



Minutes of **163rd OCC Meeting**

Date: 04.12.2019
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

Eastern Regional Power Committee

Minutes of 163rd OCC Meeting held on 15th November, 2019 at Puri, Odisha

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

Item no. 1: Confirmation of minutes of 162nd OCC meeting of ERPC held on 22.10.2019

The minutes of 162nd OCC meeting were uploaded in ERPC website and circulated vide letter dated 05.11.2019 to all the constituents.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 162nd OCC meeting.

PART A : ER GRID PERFORMANCE

Item no. A1: ER Grid performance during October, 2019

The average consumption of Eastern Region for October - 2019 was 399 Mu. Eastern Region energy consumption reached a monthly maximum of 437 Mu on 18th October - 2019. Total Export schedule of Eastern region for October - 2019 was 2186.5 Mu, whereas actual export was 2029 Mu.

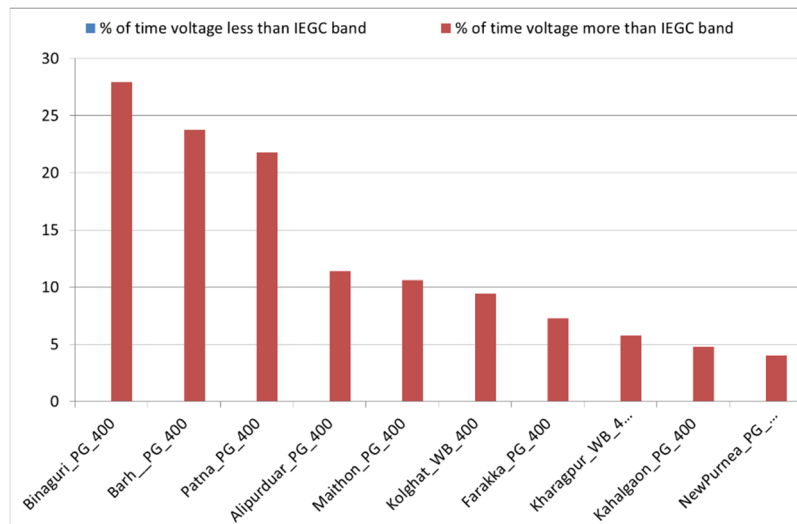
ERLDC may present the performance of Eastern Regional Grid covering the followings:

- 1. Frequency profile**
- 2. Over drawal/under injection by ER Entities**
- 3. Performance of Hydro Power Stations during peak hours**
- 4. Performance of ISGS during RRAS**
- 5. Reactive Power performance of Generators**
- 6. Restricted Governor /Free Governor Mode Operation of generators in ER**
- 7. Over Voltage issue in ER substations**

On the onset of winter, reduced demand in Eastern Region resulted reduction in loading of various 400 kV and 765 kV lines. As a result, voltage at various 400 and 765 kV substations has been increased. As per ERLDC SCADA data, overvoltage has been observed in 400 kV buses at Binaguri, Barh, Patna, Alipurduar, Maithon, Kolaghat, Farakka, Kharagpur, Kahalgaon and New Pura for the month of October 2019 as shown below:

As a precautionary measurement, following measures may be taken to deal with high voltage problem.

1. Planned outage of B/R and switchable L/R may be prohibited till February 2020.
2. Generating units may be advised to absorb reactive power during high voltage condition as per their reactive power injection/absorb capability limit. As per ERLDC SCADA data, reactive power absorption was not satisfactory for Barh, Kolaghat and Sagardighi.
3. Idle charging of long EHV transmission line may be avoided in high voltage condition.



Member may discuss.

Deliberation in the meeting

ERLDC presented the performance of the Eastern Regional Grid during October 2019.

ERLDC presented a detailed analysis of the drawl pattern of the Eastern Regional constituents. It emerged from the presentation that DVC had overdrawn from the Grid for significant times. DVC informed that due to coal shortage they could not generate and were compelled to overdraw from Grid to meet the demand.

OCC advised DVC to plan their availability according to the demand and advised to purchase power from market, if necessary.

ERLDC informed that NTPC Farakka, GMR and Bhutan are now generating as per the schedule.

ERLDC informed that high voltage had been observed at Binaguri, Patna and Barh 400kV Buses. ERLDC added that the reactive power performance of Barh STPS is not satisfactory during high voltage. The performance can be improved as the margin is available for absorbing more VAR during high voltage.

NTPC assured that they will take necessary action to improve the performance of Barh STPS.

OCC decided to review the reactive power performance of Barh STPS in next OCC Meeting.

Item no. A2: Oscillation at Mangedchu Power Plant on 15-10-19

On 15th Oct 2019, Low frequency oscillation of 0.016 Hz was observed in the Mangedchu Power plant. The Oscillation (Fluctuation) has started at 13:38 hrs and ended at 15:01 hrs and then again started at 17:12 hrs and ended at 17:45 hrs. The frequency indicates that the oscillation is probably due to Governor issue as such low frequency indicates issue with governing system. The associated PMU and SCADA snapshot is attached.

Bhutan NLDC and Mangdechu Power plant may kindly provide the following details :

1. Reason for severe oscillation observed at the power plant
2. Governor tuning status

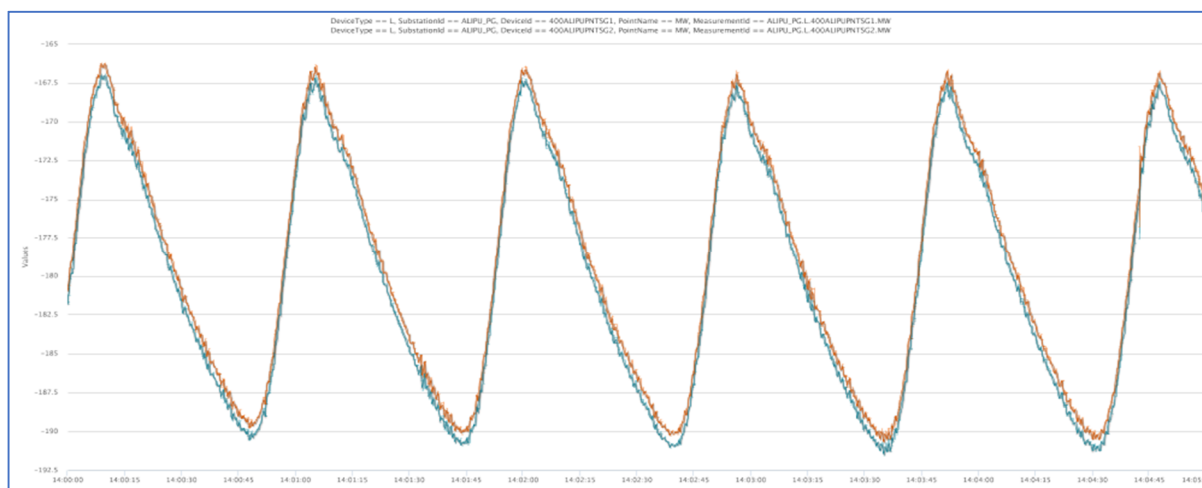


Fig : PMU plot for Active power of 400 kV Alipurduar-Mangdechuktu ckt (Puatsangchuktu ckt) from Alipurduar end

Deliberation in the meeting

Bhutan representatives informed that they are analyzing the reason for severe oscillation observed at the power plant.

Citing the past experience, ERLDC explained that these kind of low frequency oscillations might be appearing due Governor controller problem of Mangdechuktu units.

OCC advised Bhutan NLDC and Mangdechuktu to analyze the disturbance and take preventive measures to avoid such kind of oscillations in future.

Item no. A3: Pan India Oscillation on 28-10-19

A widespread oscillation was observed at 19:52 hrs on 28-10-2019 Pan India. Based on PMU data, Maximum oscillation is observed in near ER-NER boundary (Muzaffarpur, Kisangani, Binaguri, Alipurduar, Rangpo, Teesta 3, Bongaigaon, Agartala, Nehu). Mode of low frequency oscillation was 0.52 Hz and it has low damping in tune of 0.4 % (Snapshot of Oscillation Monitoring engine attached). The source of oscillation could not be identified so far.

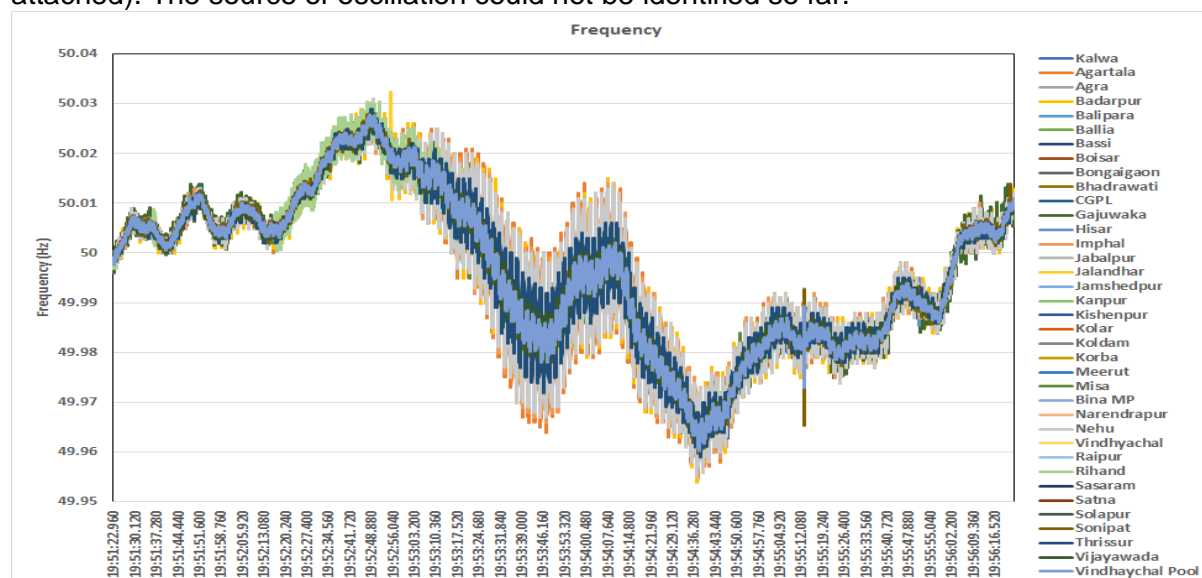


Figure : All India Frequency Data from PMU indicating Pan India Oscillation with high Magnitude at ER-NER boundary buses.

All Generating Power Plant may kindly intimate :

1. Whether any issue observed or any controller mal-function in any of the power plant during the period ?
2. PSS tuning to be taken up by all the power plants (Tuning Plans to be submitted in line with IEGC and CEA/CERC regulation)

Deliberation in the meeting

ERLDC informed that the source of the oscillations could not be identified. ERLDC requested all the power plants in Sikkim and Bhutan to analyze the unit side data for 19:52 hrs on 28-10-2019.

OCC advised the concerned power utilities to submit a report, if any oscillations were observed from any particular unit so that necessary action plan could be decided to avoid such oscillations in future.

PART B: ITEMS FOR DISCUSSION

Item No. B.1: Presentation on latest technology in transmission augmentation by Sterlite Power

Sterlite power vide letter dated 25th October 2019 informed that they had taken up several complex projects of Transmission corridor Upgrading/ Upgrading with the latest technology minimizing the impact of "Time, Space & Money" for reputed utilities in India and globally.

They had implemented several challenging upgrading and upgrading projects for various utility across the country. They have been in constant touch with Projects, Planning and the O&M team in various utilities for identifying pain areas in transmission line augmentation in and across the country. They discussed at length about the latest technologies in power conductors as well as solutions in the area of upgrading and upgradation of lines along with mitigation road map of power congestion challenges.

Sterlite requested for a slot to share their experience in this forum.

Sterlite may give a presentation.

Deliberation in the meeting

Sterlite power gave a detailed presentation on several upgrading and upgrading projects elaborating procedure developed for live line reconductoring, dynamic line rating to enhance line loading, Smart wire, tower design etc.

Presentation was appreciated by OCC members.

Item No. B.2: Outage of important transmission lines

1. 400 kV Kishenganj-Patna D/C lines:

In 162nd OCC, Powergrid informed that one circuit of 400 kV Kishenganj-Patna D/C line would be restored through ERS by December 2019. Powergrid added that permanent restoration of both the circuits of 400 kV Kishenganj-Patna D/C lines would be completed by March 2020.

MS, ERPC submitted that Powergrid had repeatedly changed their schedule of restoration of the line. He advised Powergrid to give a report on restoration schedule committed till date in chronological order along with the reason for changing the scheduled dates.

He added that a Committee would visit the site once again in 2nd week of November 2019 to assess the situation.

Deliberation in the meeting

Powergrid informed that both circuits of 400 kV Kishenganj-Patna D/C line would be restored through ERS by December 2019. Powergrid added that permanent restoration of both the circuits of 400 kV Kishenganj-Patna D/C lines would be completed by March 2020.

2. 400 kV Purnea-Biharshariff D/c lines:

In 161st OCC, ENCIL informed that they were planning for the permanent restoration of the line using special high-performance conductor (HPC with ACCC conductor) between tower AP46/9A and AP47/1. 400 kV Purnea-Biharshariff D/c would be restored by end of November 2019.

In 162nd OCC, ENICL informed that 400 kV Purnea-Biharshariff D/c would be restored by 30th November 2019.

MS, ERPC submitted that ENICL had repeatedly changed their schedule of restoration of the line. He advised ENICL to give a report on restoration schedule committed till date in chronological order along with the reason for changing the scheduled dates.

He added that a Committee would visit the site once again in 2nd week of November 2019 to assess the situation.

Deliberation in the meeting

ENICL informed that 400 kV Purnea-Biharshariff D/c would be restored by 30th November 2019.

3. 400 kV Barh-Motihari D/C and 400 kV Barh-Gorahkpur D/C lines

In 161st OCC, ERLDC informed that 400 KV Gorahkpur –Motihari(DMTCL) –D/C were out since 13/08/2019 on tower collapse at LOC 27/0 and 400 KV Barh–Motihari(DMTCL) –D/C were out since 04/09/2019 on tower collapse at LOC 26/0.

After detailed deliberation, it was emerged that one circuit of 400 KV Barh–Motihari(DMTCL) –D/C line could be restored as 400 KV Barh–Motihari(DMTCL) line and other circuit could be directly connected to Gorahkpur as 400 KV Barh-Gorahkpur line so that Barh STPS generation could be evacuated safely.

Subsequently it has been reported that on 7th Oct 2019 tower no 25/5 of Motihari-Barh got collapsed due to which temporary restoration of 400kV Barh-Motihari line as planned, now seems in-feasible.

Under the circumstances POWERGRID is requested to furnish a detailed plan for restoration of 400kV Barh – Gorahkpur D/C (by passing the LILO point) on urgent basis to maintain reliability of ER – NR inter regional corridor and safe evacuation of Barh STPS power.

Restoration plan submitted by DMTCL as follows:

Activity	Start Date	End Date	Days
Design for foundation including all studies	Initiated	30-Sep-19	Completed
Vendor for foundation work	Initiated	15-Nov -19	Final Negotiation
Access road preparation [#] & Mobilization	15-Nov-19	15-Dec-19	
Foundation Work completion (Motihari- Gorahkpur -3 Foundations)	15-Dec-19	30-April -20	120
Tower Erection (3 tower erection)	5-May-20	20-June-20	45
Foundation Work completion (Motihari- Barh – 3 foundations)	25-Jan-20	25-May-20	120
Tower Erection (3 tower erection)	30-May-20	15-July-20	45
Stringing (Motihari- Gorahkpur) 2.8 kms	21-June-20	31-July-20	40

Stringing* (Motihari- Barh) 2.7 kms	16-July-20	25-Aug-20	40
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Note:

1. Above Schedule is subject to safe and favorable working conditions especially water depth in river; any changes from the above shall be intimated to ERPC and ERLDC
2. # Access road preparation and readiness is very critical for mobilization of Hydraulic rigs
3. Support from RLDC required for ensuring that the Motihari SS (which is Available) is back charged on periodic basis to ensure that there is no need for refiltration and resulting delays once the lines are ready for commissioning

Members may update.

Deliberation in the meeting

DMTCL informed that the restoration work would start from 15th December 2019 after completion of approach road for carrying the construction material and mobilization of gangs.

DMTCL added that restoration of 400 kV Barh-Motihari D/C line would take five months and restoration of 400 kV Motihari -Gorahpur D/C line would take six months.

OCC agreed for charging of elements at Motihari S/s on periodic basis. OCC advised DMTCL to interact with ERLDC and Bihar for necessary charging code.

OCC advised Powergrid to make direct connectivity i.e. 400 kV Barh- Gorahpur D/C line, till restoration of the LILO portion of Motihari.

Powergrid agreed to make direct connectivity with Twin Moose conductor but DMTCL has to do the necessary destringing of the conductor of the LILO section with the original line to enable PGCIL to establish the direct connectivity.

OCC advised DMTCL to complete the destringing work at the earliest so that Powergrid could start the bypass arrangement.

Bihar informed that they are facing severe power shortage at Motihari due to outage of above lines and requested DMTCL to accelerate the restoration work. Bihar requested DMTCL to complete the restoration work before summer.

OCC referred the issue to 42nd TCC Meeting.

OCC advised DMTCL to attend 42nd TCC Meeting to be held at Port Blair on 12th December 2019.

Item No. B.3: Data for preparation Load Generation Balance Report (LGBR) of ER for the year 2020-21

As per the IEGC, RPC Secretariat is responsible for finalization of the Annual Load Generation Balance Report (LGBR) for Peak as well as Off-peak scenarios and the annual outage plan for the respective region

To facilitate the preparation of LGBR of Eastern Region by ERPC Secretariat within the schedule period, the following data/information for the year **2020-21** in respect of the constituents/utilities of Eastern Region is urgently required:

- i) The unit wise and station wise monthly energy generation proposed from existing units during 2020-21 (thermal/hydro/RES).

- ii) Annual maintenance programme for each of the generating units (thermal and hydro both).
- iii) Generating units under R&M / long outage indicating date of outage and reasons of outage and expected date of return (thermal and hydro both).
- iv) Partial and forced outage figures (in %) of generating units for the last 3 years.
- v) Month wise peak demand (MW) – restricted and unrestricted peak demand.
- vi) Month wise off-peak demand (MW).
- vii) Month wise energy requirement (in MU).
- viii) Month wise & source wise power (both MU & MW) purchase and/or sale plan.
- ix) Schedule of commissioning of new generating units during 2020-21 and unit-wise monthly generation programme (in MU).
- x) Allocation of power from new generating units.
- xi) Month wise and annual planned outage of transmission system (Transmission lines 220kV and above / ICTs / Reactors/ other elements).

Information may please also be submitted in the form of soft copy through email (mail ID: **mserpc-power@nic.in / erpcjha@yahoo.co.in**).

In 161st OCC, all the utilities were advised to plan the load and generation properly for peak & off-peak of the year 2020-21 and submit the plan to ERPC.

NTPC requested to decide off peak months for better planning of their unit shutdown.

Based on the past few years data demand is less during November to March.

OCC advised NTPC to plan the overhauling of their units accordingly.

Till date, the data had been received from CESC, NHPC, GMR, MPL, OHPC, WBPDC, Jharkhand, Bhutan Tala, CHPS and KHPS. The data is yet to be received from following constituents:

- BSPHCL
- OPTCL
- NTPC: FSTPP, KhSTPS, TSTPS, TTPS, MTPS-II, BRBCL, NSTPS and Darlipalli
- APNRL
- JITPL
- Sikkim
- DVC: Details of demand
- Mangdichu HPS, Bhutan

The LGBR Meeting for preparation of draft LGBR for 2020-21 is scheduled to be held at 11:00 hrs on 19th December 2019.

Members may furnish the pending data.

Deliberation in the meeting

OPTCL and OHPC submitted the relevant details in the meeting.

All the other constituents agreed submit the data within a week.

House was informed that the LGBR Meeting for preparation of draft LGBR for 2020-21 is scheduled to be held at ERPC, Kolkata in December 2019.

OCC advised all the constituents to attend the meeting for fruitful discussion in the meeting.

Item No. B.4: Declaration of high demand / low demand season for 2020-21--ERLDC

Regulation 42 of CERC (Terms and Conditions of Tariff) Regulations, 2019, pertaining to computation and payment of capacity charge for thermal generating stations, contains the following provisions:

“The capacity charge shall be recovered under two segments of the year, i.e. High Demand Season (period of three months) and Low Demand Season (period of remaining nine months), and within each season in two parts viz., Capacity Charge for Peak Hours of the month and Capacity Charge for Off Peak Hours of the month”

“The number of hours of “Peak” and “Off-Peak” periods during a day shall be four and twenty respectively. The hours of Peak and Off-Peak periods during a day shall be declared by the concerned RLDC at least a week in advance. The High Demand Season (period of three months, consecutive or otherwise) and Low Demand Season (period of remaining nine months, consecutive or otherwise) in a region shall be declared by the concerned RLDC, at least six months in advance:

Provided that RLDC, after duly considering the comments of the concerned stakeholders, shall declare Peak Hours and High Demand Season in such a way as to coincide with the majority of the Peak Hours and High Demand Season of the region to the maximum extent possible”

An exercise has been done for identification of high demand season for Eastern Region for 2016-17, 2017-18, 2018-19 and 2019-20 (as per draft LGBR for 2019-20). The months with the highest net energy met in Eastern Region are as below:

Year	Months with highest net energy met
2016-17	April, July, August
2017-18	September, March, August
2018-19	August, July, June
2019-20 (LGBR)	August, September, July

Based on the detailed analysis, it is observed that net energy met by Eastern Region is high in the months of July, August and September. **Therefore, the months of July, August and September are selected as high demand season for the year of 2020-21 for the Eastern Regional Grid** and same has been posted in ERLDC's website as well as communicated to all SLDCs vide letter no ERLDC/SO/148-Op.Cor./2595-2602 dated 01st October 2019. As no comments have been received from any constituent till date, so July, August and September are selected as high demand season for the year of 2020-21 for Eastern Region.

In 162nd OCC, ERLDC submitted that an exercise has been done for identification of high demand season for Eastern Region for 2016-17, 2017-18, 2018-19 and 2019-20 (as per draft LGBR for 2019-20). Based on the detailed analysis, it is observed that net energy met by Eastern Region is high in the months of July, August and September. Therefore, the months of July, August and September are selected as high demand season for the year of 2020-21 for the Eastern Regional Grid and the same has been posted in ERLDC's website as well as communicated to all SLDCs vide letter no ERLDC/SO/148-Op.Cor./2595-2602 dated 01st October 2019. As no comments have been received from any constituent till date, so July, August and September are selected as high demand season for the year of 2020-21 for Eastern Region.

ERLDC clarified that peak (Max 4 hours) and off-peak hours (rest 20 hours) can be declared 7 days in advance.

ERLDC added that if a generating station's major share allocation is in the other region, that region's demand pattern has to be considered by the station for its availability determination.

MS, ERPC submitted that high demand/low demand seasons are based on Regional demand pattern rather than constituent wise demand pattern. If any constituent has any fruitful suggestions, it can be forwarded to ERLDC by 31st October 2019. But the final decision in this regard will be taken by ERLDC.

Thereafter, ERLDC informed that DVC and West Bengal have communicated their own seasonal demand patterns. However, based on analysis of demand data for last three years, it is observed that Eastern Region as a whole has maximum energy consumption during the period July to September, as already indicated earlier. Therefore **July, August and September** would be considered as the high demand season for the year 2020-21.

Members may confirm.

Deliberation in the meeting

*After detail deliberation, OCC confirmed **July, August and September** as the high demand season for the year 2020-21.*

Item No. B.5: Auxiliary power consumption by Powergrid Substations--GRIDCO

As per decision of Special meeting on this issue held at ERPC on 10.07.2018, drawal of auxiliary power through tertiary winding by Powergrid substations shall be treated as drawal by Powergrid from the DISCOM (s). For this, Powergrid shall approach the concerned DISCOM(s) and shall complete all the necessary formalities to become a consumer of the concerned DISCOM.

Powergrid is not becoming the consumer of DISCOM Utility as a result of which, GRIDCO/DISCOM(s) are unable to realize the revenue from Powergrid, where as GRIDCO is paying for the said quantum of energy consumed by Powergrid since October, 2017.

This issue has already been discussed in the monthly Power System Operational Co-ordination Committee (PSOC) meeting convened by SLDC, Odisha several times. Powergrid did not attend these meetings. DISCOMs stated that they are not receiving proper response from the Powergrid to regularize the consumer issue.

In 161st OCC, Powergrid informed that Odisha DISCOMs are charging for registration and security fees. Powergrid observed that these fees are not payable by Powergrid as Discoms don't have to construct any infrastructure for this power. In other states, Powergrid had not paid these charges.

GRIDCO informed that DISCOMs were raising the bills as per the OERC regulations.

After detailed deliberation, it was decided that the issue would be discussed with DISCOMs in Odisha in November 2019 OCC meeting wherein the Discoms of Odisha would be invited to attend.

Members may discuss.

Deliberation in the meeting

Powergrid informed that DISCOMS (WESCO & CESU) are asking POWERGRID to pay for the Security Deposit, Maximum Demand charges and Meter rent etc. Powergrid stressed that, as the entire infrastructure for auxiliary power consumption through tertiary was provided by POWERGRID only and not by the DISCOMs, these charges are not applicable in this case. Powergrid further informed that they are not paying such charges for other states.

DISCOMs informed that they are requesting for the payment of Security Deposit, Maximum Demand charges and Meter rent etc. in line with the OERC regulations.

DISCOMs informed that they would not have any objection in case OERC allows any exemption to Powergrid in this matter.

After detailed deliberation, OCC advised Powergrid to file a petition before OERC for exemption of Security Deposit, Maximum Demand charges and Meter rent etc.

Item No. B.6: Facilitating Soot Blowing Operation at TSTPS--NTPC

NTPC informed that Unit#I of TSTPS tripped due to sudden dislodging of ash. As the unit was running at technical minimum because of low SG, soot blowing could not be carried out to dislodge the accumulated ash. It is to be noted that, soot blowing in Stage-1 units are to be done in every shift to control dislodge the accumulated ash due to horizontal design of regenerative heaters. As the units are running at technical minimum load for longer duration, soot blowing could not be carried .but thereby increasing the probability of unit tripping.

A Minimum load of 400MW /unit is required to be maintained during the Operation of wall blowers and long retractable soot blowers to prevent disturbance in the furnace and improve the reliability. Therefore, station requires a schedule of 750MW for Stage-1 Units at least for a period of 6 hours daily to carryout soot-blowing Operation.

Members may discuss.

Deliberation in the meeting

NTPC informed that boiler design of TSTPS Stage-I units is such that soot blowing is to be done in every shift to dislodge the accumulated ash and it is not possible when the units run at technical minimum. NTPC requested the ER beneficiaries to schedule at least 750 MW from TSTPS Stage-I for 2 hours in every shift.

Beneficiaries of TSTPS Stage-I present in the meeting informed that they would try to accommodate the request of TSTPS but could not make any firm commitment in this respect.

OCC suggested that NLDC should explore the possibility of addressing the issue of maintaining schedule above technical minimum level TSTPS Stage-I continuously for certain duration in every shift technically through incorporation of necessary changes in the programming logic of SCED.

OCC advised NTPC to communicate their issue and requirement in detail to ERLDC and ERPC so that the matter could be taken up with NLDC for necessary implementation.

Item No. B.7: Implementation of Automatic Generation Control in Eastern Region--ERLDC

In compliance to CERC's direction in order dated 06/12/2017 in petition no 79/RC/2017, AGC was commissioned in NTPC Barh on 01st August 2019 and operationalized since 23rd August, 2019.

Vide order dated 28th August 2019, CERC in Petition No.: 319/RC/2018 directed that all the ISGS stations whose tariff is determined or adopted by CERC shall be AGC-enabled and the ancillary services including secondary control through AGC be implemented as per the following direction:

- I. All thermal ISGS stations with installed capacity of 200 MW and above and all hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC are directed to install equipment at the unit control rooms for transferring the required data for AGC as per the requirement to be notified by NLDC. NLDC shall notify the said requirements within one month of this order.
- II. All such ISGS stations whose tariff is determined or adopted by CERC shall have communication from the nearest wide band node to the RTU in the unit control room.
- III. The Central Transmission Utility (CTU) is directed to have communication availability from NLDC/ RLDCs to the nearest wide band node/ switchyard for the generating stations in a redundant and alternate path ensuring route diversity and dual communication.
- IV. The NLDC is also directed to commission the required communication infrastructure.

- V. The expenditure as a result of compliance of the above directions may be claimed as per relevant regulations or provisions of the PPA.
- VI. The NLDC is directed to monitor implementation of the above directions so that all the ISGS stations whose tariff is determined or adopted by CERC are AGC-enabled within six months of this order.
- VII. The framework regarding compensation for AGC support and deviation charges as stipulated in the Commission's Order in Petition no. 79/RC/2017 dated 06.12.2017 shall apply to the five pilot projects as also to other ISGS as and when they are AGC enabled. This arrangement shall remain in place till the relevant regulations inter alia on compensation for AGC services are framed by the Commission.
- VIII. NLDC/RLDCs are allowed to operate the AGC system for enabling the signals to the power plants at the earliest.
- IX. All new thermal ISGS stations with installed capacity of 200 MW and above and hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC shall mandatorily have the capability to provide AGC support.

In 161st OCC, all the ISGS stations were advised to implement the AGC within 6 months as per the above CERC order.

In 162nd OCC, WBPDCCL submitted that Bakreswar TPP is planning to implement AGC but there is no clarity on the source from where to receive the AGC control signal (from SLDC/ERLDC). This aspect needed to be clarified first.

In the meeting, it was clarified that AGC signal for intra-state generating stations would be generated by the concerned SLDC and the relevant communication path is to be established between SLDC to plant. For ISGS stations, the AGC signal would be sent from NLDC.

OCC advised SLDC, WB to establish the required hardware for generating AGC signal at SLDC.

DVC submitted the plan for implementation of AGC at Mejia unit#8 as follows:

- Finalization of technical specification, vendors and estimation: 30th November 2019
- NIT 31st January 2020
- Order placement 30th March 2020
- Commissioning of AGC 31st July 2020

OPGC and SLDC, Odisha agreed to submit their plan by 1st week of November 2019.

All concerned plants may please ensure taking necessary action for arranging the communication (through redundant and alternate paths) from the existing nearest wideband communication node to their unit control rooms through two fiber optic cables, in coordination with CTU. It may please be noted that all the ISGS stations whose tariff is determined by or adopted by CERC should be AGC-enabled before 28th February 2020, as per order of CERC.

Members may update.

Deliberation in the meeting

SLDC, WB representative was not present in the meeting.

OPGC and SLDC, Odisha were advised to formulate the plan jointly for implementation of AGC. OCC advised them to submit the schedule of implementation of AGC to ERPC and ERLDC within a week.

All SLDCs and their respective state sector generators were advised to visit Barh STPS as well as to NLDC to have a first-hand knowledge on the implementation and functioning of AGC at control centre level as well as at generating station level.

NHPC and NTPC informed that they are in process of implementation of AGC at their stations in coordination with NLDC. The technical specifications have been prepared.

Item No. B.8: Testing and Calibration of Special type Energy Meter--ERLDC

Availability Based Tariff, Interface Meters (Special Energy Meters) have been installed by CTU at the points of interconnection with Inter-State Transmission System (ISTS) for the purpose of energy accounting and billing. As per Central Electricity Authority (CEA) notification no. 502/70/CEA/DP & D dated 17.03.2006, all interface meters shall have to be tested at least once in five years using NABL accredited mobile laboratory or at any accredited laboratory. In this regard Clause 18(1) (b) of CEA (Installation and Operation of Meters) Regulations, 2006 state that:

Quote.....

All interface meters shall be tested at least once in five years. These meters shall also be tested whenever the energy and other quantities recorded by the meter are abnormal or inconsistent with electrically adjacent meters. Whenever there is unreasonable difference between the quantity recorded by interface meter and the corresponding value monitored at the billing center via communication network, the communication system and terminal equipment shall be tested and rectified. The meters may be tested using NABL accredited mobile laboratory or at any accredited laboratory and recalibrated if required at manufacturer's works.

.....Unquote

Presently, POWERGRID have installed about 1310 nos. of Special Energy meters of 0.2 class accuracy in 765/400/220/132kV substations at about 189nos of locations in Eastern Region covering states of Orissa, West Bengal, Sikkim, Bihar and Jharkhand.

Out of 1310 no of meters installed in ER, around 768 meters (all L&T make) at 157 locations are more than five years old. Moreover Testing and calibration of around 307 Interface meters in ER was last carried out in year 2013 i.e more than 6 years ago. A list of 140 no of meters which are severely drifted in time is already communicated to POWERGRID for replacement and accordingly, replacement work has started. In view of the above, remaining 628 meters may be tested and calibrated as per the provision of aforesaid regulation. Further Time correction of meters of drifted meters may also be done (under testing and calibration).

In 162nd OCC, Powergrid submitted that out of 768 L&T meters, 140 would be removed from service by November 2019. Testing will be done for the remaining meters and the detailed plan for the same including cost of testing would be submitted in the upcoming OCC.

Powergrid clarified that in case of any abnormal results found during the testing, those L&T meters would be replaced by Genus meters and the defective L&T meters would be sent for calibration.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that more than 100 defective meters have already been replaced. Further, they have received the offer of 68 Lakhs (approx.) for testing and calibration of the 628 meters.

OCC referred to CCM for further deliberation.

Item No. B.9: Up gradation proposal of CTS Sub-stations (Malda, Dalkhola, Siliguri & Birpara) under ER-II--Powergrid

In all four Substations of CTS, control & protection system was supplied by M/S. UE, which is completely obsolete from market and at present there is no support or spare available for the same

make relay. As such it is very much prudent to change the entire control & protection panels to increase the reliability.

All CTS S/S has crossed useful life of 25 Years (All above mentioned S/S are commissioned in the year 1986-87) as per CERC norms. Due to ageing many bit items are replaced time and again but as a considerable time has crossed a major revamp are required, mainly in C&R panels due to age old technology, for all above stations for maintaining reliability in the system. Accordingly a detailed investigation and probabilities are checked by internal teams of POWERGRID involving engineering and other concerned departments.

For Birpara & Siliguri, already 132 KV systems are converted to GIS and no augmentation is required. However for both stations, although outdoor equipment's are changed in different up gradation scheme, original C&R panels are yet to be replaced. For both stations distributed control (Kiosk based control) / De-centralized SCADA envisaged, without changing out door equipment's. Cost involvement for both stations in this method will be approx. 5.0 Crore each.

For Dalkhola, as it is switching station, and existing control room has got enough place for housing new panels, centralised SCADA with only new relay panels are envisaged. However, some old equipment's also required to be replaced like CB, Isolators etc. Cost involvement for Dalkhola up gradation will be approx. 10.5 Crore.

For Malda S/S, 132 KV is already approved for conversion in GIS. However, the existing switching scheme for 400kV & 220kV Switchyards is DMT type and continuously in operations since 1986. Although the present practice is to have one & half CB scheme but due to space constraints, DMT scheme is in place and it is very known factor that maintenance of Pantograph isolators are tedious and also require bus shut down for any maintenance. Again, any bus bar protection operation in DMT will result element outage which may affect reliable operation.

Accordingly there are 03 probable solutions are envisaged for Malda S/S:-

- A. Complete conversion of existing 400 KV & 220 KV AIS to GIS with conversion of DMT scheme to 1½ CB (At 400 KV)- Cost involvement will be around 80.0 Crores. This option will enable space for installation of another 400/220 KV ICT & Lines (02 more). Also it will increase reliability as per connectivity.
- B. Conversion of 400 KV AIS to GIS with conversion of DMT scheme to 1½ CB & implementing distributed control for 220 KV- Cost involvements will be around 64.0 Crores.
- C. Complete conversion of existing 400 KV & 220 KV AIS to Distributed Control AIS system (De-centralised SCADA)- In this method scheme will be remain DMT for 400 KV and only existing C&R panels will be replaced by distributed control (Kiosk method). Cost for this method will be around 19.5 Crores.

As this all four S/S are quite important in terms of Eastern Grid & existing C&R panels and schemes are really old, it require revamp.

Members may please discuss.

Deliberation in the meeting

Powergrid informed that the substations were commissioned in around 1986 and needed to be upgraded.

Powergrid ER-I informed that some old substation in ER-I also needed to be upgraded.

Member Secretary, ERPC advised Powergrid to send the details to ERPC and advised to give a detailed presentation in 42nd TCC Meeting for detailed deliberation.

OCC referred the issue to 42nd TCC Meeting for further deliberation.

Item No. B.10: Issue of trial operation/completion certificate by ERLDC for Alipurduar-Punasangchu OPGW link--Powergrid

The OPGW work in Alipurduar-Punasangchu link (64 Km) along with communication equipment was completed for India Portion on 28.03.2019. POWERGRID requested ERLDC to issue Trial Operation Certificate/Completion certificate for India Portion of Alipurduar-Punasangchu link. ERLDC vide their letter dtd 24.09.2019 intimated that the certificate can be issued after transfer of data & voice through this link. But the work is completed by POWERGRID for Indian Portion (with transmission line) and the link could not be established due to pending work in Bhutan side. Accordingly it is requested to issue the trial operation/completion certificate by ERLDC for Alipurduar-Punasangchu link (India Portion).

Members may discuss

Deliberation in the meeting

OCC opined that the issue is genuine and the trial operation certificate may be issued in this case.

ERLDC informed that since it is an international connectivity the trial operation certificate shall be given by NLDC. However, ERLDC agreed to pursue with NLDC.

Item No. B.11: Non-commissioning of PMUs under URTDSM System--Powergrid

Under URTDSM project, 12 nos. PMUs could not be commissioned due to various reason as mentioned below:

- a. Bankruptcy/admin. issue : 2 PMUs (IPPs - Monnet & IndBharat)
- b. Non-availability of comn link : 8 PMUs (GMR IPP & JITPL IPP)
: 2 PMUs at Tenughat
- c. Substation not ready : 3 PMU at Patratu

In 1st TeST meeting held on 24.10.2019, the issue was discussed and POWERGRID requested for short-closing of the pending erection/commissioning activities of PMU in above sites.

As there is no change in status even after long period of waiting, pending completion of above, POWERGRID may be given go-ahead for submitting tariff petition based on the supply and works carried out in actual for the above-mentioned 12 nos. PMUs at 06 nos. sites.

Members may discuss.

Deliberation in the meeting

It was informed that the issue of communication links for GMR, JITPL and Tenughat is being discussed in TeST meeting.

For other PMUs, OCC advised to keep the PMUs as spare wherever it is accessible.

Item No. B.12: Sabotage of towers of 800kV HVDC Biswanath Chariali-Agra Transmission Line in Distt. Kishanganj--Powergrid

In ± 800 kV HVDC Biswanath chariali -Agra Transmission line all four Legs and main bracing members of Tower Loc. No. 1619 (A+O), and 1618 (C+O) had been cut by criminals near Village - Ratua, Block- Potia, P.S- Paharkatta , Dist- Kishanganj. These tower locations have become vulnerable and may collapse any time resulting into huge national loss.

For rectification of the said tower, the line need to be shifted first to ERS towers and thereafter after rectification of damaged towers shall be shifted from ERS to normal tower .For carrying out the said job , the complete shutdown of HVDC line will be required as per following:

- i) 15 days shutdown will be required for shifting of line from normal tower to ERS in the last of week of November-19 .
- ii) 10 days shutdown will be required for shifting the line from ERS to normal tower after rectification of damaged towers in last week of December.

Members may discuss

Deliberation in the meeting

It was informed that shutdown for the transmission line had been discussed in the shutdown meeting held on 13th November 2019 wherein the shutdown was allowed from 26th November 2019 to 10th December 2019.

Regarding deemed availability OCC advised Powergrid to approach NRPC and NERPC.

Item No. B.13: Permission for OPGW laying in TLDP-NJP OPGW link under Fiber Optic Expansion Project (Additional Requirement)--Powergrid

In 27th ERPC meeting, OPGW laying on TLDP-NJP was approved based on advice of NLDC. Accordingly, tendering has been carried out and work order has been placed on party by POWERGRID. Tower schedule of 220KV TLDP-NJP TL has been provided by WBSETCL. However, they are yet to confirm towards the starting of work , permission of laying OPGW on 220KV TLDP-NJP TL & nomination of WBSETCL representative to issue the PTW.

The matter was also discussed in 24th SCADA O&M held on 14.08.2019 wherein WBSETCL intimated that they will look into the matter. But till date no response received from WBSETCL. WBSETCL to extend co-ordination in line with the agreement and approvals in ERPCs.

OCC requested WBSETCL to give permission to work for laying OPGW in 220kV TLDP-NJP line at the earliest.

Members may discuss.

Deliberation in the meeting

SLDC, West Bengal and WBSETCL were not present in the meeting.

It was decided that ERPC Secretariat would write a letter to SLDC, WB.

Item No. B.14: Deemed Availability of Transformers/Reactors during changing over of hot spare in place of other unit--Powergrid

In some of the POWERGRID stations, hot spare 1-ph Transformer/Reactor were installed to cater for urgent requirement. In case of problem in any one 1-ph unit of the Transformer/reactor, we can take the hot spare into service and minimize the outage of all 3-ph units. In order keep these hot spare Transformer/Reactor healthy, they must be rotated and taken into service at least once in 4 to 6 months. Accordingly it is proposed for the following general practice of rotation of hot spare:

1. On six monthly basis, spare Transformer/Reactor shall be taken into service and one of the main Transformer/Reactor shall be taken out of service. Thereafter all Transformers/Reactors shall be rotated on six monthly basis.
2. In case of any opportunity/shutdown, spare Transformer/Reactor can be taken into service if such opportunity is available between 4 to 6 months of charging of Transformer/Reactor.

During above rotation/changeover, main Transformer/Reactor is to be taken out of service for 2-4 hrs. As the proposed rotation/changeover of hot spare Transformer/Reactor is for ensuring its healthiness at all times, it is proposed that the outage period of the rotation/changeover of hot spare Transformer/Reactor may be treated as deemed available.

Powergrid may explain.

Deliberation in the meeting

It was informed that deemed availability shall be considered as per the CERC guidelines.

Item No. B.15: Conversion of Line Reactor as Bus reactor with NGR bypass Scheme - ERLDC

A mail was circulated by ERLDC for collecting the switchability information of the Line reactors and the availability of the required NGR bypass arrangement for converting the line reactor to Bus reactor. So far following response received from the corresponding owner:

1. 400 kV Kishanganj-Darbhangra D/C at Darbhanga end (owned by ATL) – Switchable but no NGR by pass arrangement.
2. 400 kV Barh-Motihari D/C at Barh end (Owned by Barh) – Switchable but no NGR by pass arrangement.

All the other utilities are requested to submit the details at the earliest so that RLDC can do operational planning for better reactive power management.

Also, Barh and ATL are request to do necessary by pass arrangement of NGR as early as possible so that during winter season these resources could be used for maintaining better voltage profile in the grid.

Members may discuss.

Deliberation in the meeting

OCC advised all the utilities to submit the details to ERLDC and ERPC at the earliest (not later than 30/11/2019) so that ERLDC can do operational planning for better reactive power management.

OCC advised Barh and ATL to do the necessary by pass arrangement of NGR at the earliest.

Item No. B.16: Ratification of Demand and Generation for calculation of POC of Q-4 2019-20--ERLDC

The projected Demand and Generation of ER constituents to be considered in the base case for POC transmission charge and loss calculations for Q4 of FY 2019-20 is given in **Annexure-B16** comments and verification.

Members may confirm.

Deliberation in the meeting

Members noted.

Item No. B.17: Additional agenda

1. Preponement of Commissioning of following assets of ER-I: ---Powergrid

It has been planned for installation of following assets under ERSS XX & ERSS XVIII scheme before schedule date of completion (SCOD):

SI No	Name of Assets	Scheduled Completion	Anticipated DOCO
(i)	400/220 kV, 315 MVA ICT at Banka under ERSS XX	01/05/2020	28/12/2019
(ii)	400/220 kV, 315 MVA ICT at Lakhisarai under ERSS XX	01/05/2020	25/12/2019
(iii)	765kV, 80 MVAR Spare Reactor at Ranchi under ERSS XX	01/05/2020	31/03/2020
(iv)	Re-conductring of 220 kV New Purnea-Purnea line under ERSS XX	01/05/2020	25/12/2019
(v)	Conversion of 63 MVAR fixed line reactor at New Purnea end of one Ckt of New Purnea – Kishanganj 400kV D/C line to Switchable line reactor	01/05/2020	25/12/2019
(vi)	2 nos of 765 kV Line bays along-with 240 MVAR switchable line reactors at Ranchi for 765kV Ranchi-Medinipur line (under TBCB) under ERSS XVIII	01/08/2020	31/03/2020

Ahead of schedule commissioning of the above assets may kindly be agreed considering the requirement of grid.

Deliberation in the meeting

OCC agreed to consider preponement of the assets from scheduled completion date to actual commissioning date for SI no (i) to (v) considering the requirement of Grid.

OCC agreed to consider preponement of the assets from scheduled completion date to actual commissioning date the line for SI no (vi) considering the requirement of Grid.

2. Evacuation of Dikchu HEP Generation during any Transmission Constraint--Dikchu

Teesta Urja Limited (TUL) vide letter dated 23rd September 2019 informed that LILO of one circuit of 400kV D/C Teesta III-Kishanganj line at Dikchu was allowed by CERC as an interim arrangement depending upon margin available in the transmission system. TUL added that the construction of permanent evacuation path for Dikchu HEP was not yet awarded.

TUL requested ERPC Secretariat to take up the issue of construction of permanent evacuation path for Dikchu HEP with Sneha Kinetic Power Projects Pvt. Ltd. TUL also requested to ensure evacuation Teesta III HEP generation over Dikchu HEP generation during any transmission constraint.

The issue was communicated to Dikchu vide letter dated 3rd October 2019 and Dikchu was advised to attend 162nd OCC Meeting.

In 162nd OCC Meeting, Dikchu was not present in the meeting.

OCC agreed to accord higher priority to scheduling of generation from Teesta-III HEP of TUL than scheduling of generation from Dikchu in the event of any transmission constraint in ISTS corridor of Sikkim.

Members may discuss.

Deliberation in the meeting

Dikchu submitted that they did not receive the communication from ERPC. Hence they could not attend 162nd OCC Meeting.

Dikchu requested to place their views in this meeting.

OCC agreed.

Dikchu informed that 400kV Teesta III-Rangpo and 400kV Rangpo-Kishanganj lines are ISTS lines and not the dedicated transmission lines. The power flow in these lines shall be governed by CERC regulations of connectivity and regulations governing open access. Therefore the decision of OCC in prioritizing the evacuation of power from TUL might be violating CERC regulations.

Dikchu added that the connectivity was granted to Dikchu as an interim arrangement till Govt. of Sikkim make 132kV system from Dikchu to Rangpo as per CERC order.

TUL informed that the 132kV system was planned around 3 years back and construction work of 132kV bays at Dikchu power station was not yet started.

After detailed deliberation, OCC agreed to keep the decision taken in the 162nd OCC Meeting at abeyance and scrutinize the issue raised by Dikchu in light of CERC regulations.

Member Secretary, ERPC informed that the issue would be discussed once again in details with ERLDC and CTU. The details will be placed in next OCC Meeting.

Dikchu was advised give a detail schedule of construction of 132kV bays at Dikchu along with the 132kV connectivity.

PART C: ITEMS FOR UPDATE

Item no. C.1: Status of UFRs healthiness installed in Eastern Region

UFR Healthiness Certification for the month of October 2019 has been received from OPTCL, CESC, WBSETCL, DVC, BSPTCL and JUSNL.

Members may note.

Deliberation in the meeting

Members noted.

UFR Inspection Report of BSPTCL substations on 22.08.2019:

The ERPC UFR inspection group visited 132/33kV Digha, 132/33kV Mithapur and 132/33kV Gaighat substations of BSPTCL for UFR Audit on 22.08.2019. The team physically inspected the feeders which are connected with UFRs at the above sub-stations. The report of the inspection is furnished below:

Sl. No.	Name of the substations	Feeder connected with UFR	Voltage rating	Adopted UFR setting	Tested initiated frequency	UFR make
			(kV)	(Hz)	(Hz)	
1	132/33kV Digha	Pataliputra	33	49.0	49.0	AREVA Micom P127
2		Excise Colony	33	49.2	-	RMS 2H34K2
3		Digha-I	33	48.6	-	RMS 2H34K2
4		Digha-II	33	48.6	-	RMS 2H34K2
5	132/33kV Mithapur	Pesu-IV	33	48.8	48.8	AREVA Micom P142
6		Pesu-V	33	48.8	48.8	AREVA Micom P142
7	132/33kV Gaighat	Saidpur	33	48.6	48.59	SEL-351A
8		City Feeder	33	48.6	48.59	SEL-351A

The above UFR setting were tested with help of Secondary injection Kit owned by BSPTCL. During the inspection, the followings were observed:

Substation	Observation
132/33 kV Digha	For 33 kV Pataliputra feeder, the UFR is provided with direct trip wiring and the relay tripped at desired frequency. For all other three feeders, The UFR relays were not working as the relays got burned due to some DC fault in substation.
	33 kV Excise colony feeder consists of emergency loads like supply to Airport & Hospital etc.
132/33 kV Mithapur	The UFRs are provided with direct trip wiring and tripped at desired frequency.
	33 kV Pesu-V feeder was charged on no-load. It was found that the feeder was being used only in case of contingency.
132/33 kV Gaighat	The UFRs are provided with direct trip wiring and tripped at desired frequency

In 161st OCC, Bihar was advised to review the UFR feeders as per the revised system configuration and suggested to shift the UFRs to unimportant radial loads.

Bihar may explain.

Deliberation in the meeting

Bihar informed that they are in process of reviewing the UFR feeders and agreed to submit the revised list within a week.

Item no. C.2: Status of Islanding Schemes healthiness installed in Eastern Region

At present, the following islanding schemes are in service:

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

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 October, 2019 has been received from CTPS, DVC, NTPC, West Bengal, JUSNL, WBPDC and CESC.

Members may note.

Deliberation in the meeting

DVC informed that since all units of CTPS-A would be retired shortly, instead of Chandrapura TPS islanding scheme, they are planning to implement an islanding scheme with units 5 & 6 of Mejia TPS (old).

OCC advised DVC to submit the detailed draft plan of the islanding scheme to ERPC and ERLDC.

Item no. C.3: Healthiness of SPS existing in Eastern Region

The Status of healthiness certificate for October, 2019 is given below:

Sl. No.	Name of the SPS	Healthiness certificate received from	Healthiness certificate not received from
1.	Talcher HVDC	NTPC, GMR,	JITPL, Powergrid,
2.	SPS in CESC system	CESC	Nil

Members may update.

Deliberation in the meeting

Members noted.

Item no. C.4: Implementation of Automatic Demand Management Scheme (ADMS)-ERLDC

The latest status along with proposed logic as follows:

SI No	State/Utility	Logic for ADMS operation	Implementation status/target	Proposed logic (if different from under implementation logic)
1	West Bengal	F <49.7 AND deviation > 12 % or 150 MW	Implemented on 25.11.16	F <49.9 AND deviation > 12 % or 150 MW
2	DVC	F <49.7 AND deviation > 12 % or 150 MW	Implemented on 17.06.2016	
3	Bihar	F <49.7 AND deviation > 12 % or 150 MW	They would place the order to Chemtrol for implementation.	F <49.9 AND deviation > 12 % or 150 MW
4	Jharkhand	1. System Frequency < 49.9 Hz AND deviation > 12 % or 25 MW 2. System Frequency < 49.9 Hz AND deviation > 12 % or 50 MW 3. System Frequency < 49.9 Hz AND deviation > 12 % or 75 MW	In service from 21 st August 2019.	Condition 1: Block I feeders will be selected for load shedding Condition 2: Block I & II feeders will be selected for load shedding Condition 3: Block I, II & III feeders will be selected for load shedding
5	Odisha	1. System Frequency < 49.9 Hz 2. Odisha over-drawl > 150 MW 3. DISCOM over-drawl > (40 MW)	10 Months Sent for PSDF approval. It was informed that tender for the work has been floated.	Logic 2 and 3 is AND or OR, in case it is AND then ADMS may not operated when discom are in schedule but GRIDCO is overdrawing due to less generation at state embedded generators
6.	Sikkim			Sikkim informed that they have submitted a proposal to PSDF Committee for installation of OPGW cables which is under approval stage. Sikkim added that ADMS scheme would be implemented after installation of OPGW.

In 142nd OCC, it was opined that uniform logic should be implemented for all the states. OCC decided to review the logic of ADMS after implementation of the scheme by all the states.

In 161st OCC, BSPTCL informed that installation of ADMS had been completed and the testing would be done by 15th November 2019.

Members may update.

Deliberation in the meeting

BSPTCL informed that the testing of the ADMS being implemented in Bihar would be done by end of November 2019.

Item no. C.5: Review of the PSS Tuning of Generators in Eastern Region --ERLDC

On 31st January 2019, PSS Tuning Meeting was held at ERPC. All generating utilities were advised to complete the PSS tuning of their plant at earliest for improvement of damping in the grid during transients. In addition, the tuning reports have also to be submitted to ERLDC/ERPC for their validation.

In line with this ERLDC has communicated to following utilities in view of the recent oscillation observed during various events:

Generating Power Plant	Remarks	Status of Action Plan to be informed to OCC
All Units of DVC Generating Plant	Oscillation Observed at DSTPS on 24th April 2019 and other Oscillation events in the past.	DVC gave consolidated plan for its units in 162nd OCC
All Units of OPGC and OHPC, Sterlite	PSS are tuned long back and in many units PSS have not been tuned but are in service.	OPGC units—Feb 2020
Sikkim Hydro Complex (Teesta3, Teesta 5, Chujachen, Dikchu, Tashiding, Jorethang)	In view of Oscillation during the 16th April 2019 events and changes in Network configuration in Sikkim hydro Complex with augmentation of lines	Teesta3: PSS Tuned on 21-21 Oct 2019. Dikchu: To be done on 22 Nov 2019 after necessary shutdown approval. Jorethang: Jan 2020 Chujachen and Tashiding: Feb 2020 Teesta 3 : March 2020
MPL Plant	Due to Change in Network configuration during to bus splitting at Maithon.	MPL Unit-2: 14th June-2019 in the AOH. MPL Unit-1: Planned in the AOH in Jan-2020.
APNRL Plant	Oscillation with Low Damping during transient and switching observed at the plant.	APNRL will Tune in Nov 2019 as per 162nd OCC
Farakka NTPC Power Plant	With Augmentation of new lines and changes in network configuration with upcoming bus split at Kahalgaon.	PSS Tuning of Unit 6 has been done. Other units are planned in December 2019
NPJC/BRBCL/KBUNL NTPC Power Plant	The new units have been commissioned however there are no details on the PSS tuning activity in line with Indian Electricity Grid Code and CEA Grid Connectivity Standards	BRBCL has submitted PSS tuning details only for Unit 2. For other units' details to be submitted by NTPC.
GMR	Was done in 2013 and retuning is required with change in the network at Angul.	During overhauling in Nov 2019
Sterlite 4 X 600 MW	Due to network changes.	Plan not yet submitted (Orissa SLDC)

Members may update.

Deliberation in the meeting

Members updated the status as mentioned in above table.

Item no. C.6: Transfer capability determination by the states

Latest status of State ATC/TTC declared by states for the month of February-2020

Sl No	State/Utility	TTC import(MW)		RM(MW)		ATC Import (MW)		Remark
		Import	Export	Import	Export	Import	Export	
1	BSPTCL	5300	--	100	--	5200	--	Jan-20

2	JUSNL	1136	--	29	--	1107	--	Feb-20
3	DVC	1446	3358	63	50	1383	3308	Feb-20
4	OPTCL	2606	722	85	60	2521	662	Feb-20
5	WBSETCL	3811	--	400	--	3411	--	Nov-19
6	Sikkim	295	--	2.5	--	292.5	--	Dec-19

As per the “Detailed Procedure for Relieving Congestion in Real Time Operation” Following has also been mandated for monitoring of Congestion in Real Time :

1. As all SLDCs of Eastern region are now declaring ATC/TTC, so, now it would be desirable to have the display for Eastern region where ATC/TTC calculated by states will be monitored in real time with actual drawal. Status of ATC/TTC Weblinks maintained by SLDCs is given below :

SLDC	ATC/TTC Weblink
Orissa	Dynamic Link for each month (Static Location for All months ATC/TTC to be kept for easy access)
Jharkhand	Web Link to be prepared by SLDC
Sikkim	Web Link to be prepared by SLDC

2. Utility wise present status of declaration of assumptions and LGBR used for ATC/TTC calculation and constraints in arriving at the TTC/ATC value based on the available online information are as follows:

SLDC	ATC/TTC Review
West Bengal	Constraints and Load/gen Assumption needs to be mentioned
Bihar	Constraints and Load/gen Assumption needs to be mentioned
Sikkim	Constraints and Load/gen Assumption needs to be mentioned

In 162nd OCC, OCC advised all the SLDCs to provide/display the ATC/TTC figures in their respective websites along with the actual flows in their websites import / export in real time. The assumptions for TTC/ATC calculations and limiting constraint details should also be made available.

West Bengal and Bihar informed that they are placing the details of constraints and load/gen assumption details for recent months.

ERLDC may explain. Members may update.

Deliberation in the meeting

Sikkim informed that they don't have official website and agreed to submit the details to ERLDC vide mail. Jharkhand assured to provide details in their website by third week of November 2019.

Item no. C.7: Mock Black start exercises in Eastern Region – ERLDC

Mock black start date for financial year 2019-20 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, 2019	Done on 19 th July 2019	Last Week of January 2020	
2	Maithon	1 st week of June 2019	Taken up only after replacing	1st Week of February 2020	

			the governing systems of the units		
3	Rengali	2 nd week of June 2019	Done on 27 th June 2019	Last week of November 2020	
4	U. Indarvati	3 rd week of June 2019	Done on 7 th November 2019	2nd week of February 2020	
5	Subarnarekha	1 st week of October 2019	Done 20 th August 2019	1st week of January 2020	
6	Balimela	3 rd week of October 2019	Done on 17 th July 2019	1st week of March 2020	Dec 2019
7	Teesta-V	2 nd week of May 2019	27 th Nov 2019	Last week of February 2020	
8	Chuzachen	Last Week of Dec 2019		Last week of February 2020	
9	Burla	Last Week of June 2019	Done on 20 th July 2019	Last week of February 2020	December 2019
10	TLDP-III	1st Week of June 2019	November-19	2nd Week of January 2020	
11	TLDP-IV	Last Week of June 2019	December-19	1st Week of February 2020	
12	Teesta-III	Last Week of Oct 2019		First Week of March 2020	
13	Jorthang	First Week of May 2019		First Week of Feb 2020	
14	Tasheding	2nd Week of May 2019		2nd Week of Feb 2020	
15	Dikchu	Sep 2019		3rd Week of Feb 2020	

Members may update.

Deliberation in the meeting

Members updated the status as mentioned in above table.

Item no. C.8: Mock Blackstart and controlled separation exercise at Teesta III--ERLDC

As per IEGC each blackstart capable power plant needs to demonstrate its blackstart capability twice every year. Further as per the schedule the mock black start of Teesta-III is scheduled in the end of October 2019. Thus to carryout mock black start exercise with radial load of Bihar at Kishanganj and nearby substations a two steps procedure is proposed.

Step-1:- Controlled separation of one running unit at Teesta-III with loads at Kishanganj (Bihar) for formation of Island

A controlled island will be formed in first step by taking some local load at 220 kV Kishanganj (Bihar), this requires bus split arrangement at Teesta-III, 400 kV/220 kV Kishanganj (PG) and 220 kV Kishanganj(Bihar). Once island is formed, system is expected to run in islanded mode for 15-20 minutes. After Teesta-III unit will be switched off resulting in collapse of island.

Step-2:- Blackstart of one unit at Teesta-III and extension of power to Kishanganj

Then after tripping the machine blackstart needs to be initiated from DG set and after successful synchronisation of one of the unit power will be extended to the loads of already created island, the island may be operated with the loads for 15-20mins, before synchronising with grid at 400 kV Kishanganj(PG)

Teesta III is a pelton turbine so it may operate on any load. However, Minimum requirement of 20 MW has been known by telephonic conversation with station personnel.

In 162nd OCC, ERLDC informed that it is a preliminary scheme, the detailed scheme would be prepared and it will be circulated to concerned utilities. The scheme would be finalized after receiving the suggestions from concerned utilities.

Members may discuss.

Deliberation in the meeting

Bihar was advised to submit the radial load details at Kishanganj to ERLDC.

Item no. C.9: Summary of Status Update on Previous agenda items in OCC

OCC	Agenda	Decision	Status Update
152	Item No. B3: Installation of PMUs for observation of the dynamic performance of STATCOMs	Powergrid informed that M/s GE had agreed to supply and install of 4 no's PMUs for 4 STATCOMs in the Eastern Region within the quantity variation clause under the existing URTDSM Project.	In 159 th OCC Meeting Powergrid informed that the work would be completed by 15th August 2019. Powergrid informed that material supplied at Ranchi and Kishanganj were damaged. New material would be supplied by November 2019. <i>Powergrid updated that the work would be completed by December 2019.</i>
155	C.22: Collection of modeling data from Renewable as well as conventional energy generators: ERLDC	OCC advised all the constituents to submit the details of renewable power plants of 5 MW and above.	157 th OCC advised all the SLDCs to submit the details to ERPC and ERLDC. Format along with an explanation for collection of Wind and Solar Data has been shared by ERLDC to all SLDC. Bihar/ West Bengal and Orissa are having Solar Plant with more than 5 MW capacity. <i>Details received only from Odisha.</i>
156	Low frequency Oscillation at MTDC BNC-ALP-Agra	OCC Advised ERTS-2 to submit the analysis report to ERLDC/ERPC	159 th OCC Powergrid informed that the issue was referred to ABB, Sweden. The report is yet to be received from ABB.

			<i>PGCIL informed that the issue would be checked by OEM during upcoming shutdown.</i>
156	Item no. C.20: Updated Black Start and Restoration procedure of State--ERLDC	Bihar, Jharkhand, DVC, West Bengal and Orissa have submitted the updated restoration procedure.	Restoration procedure form Sikkim is yet to be received. Mail has been given by ERLDC to SLDC for early submission.
156	Item No. B.12: Status of Auto-Reclosure on Lines from Tala and Chukha Hydro Power Plant (Bhutan)	<p>DGPC informed that an Expert Committee was constituted to enable the autorecloser for transmission lines connected to Tala and Chuka hydro stations. The Committee had recommended for implementation of the autorecloser at Tala and Chuka.</p> <p>DGPC added that they are planning to implement the autorecloser scheme for the transmission lines connected at Chuka by May 2019. Based on the experience gained, they would implement the autorecloser scheme for the transmission lines connected at Tala.</p>	<p>In 159th OCC meeting DGPC informed that they are implementing autorecloser at Tala also. The A/R is implemented at Binaguri end and there have been various cases where successful A/R has occurred at Binaguri but due to no A/R attempt Tala has a blackout in June 2019. In addition, in month of Aug also many times 400 kV lines successfully reclosed from Binaguri end.</p> <p>The experience on 220 kV Chukha-Birpara in the form of successful A/R has been observed on 25th June 2019.</p> <p>DGPC has informed that after the deliberation in their group, they would be implementing the A/R at Tala by the end on August 2019.</p> <p><i>OCC advised to discuss the issue in Coordination Meeting with Bhutan.</i></p>
160 OCC	Bypassing arrangement of LILO of 400kV Lines at Angul	<p>Powergrid informed that bypass arrangement would be completed by end of August 2019.</p> <p>OPTCL informed that 2nd circuit of 400kV Meramundali-Mendhasal line would be commissioned by end of August 2019.</p>	<i>Powergrid informed that the bypassing arrangement would be completed by November 2019.</i>

Members may update.

Deliberation in the meeting

Members updated the status as mentioned in above table.

**Item no. C.10: Transmission Constraint in the 220 kV System in Eastern Region—
ERLDC**

Constituents	Constraint list	Issues based on ATC/TTC case submission by States	Action Plan by Utilities/ SLDC
West Bengal, DVC	220 kV Waria-Bidhan Nagar D/C	N-1 Contingency	
CESC, PGCIL	220 kV Shubhasgram-EMSS D/C	N-1 Contingency	
WBSETCL, PGCIL	220 kV Newtown-Rajarhat D/C	N-1 Contingency	
WBSETCL	220 kV Howrah-New-Chanditala D/C	N-1 Contingency	
DVC, PGCIL	220 kV Durgapur (PG)-Parulia D/C	N-1 Contingency	
Jharkhand, PGCIL	220 kV Hatia-Ranchi D/C	N-1 Contingency	
Bihar	220 kV Mujaffarpur-Hazipur D/C	N-1 Contingency	<p>A New 400/220/132 kV sub-station at Chhapra(2x500+2x200 MVA) has been proposed to meet the nearby growing power demand. The 220 kV connectivity of the proposed GSS as follow:-</p> <ul style="list-style-type: none"> • Chapra(new)-Amnour DCDS • Chhapra(new)-Goplaganj DCDS
Bihar	220 kV Hazipur-Amnour D/C	N-1 Contingency	
Bihar, PGCIL	220 kV Patna-Sipara T/C	N-1 Contingency	Two nos. of 400/220/132 kv Jakkanpur GSS and Naubarpur GSS are proposed in nearby area which is already approved in 13 th Plan
Bihar, PGCIL	220 kV Khagaul-Sipara S/C	Overload of 220 kV Khagaul-Sipara	Already resolved by addition of 02 more lines i.e. 220 kV Khagaul-Patna(PG) D/C (Ckt 2 &3)
Bihar	220 kV Bodhgaya-Gaya D/C	N-1 Contingency	A new 400/220/132 kV sub-station at Chandauti has been proposed with connectivity at 220 kV by LILO of both circuits of Gaya(PG)-Sonagar(new)

OCC advised all the utilities to share their short term and long term action plans to remove the

constraint to ERLDC. However till date action plan from none of the constituent is received.

Input received from BSPTCL vide letter dated 06-November-2019 are as shown above. All proposed action plans are long term in nature. Further the time line for the implementation of action plan is missing.

DVC, JUSNL, WBSETCL and CESC may update.

Deliberation in the meeting

DVC and WBSETCL agreed to submit the action plan by next month.

OCC advised other constituents to submit the action plan at the earliest.

Item no. C.11: Monitoring of Next Six-Month New Element Integration in OCC and Its Update on Monthly Basis --ERLDC

It has been observed that many elements are getting interconnected into the system and beforehand details are not available with the system operator resulting in difficulty in carrying our operational planning activity. In view of this, as a regular agenda all ISTS and ISGS/IPP to update the OCC regarding any new elements at 220 kV and above which will be integrated in next six month with the grid. For State Grid, SLDC will be submitting the details on behalf of its intrastate Generation and transmission system. The format is given below:

Transmission Elements	Agency/ Owner	Scheme (ERSS, TBCB/ Standing Committee/State	Schedule Completion	Projected Month for Completion	Issue Being Faced

In previous several OCC, Transmission licensees and SLDCs are requested to submit RLDC/RPC following details on monthly basis

- List of transmission element /generators of State and ISTS licensees synchronised in the last month.
- List of transmission element /generators expected to be synchronised during next month or in near future

Some SLDCs are submitting the list of intrastate and interstate line on regular basis, however transmission element /generators expected to be synchronised during next month or in near future is not submitted by any SLSC/Transmission licensee to RLDC/RPC.

In 162nd OCC, OCC advised all the constituents, SLDCs and ISTS licensees to submit the details the list of transmission elements / generators already synchronized / charged in the previous month as well as those expected to be commissioned in the near future (as per the format specified) to ERLDC

Members may update.

Deliberation in the meeting

OCC advised all the constituents, SLDCs and ISTS licensees to submit the details to erldcprotection@posoco.co.in as per the format.

Item no. C.12: Operationalization of 400 kV Durgapur Bus Splitting Scheme

The following decisions were taken in 161st OCC meeting:

- As suggested by ERLDC, all the ICTs at Durgapur PG shall be kept in service to meet the Puja demand.
- However, ERLDC shall take necessary decision on real time basis keeping in view the security and reliability of the grid.
- DVC shall carry out a detailed study on power flow pattern through the ICTs with present and future network condition and submit the details to ERPC and ERLDC for further deliberation.
- Separate meeting with representatives from Powergrid, CTU, DVC, WBSETCL, ERLDC and ERPC shall be convened at ERPC for further course of action.

In 162nd OCC, DVC was advised to carry out a detailed study on power flow pattern through the ICTs with the present and future network condition and submit the details to ERPC and ERLDC at the earliest for further deliberation. Thereafter, a separate meeting with representatives from Powergrid, CTU, DVC, WBSETCL, ERLDC and ERPC shall be convened at ERPC to decide further course of action for both short term and long term.

OCC decided that existing arrangement will be continued till further decision on this issue takes place in the above meeting.

Thereafter, ERLDC informed that with split bus arrangement at 400kV Durgapur it has been observed that

1. Power flow through 220kV Durgapur(PG)-Parulia(D) D/C cannot be controlled if all three 400/220kV ICTs are kept in service, along with 220kV Waria – Bidhannagar D/C
2. WBSETCL is aggrieved if 220kV Waria – Bidhannagar D/C is kept off in order to control power flow through 220kV Durgapur(PG)-Parulia(D) D/C
3. If either 400/220kV ICT-2 or ICT-3 is kept off (to control power flow through 220kV Durgapur(PG)-Parulia(D) D/C), then the other 400/220kV ICT gets heavily loaded.

In view of the above constraints experienced in real time operation, Durgapur(PG) S/Stn is now being operated without sectionalizing the 400kV buses 1 & 3 and 2 & 4 and all the three 400/220 kV ICTs are in service, parallel to each other. Further, one circuit of 220kV Waria – Bidhannagar D/C line is also in operation.

Members may update.

Deliberation in the meeting

Members noted.

Item no. C.13: 400 kV Split Bus operation of 400 kV Kahalgaon Substation --ERLDC

In the 158th OCC meeting, Bus split operation of 400 kV Kahalgaon substation has been discussed. NTPC has informed that the 400 kV Bus split is ready for operationalization in all aspects. NTPC and PGCIL have informed that the group setting for revised protection setting has been implemented w.r.t. Bus split arrangement at remote ends. OCC decided to monitor the power flows after putting the Durgapur bus splitting in service and further decision on putting the Kahalgaon bus splitting scheme in operation would be reviewed in next OCC Meeting.

The Durgapur Bus split trial has been demonstrated in 159th and 160th OCC meeting and results and power flow was presented to the members. It was observed that there is no constraint on the 400 kV network during normal bus split operation of Durgapur substation.

With these experiences of 400 kV Durgapur Bus split, it is desired that 400 kV Kahalgaon Bus split may be operationalized.

In 161st OCC, NTPC has informed that the 400 kV Bus split is ready for operationalization at 400 kV Kahalgaon. But two ICTs are to be erected at 400 kV Kahalgaon and the ICTs are yet to be delivered.

NTPC requested other constituents to spare the ICTs temporarily for an interim arrangement at 400 kV Kahalgaon.

Members may update.

Deliberation in the meeting

Constituents informed that no spare ICTs are available.

OCC advised NTPC to accelerate the erection process of new ICTs at 400 kV Kahalgaon.

Item no. C.14: Reconductoring work of 400 kV Rangpo-Binaguri D/C lines

In 162nd OCC, Powergrid informed that SPS at Rangpo is ready and it can be put in service as and when required.

Powergrid explained that reconductoring work of both 400 kV Rangpo-Binaguri D/C lines would take 1 year time approximately and they are ready to take shutdown of both the circuits from 01.11.2019.

ED, ERLDC advised Powergrid to complete the reconductoring work of one circuit by end of February 2019. He added that after February 2019, shutdown of both lines is not possible in view of the likelihood of rise in hydro generation in Sikkim.

MS, ERPC submitted that there is a need for reviewing the progress of the work by field visit. In this regard a Committee shall be formed comprising the members from ERPC Secretariat, ERLDC, WBSETCL, PGCIL, TVTPL etc. The Committee will visit the site and check the preparedness of the work. Also, periodic inspection will be done to assess the progress of the work.

Powergrid may update.

Deliberation in the meeting

Powergrid updated that the work had been started from 1st November 2019, reconductoring of 4 km of both the circuits out of 110 km line had been completed (3 km in West Bengal and 1 km in Sikkim).

OCC advised Powergrid to submit a detail schedule to ERPC and ERLDC.

PART D:: OPERATIONAL PLANNING

Item no. D.1: Anticipated power supply position during December 19

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of December 19 were prepared by ERPC Secretariat on the basis of LGBR for 2019-20 and feedback of constituents, keeping in view that the units are available for generation and expected load growth etc. is at **Annexure-D.1**.

Members may confirm.

Deliberation in the meeting

*Modified anticipated power supply position for the month of December 2019 after incorporating constituents' observations is given at **Annexure-D.1**.*

Item no. D.2: Shutdown proposal of transmission lines and generating units for the month of December 19

NTPC vide mail dated 5th November 2019 intimated that **unit 3 of FSTPS** would be under shutdown from **6th December 2019 to 31st December 2019** for overhauling.

NTPC vide mail dated 8th November 2019 informed that in view of major modification of Unit 4 Boiler, the date for shutdown has been extended from schedule date (10th November 2019) to 25.11.2019 on the request of M/s BHEL.

Therefore, **Unit4 of Barh STPS** shall be taken under shut down since **25.11.2019 at 00:00 hrs for Boiler Modification and Overhauling for 80 days**.

Dikchu vide mail dated 2nd November 2019 informed that **Dikchu H.E.P, Unit-1** will be shut down from **16th Dec' 19 to 6th Jan' 20** for annual maintenance purpose.

Shutdown for **Unit-2** will be taken for annual maintenance from **20th Jan' 20 to 10th Feb' 20**.

Generator shutdown for December 19:

System	Station	Unit	Capacity (MW)	Period		No. of Days	Reason
				From	To		
WBPDC	STPS	5	250	01.12.19	04.01.20	35	Boiler License OH
DPL	DPPS	8	250	23.12.19	31.01.20	9	BTG OH
CESC	BUDGE-BUDGE	3	250	02.12.19	19.12.19	18	Not Specified
	Titagarh TPS	3	60	12.12.19	26.12.19	15	Not Specified
		4	60	27.12.19	30.12.19	4	Not Specified
HEL	Haldia Energy Limited	1	300	05.01.20	19.01.20	15	AOH
NTPC	TSTPP-1	1	500	Last week of Dec 2019		31	AOH

ERLDC may place the list transmission line shutdown discussed on 13th November 2019 through VC.

Members may confirm.

Deliberation in the meeting

OCC approved the generator shutdown as mentioned above.

*The approved list of shutdown of transmission elements is enclosed at **Annexure-D2**.*

1. Shutdown approval and coordination for Talcher HVDC Substation--Powergrid

ERLDC intimated that all outage approval for Talcher HVDC substation of POWERGRID is to be coordinated with SRLDC. SRLDC will be the nodal agency for shutdown matter of Talcher HVDC. In the recent past there was a lot of confusion related to shutdown elements of Talcher HVDC substation. Sometimes SRLDC is also instructing to coordinate with ERLDC and not SRLDC as Talcher HVDC is physically situated in Eastern Region. Due to which there is delay in granting shutdown of elements of Talcher HVDC substations.

Hence guidelines may be issued with intimation to NLDC and SRLDC for shutdown matter of Talcher HVDC substations. So that there shall not be any ambiguity in granting approval of shutdown and issuing switch off code of elements of Talcher HVDC substation.

Powergrid may explain.

Deliberation in the meeting

ERLDC informed that they discussed the issue with NLDC and the logical way to coordinate the shutdown would be as follows:

As HVDC Talcher-Kolar bipole is an inter-regional line between Eastern and Southern region, shutdown of any element pertaining to HVDC operation viz 400kV Lines from Talcher-II - Talcher(HVDC), bays, bus, sectionaliser, HVDC poles/lines etc. should be approved in both RPCs i.e. SRPC and ERPC. However, as ownership of the entire assets related to HVDC system lies with PGCIL SR and availability of the assets is verified by SRLDC, while availing actual shutdown of any element at Talcher/Kaniha end, PGCIL ER-2 / NTPC Kaniha has to apply to SRLDC through PGCIL SR-2, as per outage planning procedure i.e on D-3, with copy to ERLDC. Similarly before availing actual shutdown of any element at Kolar end, PGCIL SR-2 has to apply to SRLDC on D-3 with copy to ERLDC through PGCIL ER-2. Further, after scrutinizing with indenting region shutdowns, the indenting RLDC may send the shutdown proposal to NLDC for the latter's decision. Then NLDC may further take up the matter with consenting RLDC for their consent/denial and accordingly approval/denial will be issued from NLDC.

Procedure for D-3 is summarised below:

Indenting Agency	Indenting RLDC	Consenting RLDC	NLDC	Remark
PGCIL-ER-2/NTPC*	ERLDC	SRLDC (through PGCIL SR-2)	Approval/Denial	Consent from Odisha must be obtained during OCC
PGCIL-SR-2	SRLDC	ERLDC (through PGCIL ER-2)	Approval/Denial	Consent from Odisha/NTPC must be obtained during OCC

*PGCIL-Odisha should send indent to PGCIL-ER2

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

(i) Thermal Generating units:

S.No	Station	Owner	Unit No	Capacity	Reason(s)	Outage Date
1	FARAKKA	NTPC	5	500	DESYNCHRONIZED ON SAFETY GROUNDS, LATER ON PUT UNDER ANNUAL OVERHAULING.	18-Oct-19
2	KHSTPP	NTPC	2	210	ANNUAL OVERHAULING	10-Nov-19
3	KOLAGHAT	WBPDC	1	210	POLLUTION CONTROL PROBLEM	10-May-18
4	CTPS	DVC	3	130	TURBINE BLADE DAMAGE	30-Jul-17
5	BARAUNI	BSPHCL	7	110	MAINTENANCE WORK	3-Nov-19
6	BUDGE BUDGE	WBPDC	2	250	ANNUAL SURVEY	10-Nov-19
7	TTPS	GRIDCO	5	110	ANNUAL OVERHAULING	9-Nov-19
8	KBUNL STG2	NTPC	1	195	Tripping of unit Auxiliary Bus	3-Nov-19
9	JITPL	JITPL	1	600	HIGH TURBINE VIBRATION	10-Nov-19
10	APNRL	APNRL	2	270	Low vacuum as GSC- control valve unable to maintained turbine gland sealing pressure in positive side even at Control valve 100% open condition	4-Nov-19
11	KOLAGHAT	WBPDC	3	210	LOW DRUM LEVEL	15-Sep-19
12	KOLAGHAT	WBPDC	2	210	ESP MAINT. WORK	2-Nov-19
13	KOLAGHAT	WBPDC	5	210	OVER VOLTAGE PROTECTION TRIP	1-Oct-19
14	BAKRESWAR	WBPDC	1	210	COAL SHORTAGE	1-Nov-19
15	DPL	WBPDC	7	300	COAL SHORTAGE	6-Nov-19
16	BOKARO A	DVC	1	500	PROBLEM IN ASH POND	15-Oct-19
17	BOKARO B	DVC	3	210	PROBLEM IN ASH POND	12-Sep-19
18	MEJIA	DVC	2	210	COAL FEEDING PROBLEM	22-Sep-19
19	MEJIA	DVC	3	210	COAL SHORTAGE	25-Oct-19
20	KODERMA	DVC	1	500	PROBLEM IN ASH POND	25-Oct-19
21	STERLITE	GRIDCO	2	600	DUE TO PROBLEM IN OLTC SYSTEM OF Unit Transformer	10-Apr-19
22	BARAUNI	BSPHCL	8	250	LOW FURNACE PRESSURE	9-Nov-19
23	WARIA	DVC	4	210	FLAME FAILURE	9-Nov-19
	Sub Total (SS)			6415		

Generators/ constituents are requested to update the expected date of revival of the units.

(ii) Hydro Generating units:

Sl. No.	Station	Unit No.	Capacity (MW)	Reason (s) of outage	Outage date
1	Balimela	Unit- 1	60	Renovation & Modernization work (Planned)	05-08-2016
		Unit- 2	60	Renovation & modernization work (Planned).	20-11-2017
2	Burla	Unit-1	49.5	Turbine & Generator coupling cover water leakage (Forced)	14-03-2018
		Unit-5	37.5	Renovation. Modernization & up rating work (Planned)	25-10-2016
		Unit-6	37.5	Renovation, Modernization & up rating work (Planned)	16-10-2016
3	Chiplima	Unit-3	24	Renovation & Modernization work (Planned)	15-10-2015
4	Rengali	Unit-2	50	Capital Maintenance (Planned)	12-12-2018
5	Indravati	Unit- 2	150	Excitation Problem	06-11-2019

It is seen that about 468.5 MW hydro capacities in Odisha is under forced outage / planned outage in the period of peak monsoon and therefore not available for providing the much needed peaking support during evening peak. SLDC / OHPC may please indicate restoration plan of the units.

(iii) Transmission elements

SL NO	Transmission Element / ICT	Agency	Outage DATE	Reasons for Outage
1	220 KV BALIMELA - U' SILERU	OPTCL / APSEB	10-03-2018	LINE ANTITHEFT CHARGED FROM UPPER SILERU ON 17-04-18
2	400 KV IBEUL JHARSUGUDA D/C	IBEUL	29-04-2018	TOWER COLLAPSE AT LOC 44,45
3	400KV NEW PURNEA-BIHARSARIFF(PG)-D/C	ENICL	10-08-2018	TOWER COLLAPSE AT LOC 47/0
4	400 KV PATNA KISHANGANJ- I	POWERGRID	01-09-2018	TOWER COLLAPSE AT LOC 129. PILING DAMAGED
5	400 KV PATNA KISHANGANJ- II	POWERGRID	06-07-2019	EMERGENCY HAND TRIPPED DUE TO FRUSTUM OF LOCATION NO: 129A/0 (A LEG) HAS BEEN EXPOSED ON SOIL EROSION.
6	220 KV PANDIABILI - SAMANGARA D/C	OPTCL	03-05-2019	49 NOS OF TOWER COLLAPSED.AS REPORTED BY SLDC OPTCL, TOTAL 60 NOS OF TOWER IN BETWEEN 220KV PANDIABILI – SAMANGARA LINE IN WHICH 48 NOS TOWERS FULLY DAMAGED AND 12 NOS TOWERS PARTIALLY DAMAGED. WORK UNDER PROGRESS.
7	400/132 KV, ICT II (200 MVA) AT KAHALGAON	NTPC	02-08-2019	Y PHASE BUSHING BURSTED
8	132 KV KhSTPP-KAHALGAON(BSPTCL)	BSPHCL	23-09-2019	TO RESTRICT LOADING ON 400/132 KV KAHALGAON(NTPC) ICT 1 /LOAD OF KAHALGAON SHIFTED TO NEW SABOUR(GORADIH).

9	400 KV MOTIHARI(DMTCL)-GORAKHPUR-I	POWERGRID/DMTCL	13-08-2019	LINE SWITCHED OFF DUE TO ANTICIPATED TOWER COLLAPSE AT LOC 27/0(132) DUE TO CHANGE OF COURSE OF GANDAK RIVER.TOWER COLLAPSED REPORTED AT LOC 27/0(132) ON 15/08/19 AT 07:00 HRS.
10	400 KV MOTIHARI(DMTCL)-GORAKHPUR-II	POWERGRID/DMTCL	13-08-2019	
11	400 KV BARH-MOTIHARI(DMTCL) -I	POWERGRID/DMTCL	04-09-2019	TOWER COLLAPSE AT LOCATION 26/0 AND 25/5
12	400 KV BARH-MOTIHARI(DMTCL) -II	POWERGRID/DMTCL	04-09-2019	
13	765KV JHARSUGUDA-RAIPUR-I	POWERGRID	25-10-2019	OPENED ON OVER VOLTAGE AT JHARSUGUDA
14	220KV MUZAFFARPUR-DHALKEBAR-I	POWERGRID	03-10-2019	LINE KEPT OPEN TO REGULATE VOLTAGE AT MUZAFFARPUR
15	765KV-ANGUL-JHARSUGUDA-III	POWERGRID	07-11-2019	OPENED ON OVER VOLTAGE AT JHARSUGUDA
16	220KV BEGUSARAI-NEW PURNEA-I	BSPTCL	13-10-2019	B-N, 5.98kA, 12.6km at NEW PURNEA;Line will not to be charged till: 1)sag/clearance issue is resolved 2)Healthiness certificate from independent third party obtained 3)ensure auto reclosure healthiness.
17	220KV BEGUSARAI-NEW PURNEA-II	BSPTCL	14-10-2019	R-N, 1.93kA, 85.6km A/R successful at NEW PURNEA.Line will not to be charged till: 1)sag/clearance issue is resolved 2)Healthiness certificate from independent third party obtained 3)ensure auto reclosure healthiness.
18	400KV BINAGURI-TALA-II	POWERGRID/BHUTAN	08-11-2019	S/D VAILED FOR CHECKING THE STATUS OF HARDWARE FITTINGS, INSULATORS, CONDUCTORS AND REPLACEMENT OF BROKEN INSULATORS
19	400 KV BINAGURI-RANGPO-1	POWERGRID	01-11-2019	S/D AVAILED FOR RECONDUCTORING WORK TILL 30/11/19
20	400 KV BINAGURI-RANGPO-2	POWERGRID	01-11-2019	

(Reported as per Clause 5.2(e) of IEGC)

** Transmission licensees whose line were out due to tower collapse/ bend, may please update the detail restoration plan and as on date work progress status in OCC.

Also Monthly progress report to be submitted to ERLDC/ERPC till restoration of the element.

Members may update.

Deliberation in the meeting

Members noted.

PART E::ITEMS FOR INFORMATION

The following agenda items are placed for information and necessary compliance:

Item No. E.1: Submission of data in MERIT Order portal--CEA

CEA vide mail dated 9th July 2019 informed that the MERIT Order portal had been launched on 23rd June, 2017 by Honourable Minister of Power. One of the most important advantages of "Merit" Portal is Transparent information dissemination pertaining to marginal variable cost and source wise purchase of electricity and indication of supply side reliability, adequacy, and cost of power procurement.

However, it has been observed that many of the states are not filling the data regularly and sometimes the data filled varies widely from the data available on the respective RLDCs daily reports.

It is requested that the states may be advised to fill the data regularly and check that correct data is filled on the MERIT Portal.

In 159th OCC, all the SLDCs were advised to fill the correct data in MERIT portal on regular basis.

Item No. E.2: 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	46	85.19
NTPC	16	14	87.50
NHPC	1	1	100.00
DVC	40	26	65.00
WB	68	49	72.06
Odisha	59	42	71.19
JUSNL	34	25	73.53
BSPTCL	16	5	31.25
IPP (GMR, Sterlite and MPL)	5	5	100.00

** Pending observations of Powergrid are related to PLCC problems at other end.*

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.

Item No. E.3: Commissioning of new transmission elements in Eastern Region

The details of new units/transmission elements commissioned in the month of September-2019 based on the inputs received from beneficiaries

SL NO	Element Name	Owner	Charging Date	Charging Time	Remarks
1	400 KV North Karnapura I main bay at Gaya	PGCIL	04-10-2019	18:20	

2	220kv Gokarna-Rejinagar #1 (35.294 KM zebra)	WBSE TCL	21-10- 2019	20:37(R) /20:38(G)	220/132/33kv REJINAGAR AIS S/S (by LIL Oing 220kv Gokarna- Krishnagar D/C)
3	220kv Gokarna-Rejinagar #2 (35.294 KM zebra)	WBSE TCL	21-10- 2019	22:55(R) /22:57(G)	
4	220 Krishnagar-Rejinagar #2 (73.00 KM zebra)	WBSE TCL	21-10- 2019	20:30(K) /21:01(R)	
5	220 Krishnagar-Rejinagar #1 (73KM ACSR zebra)	WBSE TCL	21-10- 2019	21:13(K) /21:44(R)	
6	220/132/33KV 160MVA TR#1	WBSE TCL	22-10- 2019	18:50hr	Upto LV cable charged
7	220/132/33KV 160MVA TR#2	WBSE TCL	22-10- 2019	19:05hr	Upto LV cable charged
8	765 kV Bus Sectionalizer Bay between Bus II & IV at Jharsuguda	PGCIL	25-10-2019	11:48	

Item No. E.4: UFR operation during the month of October'19

System frequency touched a maximum of 50.31 Hz at 13:03hrs of 23/10/19 and a minimum of 49.67 Hz at 07:07hrs of 24/10/19. Hence, no report of operation of UFR has been received from any of the constituents.








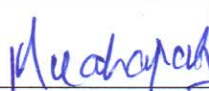
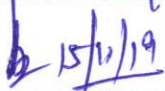

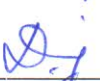

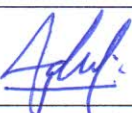
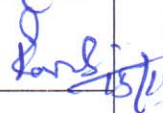
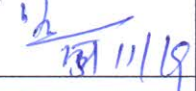
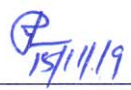

Participants of 163rd OCC Meeting of ERPC on dated 15th Nov'19,Time:10:30 HrsVenue: Hotel Pride Ananya, Puri

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Participants of 163rd OCC Meeting of ERPC on dated 15th Nov'19,

Time:10:30 Hrs

Venue: Hotel Pride Ananya, Puri

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Venue: Hotel Pride Ananya, Puri

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Participants of 163rd OCC Meeting of ERPC on dated 15th Nov'19,

Time:10:30 Hrs




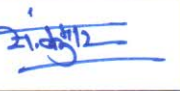
Venue: Hotel Pride Ananya, Puri

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54	Shachi Devi	SPTL	9632433255	shachidevi.tk Csterlite.com	Shg
55	J. C. Patra	NTPC Agm (OCM)	9437073677	jcpatra@ntpc.co.in	Muk
56	J. G. Rao	EE ERPC	9547891353	ganesh.jada@ gov.in	Chada
57	Ashish Lamichaney	A.E. Power Dept. Sikim	9615878284	alamichaney@gmail.com	Ashish
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64	H.R. Nayak	GOVERNOR CELU.	9437555670	helo.khanaka@gmail. com	H.R.
65	SAURABH KR.	BRBCL Manager	8005433034	Saurabhkumar01@ ntpc.co.in	Saurabh
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Participants of 163rd OCC Meeting of ERPC on dated 15th Nov'19,

Time:10:30 Hrs

Venue: Hotel Pride Ananya, Puri

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73					
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Generation Projection (Jan 2020 - Mar 2020)																	
				Generation declared Commercial from 1st Apr'19 to 30th Sep'19					Generation declared/expected to be declared Commercial from 1st Oct'19 to 31st Dec'19								
Sl. No.	Entities	Region	Projection s based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	Bus Name	Unit No.	Installed Capacity	Gen. consider ed	Sub Total	TOTAL	Comments From DICs /Others (if any)	Figure as per Comments/ PoC Data	Projected Generation before normalization w.r.t projected All India Peak Demand
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)			(MW)
1	West Bengal	ER	4973											4973			4973
2	Odisha	ER	3350	OPGC Stage-II	4	660	432	432						3782	As per data given by Orrisa	3908	3908
3	Bihar	ER	199											199			199
4	Jharkhand	ER	346											346			346
5	Sikkim	ER	0											0			0
6	Chujachan	ER	95											95			95
7	DVC	ER	5315											5315			5315
8	Durgapur Steel	ER															
9	Koderma TPP	ER															
10	Bokaro TPS	ER															
11	Raghunathpur	ER															
12	MPL	ER	1002											1002			1002
13	Teesta V	ER	536											536			536
14	Kahalgaon	ER	2238											2238			2238
15	Farakka	ER	1972											1972			1972
16	Talcher	ER	959											959			959
17	Rangit	ER	63											63			63
18	Adhunik Power	ER	356											356			356
19	Barh	ER	1274											1274			1274
20	Kamalanga TPP (GMR)	ER	603											603			603
21	JITPL	ER	724											724			724
22	Jorethang	ER	67											67			67
23	Bhutan	ER	278											278			278

Generation Projection (Jan 2020 - Mar 2020)																	
				Generation declared Commercial from 1st Apr'19 to 30th Sep'19					Generation declared/expected to be declared Commercial from 1st Oct'19 to 31st Dec'19								
Sl. No.	Entities	Region	Projections based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	TOTAL	Comments From DICs /Others (if any)	Figure as per Comments/ PoC Data	Projected Generation before normalization w.r.t projected All India Peak Demand
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)			(MW)
24	Teesta-III	ER	1232											1232			1232
25	Dikchu HEP	ER	92											92			92
26	Nabinagar BRBCL	ER	646						Nabinagar BRBCL	4	250	164	164	810			810
27	Tashiding HEP	ER	99											99			99
28	Kanti Bijlee Stg-2 (KBUNL)	ER															0
29	Nabinagar STPS								Nabinagar STPS	1	660	432	432	432			432
30	Darlipalli STPP ST-I								Darlipalli STPP ST-I	1	800	524	524	524			524
	TOTAL		26419											27970			28096

Note:

- Projections are based on monthly maximum injection in the last 3 years from actual metered data.
- Generation forecast has been done based on the following criteria
 - If there is an increasing trend then last year average generation has been considered
 - Otherwise average of past three year average generation has been considered
- In case of new generators where past data was not available following has been assumed
 - 0.8 plf for hydro generators
 - 0.7 plf for thermal generators.
 - 0.3 plf for gas stations

DEMAND FORECAST USING PAST 3 YEARS DATA (Jan 2020 - Mar 2020)															
										1	2	3	4	Data given by DICs	Comments
	2016-17			2017-18			2018-19								
	Jan-17	Feb-17	Mar-17	Jan-18	Feb-18	Mar-18	Jan-19	Feb-19	Mar-19	2016-17 Average	2017-18 Average	2018-19 Average	Projected Demand for (Jan2020 - Mar 2020) before normalization		
Bihar	3,535	3,543	3,715	4,343	4,346	4,469	4,249	4,126	4,489	3,598	4,386	4,288	4,781		
DVC	2,457	2,570	2,663	2,886	2,758	2,896	2,871	3,098	2,954	2,563	2,847	2,974	3,206		
Jharkhand	1,121	1,165	1,148	1,192	1,175	1,162	1,260	1,264	1,248	1,145	1,176	1,257	1,305		
Odisha	3,896	3,847	3,989	3,931	4,109	4,402	4,198	4,264	4,632	3,911	4,147	4,365	4,595	4307	As per Data given by Odisha
West Bengal	6,078	7,036	7,840	6,357	6,879	8,083	6,538	7,024	6,618	6,985	7,106	6,727	6,681		
Sikkim	91	91	91	94	96	88	106	104	104	91	93	105	110		

Notes

1. Projections are based on the past 3 years' monthly Peak Demand Met data available on the website of CEA
2. The above projections are being done for financial year 2019-2020 (Q4) i.e January 2020-March 2020
3. Projections are being done based on the forecast function available in MS Office Excel
4. CEA Reports can be accessed from the following links:
http://www.cea.nic.in/reports/monthly/powersupply/2019/psp_peak-01.pdf
http://www.cea.nic.in/reports/monthly/powersupply/2019/psp_peak-02.pdf
http://www.cea.nic.in/reports/monthly/powersupply/2019/psp_peak-03.pdf
http://www.cea.nic.in/reports/monthly/powersupply/2018/psp_peak-01.pdf
http://www.cea.nic.in/reports/monthly/powersupply/2018/psp_peak-02.pdf
http://www.cea.nic.in/reports/monthly/powersupply/2018/psp_peak-03.pdf
http://www.cea.nic.in/reports/monthly/powersupply/2017/psp_peak-01.pdf
http://www.cea.nic.in/reports/monthly/powersupply/2017/psp_peak-02.pdf
http://www.cea.nic.in/reports/monthly/powersupply/2017/psp_peak-03.pdf

Annexure-D.1

**Anticipated Power Supply Position for the month of
Dec-19**

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
i)	NET MAX DEMAND	4800	2500
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	406	342
	- Central Sector	3690	1777
iii)	SURPLUS(+)/DEFICIT(-)	-704	-381
2	JHARKHAND		
i)	NET MAX DEMAND	1360	810
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	405	165
	- Central Sector	920	421
iii)	SURPLUS(+)/DEFICIT(-)	-35	-224
3	DVC		
i)	NET MAX DEMAND (OWN)	3000	1885
ii)	NET POWER AVAILABILITY- Own Source	5348	2980
	- Central Sector	490	223
	Long term Bi-lateral (Export)	1684	1253
iii)	SURPLUS(+)/DEFICIT(-)	1154	64
4	ODISHA		
i)	NET MAX DEMAND	3900	2530
ii)	NET POWER AVAILABILITY- Own Source	3492	1378
	- Central Sector	1343	642
iii)	SURPLUS(+)/DEFICIT(-)	935	-510
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAX DEMAND (OWN)	5795	2704
ii)	CESC's DRAWAL	0	59
iii)	TOTAL WBSEDCL's DEMAND	5795	2763
iv)	NET POWER AVAILABILITY- Own Source	4231	1913
	- Import from DPL	414	0
	- Central Sector	2177	1148
v)	SURPLUS(+)/DEFICIT(-)	1028	298
vi)	EXPORT (TO B'DESH & SIKKIM)	464	136
5.2	DPL		
i)	NET MAX DEMAND	0	195
ii)	NET POWER AVAILABILITY	414	188
iii)	SURPLUS(+)/DEFICIT(-)	414	-7
5.3	CESC		
i)	NET MAX DEMAND	1450	713
ii)	NET POWER AVAILABILITY - OWN SOURCE	520	363
	FROM HEL	540	258
	Import Requirement	390	92
iii)	TOTAL AVAILABILITY	1450	713
iv)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAX DEMAND	7245	3612
ii)	NET POWER AVAILABILITY- Own Source	5165	2465
	- Central Sector+Others	3107	1406
iii)	SURPLUS(+)/DEFICIT(-)	1028	259
7	SIKKIM		
i)	NET MAX DEMAND	125	61
ii)	NET POWER AVAILABILITY- Own Source	2	1
	- Central Sector+Others	130	58
iii)	SURPLUS(+)/DEFICIT(-)	7	-1
8	EASTERN REGION		
	At 1.03 AS DIVERSITY FACTOR		
i)	NET MAX DEMAND	19835	11397
	Long term Bi-lateral by DVC	1684	1253
	EXPORT BY WBSEDCL	464	136
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	24499	11857
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	2516	-929

ERLDC, KOLKATA										
TRANSMISSION ELEMENTS OUTAGE APPROVED IN 163rd OCC MEETING OF ERPC										
SI	NAME OF THE ELEMENTS	FROM		TO		REMARKS	S.D availed BY	Reason	SUBJECT TO CONSENT FROM AGENCY	COMMENTS
DATE	TIME	DATE	TIME							
1	+800 KV HVDC BNC AGRA	15-11-2019	09:00	30-11-2019	18:00	OCB	POWERGRID ER-I	15 DAY SD REQUIRED SHIFTING OF LINE TO ERS TO RECTIFY VULNERABLE LOCATION 1619, 1618 WHOSE LEGS /MAIN BRACING HAVE BEEN CUT BY MISCREANTS. DATES TENTATIVE AND SHALL BE CONFIRMED BASED ON SITE CONDITION	NLDC	
2	220kv Sasaram-Sahupuri-s/c	22-11-2019	09:00	25-11-2019	18:00	OCB	POWERGRID ER-I	For Load restriction during S/D of 500MVA ICT-I for Transformer Retrofitting Work	NLDC	
3	400kv Maithon-Durgapur-2 line	22-11-2019	10:00	23-11-2019	16:00	ODB	POWERGRID, ER-II	Internal inspection/Overhauling of interrupter of 400kV CB of Main Bay.		
4	765 KV GAYA-VARANASI 1	25-11-2019	09:00	25-11-2019	18:00	ODB	POWERGRID NR-3	Insulator cleaning work by Varanasi.	NLDC	
5	500MVA ICT-1 at Maithon	25-11-2019	08:00	25-11-2019	18:00	ODB	POWERGRID, ER-II	Replacement of MOG and onload testing of CSD	DVC	
6	400KV Maithon-Right Bank #II	25-11-2019	08:00	09-12-2019	18:00	OCB	POWERGRID, ER-II	Re conducting work	MPL	
7	Non Autoreclose mode 400KV Maithon-Right Bank #I	25-11-2019	08:00	09-12-2019	18:00	ODB	POWERGRID, ER-II	MTN RB Ckt-I will be kept in Non-Auto during Re conducting in MTN RB Ckt-II for safety measure.		
8	765 KV SASARM-FATEHPUR	28-11-2019	10:00	29-11-2019	18:00	ODB	POWERGRID NR-3	Insulator cleaning work by Allahabad .	NLDC	
9	315 MVA ICT II at Baripada	01-12-2019	09:00	01-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Relay retrofitting & AMP works	GRIDCO	
10	A/R OF 400KV Baripada-Kharagpur line	01-12-2019	09:00	10-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Line Auto-reclose switch is to be kept in Non-auto mode for Online PID scanning work of porcelain insulator of concerned line	WB	
11	A/R OF 400 KV Rengali - Talcher # 1 Line (Non-Auto)	01-12-2019	08:00	10-12-2019	17:00	ODB	ER-II/Odisha/Rengali	For PID Measurement		
12	765KV Sundargarh-Angul Ckt #1	01-12-2019	08:00	01-12-2019	17:30	ODB	ER-II/Odisha/Sundergarh	TL Maint work	NLDC	
13	A/R OF 400KV Sundergarh-Raigarh Ckt #1	01-12-2019	08:00	07-12-2019	17:30	ODB	ER-II/Odisha/Sundergarh	For PID Testing of Porcelain Insulator. Only Auto reclose		
14	A/R OF 765kv Angul-Srikakulam Ckt I&II	01-12-2019	07:00	31-12-2019	18:00	ODB	ER-II/Odisha	Line Auto-reclose switch is to be kept in Non-auto mode For stringing of OPGW under "EASTERN REGION FIBRE OPTIC EXPANSION PROJECT (Reliable Requirement)"	NLDC	TO BE ALLOWED ALTERNATIVELY
15	A/R OF 400kv Angul-GMR Ckt I &II	01-12-2019	07:00	31-12-2019	18:00	ODB	ER-II/Odisha	Line Auto-reclose switch is to be kept in Non-auto mode For stringing of OPGW under "EASTERN REGION FIBRE OPTIC EXPANSION PROJECT (Reliable Requirement)"	GMR	
16	A/R OF 400kv Angul-JITPL Ckt I &II	01-12-2019	07:00	31-12-2019	18:00	ODB	ER-II/Odisha	Line Auto-reclose switch is to be kept in Non-auto mode For stringing of OPGW under "EASTERN REGION FIBRE OPTIC EXPANSION PROJECT (Reliable Requirement)"	JITPL	
17	A/R OF 400kv Baripada-Duburi Line	01-12-2019	07:00	30-12-2019	18:00	ODB	ER-II/Odisha	Line Auto-reclose switch is to be kept in Non-auto mode For stringing of OPGW under "EASTERN REGION FIBRE OPTIC EXPANSION PROJECT (Additional Requirement)"		
18	A/R OF 400kv Duburi-Pandiabili Line	01-12-2019	07:00	30-12-2019	18:00	ODB	ER-II/Odisha	Line Auto-reclose switch is to be kept in Non-auto mode For stringing of OPGW under "EASTERN REGION FIBRE OPTIC EXPANSION PROJECT (Additional Requirement)"	GRIDCO	
19	A/R OF 400KV Baripada-Pandiabili Line	01-12-2019	07:00	30-12-2019	18:00	ODB	ER-II/Odisha	Line Auto-reclose switch is to be kept in Non-auto mode For stringing of OPGW under "EASTERN REGION FIBRE OPTIC EXPANSION PROJECT (Additional Requirement)"		
20	765KV GAYA-VARANASI-I	01-12-2019	09:00	09-12-2019	18:00	ODB	POWERGRID ER-I	For Strengthening of 765 kV line Suspension Delta Tower	NLDC	
21	A/R OF 400 KV BIHARSHARIF-BANKA-II	01-12-2019	07:00	31-12-2019	18:00	ODB	POWERGRID ER-I	OPGW WORK		
22	A/R OF 400 KV BIHARSHARIF-KODERMA-II	01-12-2019	07:00	31-12-2019	18:00	ODB	POWERGRID ER-I	OPGW WORK	DVC	
23	A/R OF 400 KV RANCHI-MAITHON(RB)-II	01-12-2019	07:00	31-12-2019	18:00	ODB	POWERGRID ER-I	OPGW WORK		
24	A/R OF 400 KV BARH-MOTIHARI-II	01-12-2019	07:00	31-12-2019	18:00	ODB	POWERGRID ER-I	OPGW WORK		
25	A/R OF 400 KV MOTIHARI-GORKAHPUR-II	01-12-2019	07:00	31-12-2019	18:00	ODB	POWERGRID ER-I	OPGW WORK	NLDC	
26	A/R OF 400 KV PATNA-KISANGANJ-II	01-12-2019	07:00	31-12-2019	18:00	ODB	POWERGRID ER-I	OPGW WORK		
27	400KV RANGPO-KISHANGANJ LINE	01-12-2019	08:00	31-12-2019	18:00	ODB	POWERGRID, ER-II	For stringing work of 400kV LOOP OUT		
28	400KV DIKCHU-RANGPO LINE	01-12-2019	08:00	31-12-2019	18:00	ODB	POWERGRID, ER-II	For stringing work of 400kV LOOP OUT		

29	220KV BUS-1 at Rangpo	01-12-2019	08:00	03-12-2019	17:00	OCB	POWERGRID, ER-II	For rectification of SF6 gas leakage repair work(both Shutdown needed on same dates) & liquidation of Line defeats		JORTHANG TASHIDING CONSENT NEEDED
30	220KV RANGPO-NEW MELLI line	01-12-2019	08:00	06-12-2019	17:00	OCB	POWERGRID, ER-II	For rectification of SF6 gas leakage repair work(both Shutdown needed on same dates) & liquidation of Line defeats		JORTHANG TASHIDING CONSENT NEEDED
31	A/R in non-auto mode in 400KV Teestail-Kishanganj S/C	01-12-2019	07:00	31-12-2019	17:00	ODB	POWERGRID, ER-II	For OPGW installation Work		
32	A/R in non-auto mode in 400KV Malda-Farakka - II	01-12-2019	07:00	31-12-2019	18:00	ODB	POWERGRID, ER-II	For OPGW installation Work		
33	400 kV Bay No.- 412 (Future Main Bay pertaining ICT-3) at Lakhisarai	01-12-2019	09:30	31-12-2019	17:30	OCB	POWERGRID ER-I	Construction works of ICT-3		
34	417 Bay (Tie Bay of 400 KV Haldia Line#1 and Future 125 MVAR Bus Reactor Bay) at Subhasgram SS	01-12-2019	09:00	03-12-2019	17:00	OCB	POWERGRID, ER-II	For ERSS-XX Project CB Erection Work and jumper connection		
35	160MVA ICT#1 at Baripada	02-12-2019	09:00	02-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	GRIDCO	
36	400 KV ROURKELA-SUNDARGARH#1 LINE	02-12-2019	09:30	02-12-2019	10:30	ODB	ER-II/ODISHA/ROURKELA	LINE AMP WORKS/ FOR TAKING THE LINE REACTOR OUT OF SERVICE FOR GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEAKAGES		
37	ICT-I (3x 105 MVA) at Jeypore	02-12-2019	10:00:00	02-12-2019	13:00:00	ODB	ER-II/Odisha /Jeypore	For changing ICT-I combination form Unit-I,II, IV to Unit-I, III & IV for charging Unit-III & AMP of 220kV Side CT of ICT-I	GRIDCO	
38	400KV NEW PURNEA-SILIGURI-I	02-12-2019	10:00	02-12-2019	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OLD DISTANCE RELAY(EPAC) WITH NEW MICOMP44 RELAY & AMP related Works.		
39	400 KV BALLIA-PATNA CKT-1	02-12-19	09:30	02-12-19	12:30	ODB	POWERGRID NR-3	For DGA Sampling of BHEL Make HV Bushings of Line Reactor at Ballia.	NLDC	
40	400KV BUS-1 AT MUZAFFARPUR	02-12-2019	09:30	05-12-2019	17:30	ODB	POWERGRID ER-I	STABILITY TEST, JUMPING & CONNECTION OF JUMPERS AND IPS TUBE ETC. OF 400KV NEPAL-1 & 2 BAYS. AMP of 400 KV Bus-1	BIHAR	
41	400KV PATNA-BALIA-I	02-12-2019	09:00	02-12-2019	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING WORK	NLDC	
42	765KV BUS-II at New Ranchi	02-12-2019	09:00	03-12-2019	17:00	ODB	POWERGRID ER-I	For construction of Medinipur bay	NLDC	
43	400 KV KODERMA-BOKARO TL - 2	02-12-2019	08:00	07-12-2019	17:00	ODB	POWERGRID ER-1	Replacement of insulator damaged by miscreant	DVC	
44	220kV Bus coupler at Rangpo	02-12-2019	09:00	02-12-2019	18:00	ODB	POWERGRID, ER-II	AMP Works		
45	400KV Binaguri-Tala-4 line	02-12-2019	08:00	02-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays	NLDC	
46	400 KV Binaguri- Purnea CKT-I	02-12-2019	08:00	02-12-2019	17:00	ODB	POWERGRID, ER-II	Identified defect liquidation & jumper Tightening		
47	Binaguri - Bongaigaon D/C (Twin) Line	02-12-2019	06:00	05-12-2019	18:00	ODB	POWERGRID, ER-II	Stringing at crossing between Loc. No. 11/0 - 12/0 of Jigmeling line and loc. No. 273-274 of Binaguri - Bongaigaon Line	NLDC	
48	400KV Maithon-Kahalgaon I&II	02-12-2019	08:00	03-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line		
49	Arambag-BKTPP 400 KV Line	02-12-2019	06:00	02-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
50	400KV Kharagpur- Baripada.	02-12-2019	06:00	02-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
51	400KV MTPS- Maithon PG Ckt#1	02-12-2019	09:00	03-12-2019	17:00	ODB	DVC	For preventive maintenance		
52	132 KV Rajgir-Barhi S/C T/L	02-12-2019	10:00	02-12-2019	16:00	ODB	BSPTCL	For tower top patrolling and maintenance work	No Load Restriction	
53	132 KV Nalanda-Barhi S/C T/L	02-12-2019	10:00	02-12-2019	16:00	ODB	BSPTCL	For tower top patrolling and maintenance work	No Load Restriction	
54	220 KV Sonenagar(New)-Gaya(PG) ckt1	02-12-2019	11:00	02-12-2019	16:00	ODB	BSPTCL	For line maintenance work	Sonenagar(New) will avail power alternate sources	
55	315 MVA ICT-I at Mendhasal grid S/s	02-12-2019	07:00	04-12-2019	16:00	ODB	OPTCL	Automation work		
56	Tie Bay 417 of 400kV B/R-II & Sterlite-II at Sundargarh SS	02-12-2019	09:00	02-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works		
57	400kV Tie Bay of Varanasi Line (CWD30Q50) at Pusauli	02-12-2019	09:00	02-12-2019	18:00	ODB	POWERGRID ER-I	AMP work		
58	400KV RANCHI-RAGUNATHPUR-2 MAIN BAY at Ranchi	02-12-2019	09:30	02-12-2019	17:00	ODB	POWERGRID ER-I	AMP		
59	420 bay (Maithon-II & Future Tie bay) at Durgapur	02-12-2019	07:12	02-12-2019	17.3	OCB	POWERGRID, ER-II	AMP works		
60	400KV Subhasgram Line Bay(401) with TIE Bay(402) at Rajarhat	02-12-2019	08:00	02-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work of GIS Bay and related equipment prior to completion of one year	WB	
61	220kV BUS-I at Jeypore SS	03-12-2019	08:00:00	03-12-2019	18:00:00	ODB	ER-II/Odisha /Jeypore	AMP Works & Isolator alignment of 220kV Bus-I Side of ICT-I, Bus-Coupler, TBC Bay, Jayanagar-I & II Line	GRIDCO	
62	400KV NEW PURNEA-SILIGURI-I	03-12-2019	10:00	03-12-2019	12:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OLD DISTANCE RELAY(EPAC) WITH NEW MICOMP44 RELAY & AMP related Works.		
63	400 KV ALLAHABAD-SASARAM	03-12-19	10:00	03-12-19	18:00	ODB	POWERGRID NR-3	Insulator cleaning work by Allahabad	NLDC	

64	200 MVA ICT-I AT BANKA	03.12.2019	09:00	03.12.2019	17:00	ODB	POWERGRID ER-I	ANNUAL MAINTENANCE	BIHAR	
65	400KV RANCHI-NEW -RANCH-I	03-12-2019	09:30	03-12-2019	17:00	ODB	POWERGRID ER-I	AMP OF MAIN BAY AT RANCHI ,AS THERE IS NO TIE BAY		
66	ICT1(315MVA) AT CHAIBASA	03-12-2019	09:30	03-12-2019	17:30	ODB	POWERGRID ER-I	AMP OF ICT 1		
67	400KV PATNA-BALIA-II	03-12-2019	09:00	03-12-2019	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING WORK	NLDC	
68	765 KV,240 MVAR B/R-1 at New Ranchi	03-12-2019	09:00	03-12-2019	17:00	ODB	POWERGRID ER-I	AMP	NLDC	
69	132 kv Main Bus at Lakhisarai	03-12-2019	09:30	03-12-2019	17:30	ODB	POWERGRID ER-I	Construction works of ICT-3		
70	400 kv NEW RANCHI-CHANDWA-I & II	03-12-2019	09:00	04-12-2019	17:00	ODB	POWERGRID ER-I	Overhead powerline crossing of 400 KV ESSAR-Latehar T/L and 400 KV Patratu-Latehar T/L	NLDC	
71	400 KV Binaguri-Purnea ckt -II	03-12-2019	08:00	03-12-2019	17:00	ODB	POWERGRID, ER-II	Identified defect liquidation and jumper tightening		
72	220KV Siliguri Dalkhola Ckt-2	03-12-2019	09:00	03-12-2019	17:00	ODB	POWERGRID, ER-II	Retrofitting of numerical A/R relay		
73	Arambag-New PPSP 400 KV Line-1	03-12-2019	06:00	03-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
74	400KV KTPP-Kharagpur#2	03-12-2019	06:00	04-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
75	132KV Gangtok Ckt-II- Rangpo Line	03-12-2019	08:00	03-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
76	132kv Rangit-Rangpo Line	03-12-2019	08:00	03-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
77	400 KV 406 Main Bay of 315 MVA ICT-II	03-12-2019	09:00	03-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		
78	220 KV INCOMMER#1 (BAY No-211T)	03-12-2019	09:00	03-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		
79	Main Bay 418 of 400kv Sterlite-II at Sundargarh SS	03-12-2019	09:00	03-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works		
80	Tie bay of ICT 3 & future (427 Bay)at Jamshedpur	03-12-2019	09:30	03-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
81	400kv Tie Bay of Allahabad Line (CWD20Q50) at Pusauli	03-12-2019	09:00	03-12-2019	18:00	ODB	POWERGRID ER-I	AMP work		
82	422 Bay at NTPC Farakka (Main Bay of Kahalgaon-1)	03/12/19	10:00	03/12/19	11:00	ODB	POWERGRID, ER-II	Oil Sampling of Bay CT.		
83	424 Bay at NTPC Farakka (Main Bay of Berjampore-2)	03/12/19	11:00	03/12/19	12:00	ODB	POWERGRID, ER-II	Oil Sampling of Bay CT.		
84	423 Bay at NTPC Farakka (Tie Bay of Berjampore-2 & Kahalgaon-1)	03-12-2019	15:00	03-12-2019	16:00	ODB	POWERGRID, ER-II	Oil Sampling of Bay CT.		
85	403 Bay (Sagardighi-I Main bay) at Durgapur	03-12-2019	07:12	03-12-2019	17.3	ODB	POWERGRID, ER-II	AMP worka		
86	400 KV ROURKELA-SUNDARGARH#1 LINE	04-12-2019	09:00	04-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	FOR DISMANTALING OF REACTOR BUSHINGS (SHUTDOWN BEING AVAILED AS CLEARANCE IS LESS)		
87	Replacement of DGA Violated CTs with new GE make CTs.	04-12-2019	07:00	04-12-2019	19:00	OCB	ER-II/Odisha/HVDC Talcher	Outage of Bus Filter Bay (10CO6A-T1) of ACF-1 on continuous basis for replacement of DGA violated CTs with new GE make CTs. The same Filter Bank ACF-1 shall be kept in service through 10CO6C Bay . There shall be no interruption or any limitation of Powerflow & all the Filter Banks shall remain in Service during above conditions.	NLDC	
88	220KV BUS-II at Jeypore SS	04-12-2019	08:00:00	04-12-2019	18:00:00	ODB	ER-II/Odisha /Jeypore	AMP Works & Isolator alignment of 220kv Bus-II Side of ICT I, Bus-Coupler,TBC Bay, Jayanagar-I & II Line	GRIDCO	
89	220 kv Ara Nadokhar Ckt 1	04-12-2019	10:00	04-12-2019	17:00	On Daily Basis	POWERGRID ER-I	Main 1 Distance Relay replacement depending upon GE Engineer Visit	BIHAR	AFTER PUSAULI ICT SHUTDOWN
90	400 KV BALLIA-PATNA CKT-4	04-12-19	09:30	04-12-19	18:00	ODB	POWERGRID NR-3	Defective Insulator Replacement work by Ballia.	NLDC	
91	400 KV GORAKHPUR-MUZAFFARPUR CKT-1	04.12.2019	10:00	04.12.2019	17:30	ODB	POWERGRID NR-3	AMP of Line Bay equipments & Relay Testing at Gorakhpur.	AFTER RESTORATION OF 400KV BARH- MOTIHARI- GORAKHPUR-DC	
92	200 MVA ICT-II AT BANKA	04.12.2019	09:00	04.12.2019	17:00	ODB	POWERGRID ER-I	ANNUAL MAINTENANCE	BIHAR	
93	315 MVA ICT-1 at 400/220 kv Ranchi SS	04-12-2019	09:30	04-12-2019	17:00	ODB	POWERGRID ER-I	Backup impedance relay installation (GE) SO LOAD WILL BE RESTRICTED TO 250 MW	JSEB	PREPONE BEFORE 13TH
94	400 KV Muzaffarpur- Gorakhpur line-I	04-12-2019	10:00	04-12-2019	17:30	ODB	POWERGRID ER-I	AMP of line bays at Muzaffarpur substation	AFTER RESTORATION OF 400KV BARH- MOTIHARI- GORAKHPUR-DC	
95	400KV PATNA-BALIA-III	04-12-2019	09:00	04-12-2019	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF PORCELAIN INSULATOR BY POLYMER	NLDC	
96	400 kv Main Bus-2 at Lakhisarai	04-12-2019	09:30	04-12-2019	17:30	ODB	POWERGRID ER-I	Construction works of ICT-3	BIHAR	
97	400KV Binaguri-Tala-3 line	04-12-2019	08:00	04-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays	NLDC	
98	400KV Malda-Purnea-I	04-12-2019	08:00	04-12-2019	17:00	ODB	POWERGRID, ER-II	A/R Retrofitting/Pantograph isolator defect rectification		
99	400KV BUS-I at Malda	04-12-2019	08:00	04-12-2019	17:00	ODB	POWERGRID, ER-II	Pantograph isolator defect rectification	WB	
100	400KV Maithon-Durgapur I&II	04-12-2019	08:00	05-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line		SUBJECT TO DVC AND WB CONSENT

101	400 KV BUS-III at Durgapur	04-12-2019	07:12	04-12-2019	17:3	ODB	POWERGRID, ER-II	Bus jumper tightness & AMP	DVC	
102	Arambag-New PPSP 400 KV Line-2	04-12-2019	06:00	04-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
103	220KV Jamshedpur-Jindal Tie	04-12-2019	09:00	04-12-2019	17:30	ODB	DVC	for annual maintenance of PCT at DVC 220kv JSR S/S.		
104	400KV MTPS- Maithon PG Ckt#2	04-12-2019	09:00	05-12-2019	17:00	ODB	DVC	For preventive maintenance		
105	400KV TISCO-Baripada	04-12-2019	09:00	04-12-2019	17:30	ODB	DVC	for Annual maintenance of Relay & CVT .		
106	220 KV DMTCL(Darbhang)-Motipur S/C T/L	04-12-2019	12:00	04-12-2019	12:15	ODB	BSPTCL	ABT meter	No load restriction	
107	220 KV DMTCL(Darbhang)-Samastipur(New) S/C T/L	04-12-2019	09:00	05-12-2019	17:00	ODB	BSPTCL	For line maintenance work	Samastipur (New) will avail power from alternate sources.	
108	132 KV NTPC(Kahalgaon)-Kahalgaon S/C T/L	04-12-2019	09:00	04-12-2019	16:00	ODB	BSPTCL	For tower top patrolling and maintenance work	No Load Restriction	
109	132KV Gangtok Ckt-II- Rangpo Line	04-12-2019	08:00	04-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
110	132KV Rangit-Rangpo Line	04-12-2019	08:00	04-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
111	400 kv 407 main Bay of Baripada-Duburi line	04-12-2019	09:00	05-12-2019	17:30	OCB	ER-II/Odisha/BARIPADA S/S	AMP works & Gasket replacement		
112	400 KV Keonjhar Line Main Bay (Bay No-401)	04-12-2019	09:00	04-12-2019	17:00	ODB	ER-II/Odisha/Rengali	AMP & MOM Box Retrofitting		
113	Main Bay 415 of 400kv Sterlite-II at Sundargarh SS	04-12-2019	09:00	04-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works		
114	Main Bay of Baripada line (418 Bay) at Jamshedpur	04-12-2019	09:30	04-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
115	400KV Siliguri-1 & ICT-2 Tie Bay (402-52 Bay) at New Purnea	04-12-2019	10:00	04-12-2019	18:00	OCB	POWERGRID ER-I	AMP work		
116	Main Bay MUZZAFARPUR 2 at Biharsharif 401 Bay	04-12-2019	09:30	04-12-2019	18:00	ODB	POWERGRID ER-I	AMP WORK		
117	765/400 KV 3*500 MVA ICT Main Bay(709-52) at Pusaui	04-12-2019	09:00	04-12-2019	18:00	ODB	POWERGRID ER-I	Retrofitting work of CSD Relay & AMP work	NLDC	
118	204 bay (ICT1 220KV SIDE) AT CHAIBASA	04-12-2019	09:30	04-12-2019	17:30	ODB	POWERGRID ER-I	AMP OF 204 BAY		
119	408 Bay(CT-1 & 400 kv Sasaram 1 Tie Bay) AT DALTANGANJ	04-12-2019	09:30	04-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP		
120	419 bay Ballia -3 Main bay AT PATNA	04-12-2019	10:00	04-12-2019	17:30	ODB	POWERGRID ER-1	AMP		
121	Tie Bay of 765 KV B/R-II (Bay 708) at New Ranchi	04-12-2019	09:00	04-12-2019	17:00	ODB	POWERGRID ER-I	AMP	NLDC	
122	434 Bay at NTPC Farakka (Tie Bay of Berjampore-1 & Kahalgaon-3)	04/12/19	10:00	04/12/19	11:00	ODB	POWERGRID, ER-II	Oil Sampling of Bay CT.		
123	409 Bay at NTPC Farakka (Main Bay of Bus reactor-2)	04/12/19	12:00	04/12/19	13:00	ODB	POWERGRID, ER-II	Oil Sampling of Bay CT.		
124	408 Bay at NTPC Farakka (Tie Bay of Bus Reactor-1 & GT-3)	04-12-2019	15:00	04-12-2019	16:00	ODB	POWERGRID, ER-II	Oil Sampling of Bay CT.		
125	400KV Jeerat Line Bay(408) with TIE Bay(409) at Rajarhat	04-12-2019	08:00	04-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work of GIS Bay and related equipment prior to completion of one year	WB	
126	220KV WBSETCL Subhasgram Line#1 (Bay No.207) at Subhasgram	04-12-2019	09:00	04-12-2019	17:00	ODB	POWERGRID, ER-II	For rectification of Abnormal sound Coming from Line Isolator	WB	
127	400/220 KV 315 MVA ICT#2	05-12-2019	09:00	05-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	GRIDCO	
128	220 kv Ara Nadokhar Ckt 2	05-12-2019	10:00	05-12-2019	17:00	On Daily Basis	POWERGRID ER-I	Main 1 Distance Relay replacement depending upon GE Engineer Visit	BIHAR	AFTER PUSAULI ICT SHUTDOWN
129	400 KV BALLIA-PATNA CKT-3	05-12-19	09:30	05-12-19	18:00	ODB	POWERGRID NR-3	Defective Insulator Replacement work by Ballia.	NLDC	
130	400 KV GORAKHPUR- MUZZAFFARPUR CKT-3	05.12.2019	10:00	05.12.2019	17:30	ODB	POWERGRID NR-3	AMP of Line Bay equipments at Gorakhpur .	AFTER RESTORATION OF 400KV BARH	
131	400 KV Pusaui Allahabd Line	05-12-2019	09:00	10-12-2019	18:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings and Relay Retrofitting	NLDC	
132	765/400 KV 3*500 MVA ICT at Pusaui	05-12-2019	09:00	05-12-2019	18:00	ODB	POWERGRID ER-I	Retrofitting work of CSD Relay & AMP work LINE,B/R	NLDC	
133	315 MVA ICT-2 at 400/220 kv Ranchi SS	05-12-2019	09:30	05-12-2019	17:00	ODB	POWERGRID ER-I	Backup impedance relay installation (GE) SO LOAD WILL BE RESTRICTED TO 250 MW	JSEB	PREPONE BEFORE 13TH
134	400 KV Muzaffarpur- Gorakhpur line-II	05-12-2019	10:00	05-12-2019	17:30	ODB	POWERGRID ER-I	AMP of line bays at Muzaffarpur substation	AFTER RESTORATION OF 400KV BARH- MOTIHARI- GORAKHPUR-DC	
135	220KV MUZ-DHALKEBAR (Nepal) -1 & 2 Line	05-12-2019	09:30	08-12-2019	17:30	OCB	POWERGRID ER-I	DE-STRINGING & RE-STRINGING OF ONE SPAN OF 400KV LINE IN NEAR BY MUZZAFFARPUR SUBSTATION. PLCC & DPC ERECTION, TESTING & COMMISSIO. FOTE PANEL SHIFTING & LINE TESTING ETC.	NLDC	SUBJECT TO NEPAL CONSENT

136	400KV PATNA-BALIA-IV	05-12-2019	09:00	05-12-2019	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF PORCELAIN INSULATOR BY POLYMER	NLDC	
137	400 kV MAITHON-KAHALGAON CKT-1	05-12-2019	09:00	05-12-2019	17:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF DECAPPED INSULATOR AT LOC NO.-299.		
138	220 KV Binaguri-Birpara ckt-I	05-12-2019	08:00	05-12-2019	17:00	ODB	POWERGRID, ER-II	Conductor repairing ,defect liquidation & jumper rectification		
139	220KV Siliguri Dalkhola Ckt-1	05-12-2019	09:00	06-12-2019	17:00	OCB	POWERGRID, ER-II	For retrofitting of Numerical Distance(M-I) relay and Numerical A/R relay		
140	220KV BUS-1 at Maithon	05-12-2019	10:00	05-12-2019	18:00	ODB	POWERGRID, ER-II	dismantling of bus jumper of 220kV Dumka-1&2 line	DVC	
141	315 MVA ICT#1 at Subhasgram	05-12-2019	09:00	05-12-2019	17:00	ODB	POWERGRID, ER-II	For AMP Work	WB	
142	Arambag-New Chanditala 400 KV Line	05-12-2019	06:00	05-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
143	220 KV Patna(PG)-Khgaul ckt2	05-12-2019	11:00	05-12-2019	11:30	ODB	BSPTCL	For checking of unwanted tripping due to PLCC	Khagaul will avail power alternate sources	
144	220 KV Patna(PG)-Khgaul ckt3	05-12-2019	12:00	05-12-2019	12:30	ODB	BSPTCL	For checking of unwanted tripping due to PLCC	Khagaul will avail power alternate sources	
145	400 kV Meramundali-Mendhasal Ckt-I	05-12-2019	07:00	07-12-2019	16:00	ODB	OPTCL	Automation work		
146	220kV Rengali- Rengali (PG) Ckt.I	05-12-2019	07:00	05-12-2019	16:00	ODB	OPTCL	Annual maintenance		
147	400/220/132KV grid s/s Meramundali(400 kV Bus-II)	05-12-2019	07:00	06-12-2019	16:00	ODB	OPTCL	Annual maintenance		
148	132kV Gangtok Ckt-II- Rangpo Line	05-12-2019	08:00	05-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
149	132kV Rangit-Rangpo Line	05-12-2019	08:00	05-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
150	400KV GIS Main Bay-436 & Tie Bay-437 of ICT-3 at Sundergarh	05-12-2019	09:00	06-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	For 765kV ICT3 construction works and AMP works		
151	765kV ICT 2 Main Bay 707	05-12-2019	10:00	05-12-2019	17:00	ODB	ER-II/Odisha/Angul SS	AMP Work	NLDC	
152	400kV Siliguri-2 & ICT-1 Tie Bay (405-52 Bay) at New Purnea	05-12-2019	10:00	05-12-2019	18:00	ODB	POWERGRID ER-I	AMP work		
153	Main Bay MUZZAFARPUR 1 at Biharshariff 403 Bay	05-12-2019	09:30	05-12-2019	18:00	ODB	POWERGRID ER-I	AMP WORK		
154	206 bay (ICT2 220KV SIDE) AT CHAIBASA	05-12-2019	09:30	05-12-2019	17:30	ODB	POWERGRID ER-I	AMP OF 206 BAY		
155	420 Tie bay of Barh 3 and ballia 3 AT PATNA	05-12-2019	13:00	05-12-2019	17:30	ODB	POWERGRID ER-1	AMP		
156	416 bay Ballia -IV Main bay AT PATNA	05-12-2019	09:30	07-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updation works under SS03 package		
157	Tie Bay of 765 KV B/R-I (Bay 712) at New Ranchi	05-12-2019	09:00	06-12-2019	17:00	ODB	POWERGRID ER-I	AMP	NLDC	
158	406 Bay (BR-I & II Main bay) at Durgapur	05-12-2019	07:12	05-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works		
159	315MVA, ICT-1 at Balangir	06-12-2019	09:00	06-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 315MVA, ICT-1	GRIDCO	
160	132 kV Ara Dumraon	06-12-2019	10:00	06-12-2019	17:00	On Daily Basis	POWERGRID ER-I	Distance Relay replacement depending upon GE Engineer Visit	BIHAR	AFTER PUSAULI ICT SHUTDOWN
161	500MVA ICT-1 at New Purnea	06-12-2019	10:00	06-12-2019	18:00	ODB	POWERGRID ER-I	For Retrofitting work of back up impedance relay	BIHAR	
162	400/220 KV 315 MVA ICT-2 AT MUZAFFARPUR	06-12-2019	09:30	08-12-2019	17:30	OCB	POWERGRID ER-I	OLTIC OVERHAULING	BIHAR	
163	400 kV MUZAFFARPUR DARBHANGA CKT -2	06-12-2019	09:30	07-12-2019	17:30	ODB	POWERGRID ER-I	STRINGING OF ONE SPAN OF 400 KV MUZAFFARPUR-DHALKEBAR LINE.		
164	400 kV Main Bus-I at Lakhisarai	06-12-2019	09:30	06-12-2019	17:30	ODB	POWERGRID ER-I	Construction works of ICT-3	BIHAR	
165	220 kV BUS-1 at Purnea	06-12-2019	09:00	20-12-2019	17:00	ODB	ER-1	AMP 2019-20	BIHAR	
166	400KV Binaguri-Tala-2 line	06-12-2019	08:00	06-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays	NLDC	
167	220 KV Binaguri-Birpara CKT-II	06-12-2019	08:00	06-12-2019	17:00	ODB	POWERGRID, ER-II	Defect liquidation & repairing of condutor cutting		
168	400 KV Binaguri Bongaigaon Ckt I	06-12-2019	06:00	07-12-2019	18:00	ODB	POWERGRID, ER-II	Attending shut down nature of defects	NLDC	
169	400 kV Malda-Farakka-I	06-12-2019	08:00	06-12-2019	17:00	ODB	POWERGRID, ER-II	A/R Retrofitting,AMP		
170	220KV BUS-2 at Maithon	06-12-2019	10:00	08-12-2019	18:00	ODB	POWERGRID, ER-II	Stringing of 220KV JACK BUS	DVC	
171	220kV Maithon-DUMKA Line1&2	06-12-2019	10:00	08-12-2019	18:00	ODB	POWERGRID, ER-II	Stringing of 220kV JACK BUS	JSEB	
172	220KV Maithon-Dumka I&II	06-12-2019	08:00	07-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line	JSEB	
173	400 KV Durgapur-Sagardighi Line-II	06-12-2019	07:12	06-12-2019	17.3	ODB	POWERGRID, ER-II	A/R Relay testing for main & Tie CB	WB	
174	400KV D/C Sagardighi-Durgapur Line CKT-1	06-12-2019	09:00	06-12-2019	17:00	ODB	POWERGRID, ER-II	Rectification of damaged conductor strand(Critical)	WB	
175	400 KV Main Bus -I at Subhasgram SS	06-12-2019	09:00	06-12-2019	17:00	ODB	POWERGRID, ER-II	AMP of 400 KV Main Bus -I at Subhasgram SS	WB	
176	400KV KTHPP-Kharagpur #I	06-12-2019	06:00	07-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
177	220kV DTPS-B'nagar Ckt#2	06-12-2019	09:00	06-12-2019	17:00	ODB	DVC	for Jumper point tightness checking,hardware inspection of the Line.		

178	220 KV Sonenagar(New)-Gaya(PG) ckt2	06-12-2019	11:00	06-12-2019	16:00	ODB	BSPTCL	For line maintenance work	Sonenagar(New) will avail power alternate sources	
179	220 KV Budhipadar- Korba Ckt.II	06-12-2019	07:00	07-12-2019	16:00	ODB	OPTCL	Annual maintenance	NLDC	
180	132KV Gangtok Ckt-II- Rangpo Line	06-12-2019	08:00	06-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
181	132KV Rangit-Rangpo Line	06-12-2019	08:00	06-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
182	400 kV 411 Tie Bay of Baripada-Pandiabili & Baripada-TISCO line	06-12-2019	09:00	07-12-2019	17:30	OCB	ER-II/Odisha/BARIPADA S/S	Gasket replacement		
183	Jeypore- Rengali Tie Bay (402)	06-12-2019	09:00	06-12-2019	18:00	ODB	ER-II/Odisha/Indravati	AMP works of Jeypore- Rengali Tie Bay (402). Power flow will be Interrupted in 400KV Jeypore Line Due to temporary shutdown of UIHEP Main bay(412) at Indravati.	NLDC	
184	400 KV Keonjhar- Talcher # 1 Tie Bay (Bay No-402)	06-12-2019	09:00	06-12-2019	17:00	ODB	ER-II/Odisha/Rengali	AMP & MOM Box Retrofitting		
185	Main Bay of Jsr-Andal line 1(415 Bay) at Jamshedpur	06-12-2019	09:30	06-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
186	TIE Bay of Purnia 2 and Ballia 1 405 Bay at BiharSharif	06-12-2019	09:30	06-12-2019	18:00	ODB	POWERGRID ER-I	AMP WORK		
187	406 BAY (ICT2 MAIN BAY) AT CHAIBASA	06-12-2019	09:30	06-12-2019	17:30	ODB	POWERGRID ER-I	AMP OF406 BAY		
188	410 Bay(Main bay of 400 KV Dtg-Ssrm line-2) AT DALTANGANJ	06-12-2019	09:30	06-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP		
189	500MVA ICT1(403) with TIE (402) & IV Bay(203) at Rajarhat	06-12-2019	08:00	06-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work of GIS Bay and related equipment prior to completion of one year	WB	
190	500MVA ICT-2 at New Punea	07-12-2019	10:00	07-12-2019	18:00	ODB	POWERGRID ER-I	For Retrofitting work of back up impedance relay	BIHAR	
191	400KV North Bus-2 at Pusauli	07-12-2019	09:00	07-12-2019	18:00	ODB	POWERGRID ER-I	AMP work	NLDC	
192	400 KV KODERMA-BOKARO TL - 1	07-12-2019	10:00	07-12-2019	12:00	ODB	POWERGRID ER-1	Replacement of insulator damaged by miscreant	DVC	
193	400/220kV 315 MVAICT -1 at Rangpo	07-12-2019	08:00	11-12-2019	17:00	OCB	POWERGRID, ER-II	For rectification of SF6 gas leakage repair work,		
194	220 KV Bus Coupler at Birpara	07-12-2019	08:00	07-12-2019	17:00	ODB	POWERGRID, ER-II	AMP works		
195	400 kV Malda-Farakka-II	07-12-2019	08:00	07-12-2019	17:00	ODB	POWERGRID, ER-II	A/R Retrofitting,AMP		
196	220 KV Main Bus-I at Subhasgram SS	07-12-2019	09:00	07-12-2019	17:00	ODB	POWERGRID, ER-II	AMP of 220 KV Main Bus-I at Subhasgram SS	WB	
197	220kV DTPS-B'nagar Ckt#1	07-12-2019	09:00	07-12-2019	17:00	ODB	DVC	for Jumper point tightness checking,hardware inspection of the Line.		
198	132 KV Lakhisarai(PG)-Lakhisarai D/C T/L	07-12-2019	12:30	07-12-2019	13:30	ODB	BSPTCL	for connection of DC change over switch to existing DCDB & battery charger.	Lakhisarai will avail power from alternate sources.	
199	220kV Rengali- Rengali (PG) Ckt.II	07-12-2019	07:00	07-12-2019	16:00	ODB	OPTCL	Annual maintenance		
200	132KV Gangtok Ckt-II- Rangpo Line	07-12-2019	08:00	07-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
201	132KV Rangit-Rangpo Line	07-12-2019	08:00	07-12-2019	17:00	ODB	MBPCL	For Tower Erection work in Loc-29	SIKKIM	
202	400 KV CHAIBASA #2 LINE BAY &LR	07-12-2019	09:00	07-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	DEFFRED	
203	400kV Bus Reactor 1 Main Bay 416(125MVAR)	07-12-2019	09:00	07-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work		
204	400KV RANCHI-NEW RANCH-3 & BUS REACTOR-2, TIE BAY at Ranchi	07-12-2019	09:30	07-12-2019	17:00	ODB	POWERGRID ER-I	AMP		
205	421 Main bay Barh-3 AT PATNA	07-12-2019	16:00	07-12-2019	17:30	ODB	POWERGRID ER-1	AMP		
206	A/R OF 400KV Sundergarh-Raigarh Ckt #3	08-12-2019	08:00	15-12-2019	17:30	ODB	ER-II/Odisha/Sundergarh	For PID Testing of Porcelain Insulator. Only Auto reclose	NLDC	
207	315MVA ICT # II at Jeypore	08-12-2019	09:00:00	08-12-2019	18:00:00	ODB	ER-II/Odisha /Jeypore	AMP of ICT # II and testing of Back up Impedance relay	GRIDCO	
208	132 KV Lakhisarai(PG)-Jamui D/C T/L	08-12-2019	11:00	08-12-2019	15:00	ODB	BSPTCL	For line maintenance work	Jamui will avail power from alternate sources	
209	132KV Ara(PG)-Dumraon S/C T/L	08-12-2019	10:00	08-12-2019	12:00	ODB	BSPTCL	For Railway crossing strigning work	Dumraon will avail power from alternate sources with restrcted load	
210	400 kV 408 Tie Bay of Baripada-Duburi & Baripada-Jamshedpur line	08-12-2019	09:00	09-12-2019	17:30	OCB	ER-II/Odisha/BARIPADA S/S	Gasket replacement		
211	415 Main Bay Ballia 1 AT PATNA	08-12-2019	09:30	12-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updraton works under SS03 package		
212	400 kV BUS COUPLER bay at CHANDWA	08-12-2019	09:00	08-12-2019	18:00	ODB	POWERGRID ER-I	AMP		
213	315MVA, ICT-2 at Balangir	09-12-2019	09:00	09-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 315MVA, ICT-2	GRIDCO	
214	400 KV Talcher # 1 Line	09-12-2019	09:00	09-12-2019	17:00	ODB	ER-II/Odisha/Rengali	To attend S/D nature Defects		
215	765kV Sundargarh-Dharamjaygarh Ckt#1	09-12-2019	10:00	09-12-2019	17:30	ODB	ER-II/Odisha/Sundergarh	TL Maint work	NLDC	

216	765kV Sundergarh-darlipalli Ckt 1	09-12-2019	09:00	09-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	Quad to twin modification of jumper works and BPI erection works +TL Maint work	NLDC	
217	400KV Keonjhar-Baripada Line	09-12-2019	07:00	09-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	Replacement of Line CVT (B-phase) having volatge drop problem.		
218	765/400KV, 1500MVA ICT-1	09-12-2019	09:00	09-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work	NLDC	
219	765 KV Gaya-Balia	09-12-2019	09:00	09-12-2019	17:00	ODB	POWERGRID ER-I	Replacement of insulators damaged by miscreants	NLDC	
220	132 kV Ara Ara (BSPTCL)	09-12-2019	10:00	09-12-2019	17:00	On Daily Basis	POWERGRID ER-I	Distance Relay replacement depending upon GE Engineer Visit	BIHAR	AFTER PUSAULI ICT SHUTDOWN
221	400KV BUS-2 AT MUZAFFARPUR	09-12-2019	09:30	10-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK	BIHAR	
222	400 KV GAYA-CHANDWA-I	09-12-2019	09:00	09-12-2019	18:00	ODB	POWERGRID ER-I	CONSTRUCTION WORK OF NOTH KARNPURA BAY		
223	400 kV Main Bus-2 at Lakhisarai	09-12-2019	09:30	09-12-2019	17:30	ODB	POWERGRID ER-I	Construction works of ICT-3	BIHAR	
224	220 kV BUS-2 at Purnea	09-12-2019	09:00	22-12-2019	17:00	ODB	ER-1	AMP 2019-20	BIHAR	
225	400/220KV 315MVA ICT-5 at Rangpo	09-12-2019	09:00	09-12-2019	18:00	ODB	POWERGRID, ER-II	AMP Works		
226	400KV Bus#1 at Binaguri	09-12-2019	09:00	10-12-2019	17:00	ODB	POWERGRID, ER-II	Busbar stability and GIS connection, Rangpo Bay upgradation work (Bus isolator dismantling / erection)- 2 occasions		
227	400KV Binaguri-Bongaigaon-1 line	09-12-2019	08:00	09-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays	NLDC	
228	220KV Birpara-Chukha Ckt-II	09-12-2019	08:00	09-12-2019	17:30	ODB	POWERGRID, ER-II	AMP works	NLDC	
229	Alipurduar - New Siliguri D/C (QUAD) Line (STERLITE)	09-12-2019	06:00	12-12-2019	18:00	ODB	POWERGRID, ER-II	Stringing at crossing between Loc. No. 13/0 - 14/0 of Jigmeling line and loc. No. 292-293 of Sterlite Line		
230	400/220 KV 315 MVA ICT-3 at Malda	09-12-2019	08:00	08-02-2020	17:00	OCB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB	
231	400 kV TBC at Malda	09-12-2019	08:00	08-01-2020	17:00	OCB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB	
232	400KV D/C Sagartidighi-Durgapur Line CKT-2	09-12-2019	09:00	09-12-2019	17:00	ODB	POWERGRID, ER-II	Rectification of damaged Dead End/ Jumper (Critical)	WB	
233	220 KV Main Bus-II at Subhasgram SS	09-12-2019	09:00	09-12-2019	17:00	ODB	POWERGRID, ER-II	Remaining AMP of 220 KV Main Bus-II at Subhasgram SS	WB	
234	Barh Patna Line # 1	09-12-2019	09:30	10-12-2019	18:00	ODB	BARH	For operation testing from SCADA & AUTO RECLOSE RELAY TESTING		
235	400 KV Arambag -KTPP	09-12-2019	06:00	09-12-2019	15:00	ODB	WBSPTCL	Winter maintenance		
236	400KV Koderma-B'sariff Ckt#1	09-12-2019	10:00	10-12-2019	17:00	ODB	DVC	for annual relay maintenance work at Kodema		
237	400KV MTPS- Maithon PG Ckt#3	09-12-2019	09:00	10-12-2019	17:00	ODB	DVC	For preventive maintenance		
238	132KV Ara(PG)-Dumraon S/C T/L	09-12-2019	10:00	09-12-2019	13:00	ODB	BSPTCL	For Railway crossing strigning work	Dumraon will avail power from alternate sources with restrcted load	
239	315 MVA ICT-II at Mendhasal grid S/s	09-12-2019	07:00	10-12-2019	16:00	ODB	OPTCL	Automation work		
240	400KV FARAKKA-SAGARDIGHI-I	09-12-2019	09:00	10-12-2019	17:00	ODB	FSTPP	CB AND RELAY TESTING	WB	
241	400 KV SUNDARGARH #4 LINE BAY	09-12-2019	09:00	09-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		
242	Main Bay 707 of 765kV ANGUL 4 at Sundargarh SS	09-12-2019	09:00	10-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works and oil sampling works at Y ph CT	NLDC	
243	415 Main Bay of 400kV Bolangir Line	09-12-2019	09:00:00	09-12-2019	18:00:00	ODB	ER-II/Odisha /Jeypore	AMP Works of 415 Main Bay		
244	Main Bay of Jsr- Mejia line (406 bay) at Jamshedpur	09-12-2019	09:30	09-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
245	414 Tie Bay (400 kV side Gaya-Chandwa-I & Future) at Gaya	09-12-2019	09:00	09-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work		
246	400KV Muzaffarpur-2 Main Bay (409-52 Bay) at New Purnea	09-12-2019	10:00	09-12-2019	18:00	ODB	POWERGRID ER-I	AMP work		
247	400kV Tie Bay of HVDC (CWD10Q50) at Pusaui	09-12-2019	09:00	09-12-2019	18:00	ODB	POWERGRID ER-I	AMP work		
248	400KV RANCHI-NEW RANCH-3, MAIN BAY at Ranchi	09-12-2019	09:30	09-12-2019	17:00	ODB	POWERGRID ER-I	AMP		
249	201 bay(HV side bay of 160 MVA ATR-1) AT DALTANGANJ	09-12-2019	09:30	09-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP		
250	422 Main bay Ballia 4 AT PATNA	09-12-2019	10:00	09-12-2019	17:30	ODB	POWERGRID ER-1	AMP		
251	417 Tie bay Ballia 2 & Barh 2 AT PATNA	09-12-2019	09:30	12-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updratn works under SS03 package		
252	Main Bay of NRNC-DMG CKT-2 (Bay no 715) at New Ranchi	09-12-2019	09:00	10-12-2019	17:00	ODB	POWERGRID ER-I	AMP	NLDC	
253	412 Bay (Farakka-I Main Bay)	09-12-2019	07:12	09-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works		
254	400 KV Talcher # 2 Line	10-12-2019	09:00	10-12-2019	17:00	ODB	ER-II/Odisha/Rengali	To attend S/D nature Defects		
255	400KV Sundergarh-Rourkela Ckt #1	10-12-2019	10:00	10-12-2019	19:00	ODB	ER-II/Odisha/Sundergarh	AMP works & Conductor repair		
256	400KV Keonjhar-Rengali Line	10-12-2019	07:00	11-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	Replacement of Porcelain insulator by Polymer insulators in NH crossing and attending SD nature defects. Shutdown shall be taken if not availed in NOV'19.		
257	132 kV Ara Jagdishpur Ckt 1	10-12-2019	10:00	10-12-2019	17:00	On Daily Basis	POWERGRID ER-I	Distance Relay replacement depending upon GE Engineer Visit	BIHAR	

258	400kV JSR- Baripada Line	10-12-2019	09:30	10-12-2019	17:30	ODB	POWERGRID ER-I	Replacement of Insulator damaged by miscreant at loc 188		
259	400KV KGP1 LINE	10-12-2019	09:30	10-12-2019	17:30	ODB	POWERGRID ER-I	AUTORECLOSE TEST OF KGP 1 LINE	WB	
260	220kV New Melli-Rangpo Line	10-12-2019	10:00	10-12-2019	17:00	ODB	POWERGRID, ER-II	CRM Testing & SF6 Dew Point Measurement		
261	220KV Siliguri Binaguri Ckt-2	10-12-2019	09:00	10-12-2019	17:00	ODB	POWERGRID, ER-II	Retrofitting of numerical A/R relay		
262	220 KV Birpara-New Siliguri Ckt-I	10-12-2019	08:00	10-12-2019	17:30	ODB	POWERGRID, ER-II	Rectification of displaced VD and Loose A/H and Jumper tightning, damage conductor repair		
263	400KV BUS-II at Malda	10-12-2019	08:00	10-12-2019	17:00	ODB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB	
264	400KV Malda-Purnea-II	10/12/19	08:00	19/12/19	17:00	ODB	POWERGRID, ER-II	Repacement of Porcelene Insulator with Polymer Insulator		
265	400KV Maithon-Right Bank #I	10-12-2019	08:00	24-12-2019	18:00	OCB	POWERGRID, ER-II	Re conducting work	MPL	
266	Non Autoreclose mode 400KV Maithon-Right Bank #II	10-12-2019	08:00	24-12-2019	18:00	OCB	POWERGRID, ER-II	MTN RB Ckt-II will be kept in NON-Auto during Re conducting in MTN RB Ckt-I for safety measure.		
267	400 KV BUS-IV at Durgapur	10-12-2019	07:12	10-12-2019	17.3	ODB	POWERGRID, ER-II	Bus jumper tightness & AMP	DVC	
268	400 KV Subhasgram Rajarhat Line	10-12-2019	09:00	10-12-2019	17:00	ODB	POWERGRID, ER-II	A/R Retrofitting & Testing	WB	
269	400 KV Arambag -KTPP	10-12-2019	06:00	10-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
270	SgTPP: 315MVA ICT	10-12-2019	06:00	11-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
271	220kV Khizersarai-Gaya PG ckt # 1	10-12-2019	08:00	11-12-2019	16:00	ODB	BSPTCL	For tower top patrolling and maintenance work	No Load Restriction	
272	132 KV Sultanganj-Deoghar S/C T/L	10-12-2019	09:00	12-12-2019	16:00	ODB	BSPTCL	For tower top patrolling and maintenance work	No Load Restriction	
273	400/220KV Grid S/S,Mendhasal (400KV S/Y)	10-12-2019	07:00	10-12-2019	16:00	ODB	OPTCL	Annual maintenance		
274	400KV BUS-VI	10-12-2019	06:00	11-12-2019	18:00	ODB	TSTPS/NTPC	Bus CVT-3 NOS replacement and replacement of busbar differential relay element		
275	400 KV HVDC Feeder - 3 (TSTPS to PGCL,HVDC,Talcher)	10-12-2019	06:00	11-12-2019	18:00	ODB	TSTPS/NTPC	Feeder-3 is in same bus VI. So Feeder 3 will be out alongwith Bus VI shut down		
276	132KV Gangtok Ckt-II- Rangpo Line	10-12-2019	08:00	12-12-2019	17:00	OCB	MBPCL	For Stringing from Loc-28 to 29	SIKKIM	
277	132KV Rangit-Rangpo Line	10-12-2019	08:00	12-12-2019	17:00	OCB	MBPCL	For Stringing from Loc-28 to 29	SIKKIM	
278	400 kV 410 main Bay of Baripada-Pandiabili line	10-12-2019	09:00	11-12-2019	17:30	OCB	ER-II/Odisha/BARIPADA S/S	Gasket replacement		
279	Rengali Main Bay (403)	10-12-2019	09:00	10-12-2019	18:00	ODB	ER-II/Odisha/Indravati	AMP works of Rengali Main Bay (403). Power flow will be Interrupted in 400KV Indravati-UIHEP Line Due to temporary shutdown of UIHEP Main bay(412) at Indravati.	GRIDCO	
280	765KV Angul-Sundargarh Ckt 1 MAIN Bay 709	10-12-2019	09:00	10-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work	NLDC	
281	415 Main Bay (400 kV side Gaya-Chandwa-I) at Gaya	10-12-2019	09:00	10-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work		
282	400kV Biharshariff-1 Main Bay (424-52 Bay) at New Purnea	10-12-2019	10:00	10-12-2019	18:00	ODB	POWERGRID ER-I	AMP work		
283	400kV Main Bay of HVDC (CWD50Q51) at Pusaali	10-12-2019	09:00	10-12-2019	18:00	ODB	POWERGRID ER-I	AMP work		
284	400KV Main bay 412 bay AT PATNA	10-12-2019	09:30	25-12-2019	17:30	ODB	POWERGRID ER-1	Uprating of isolator and CT		
285	423 bay Tie bay of Barh 4 and Ballia 4 AT PATNA	10-12-2019	13:00	10-12-2019	17:30	ODB	POWERGRID ER-1	AMP		
286	413 Main Bay Ballia 1 AT PATNA	10-12-2019	09:30	12-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updraton works under SS03 package		
287	Main bay of 400KV Maithon-MPL Ckt#1,(Bay no 403) at MPL	10-12-2019	09:00	24-12-2019	18:00	OCB	POWERGRID, ER-II	Upgradation of Bay equipmenets under ERSS-XVII Project work. Shut down of Bays proposed in respect of line shut down for reconductoring work.		
288	400KV Balangir-Angul Line	11-12-2019	08:00	13-12-2019	18:00	ODB	ER-II/Odisha/Balangir	Replacement of defective insulator by Polymer long Rod Insulator	NLDC	
289	A/R OF 400 KV Rengali - Talcher # 2 Line(Non-Auto)	11-12-2019	08:00	21-12-2019	17:00	ODB	ER-II/Odisha/Rengali	For PID Measurement		
290	765KV Bus 1	11-12-2019	09:00	11-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work	NLDC	
291	400/220kV 315 MVAICT -3 at Rangpo	11-12-2019	08:00	16-12-2019	17:00	OCB	POWERGRID, ER-II	For rectification of SF6 gas leakage repair work,		
292	400KV Bus#2 at Binaguri	11-12-2019	09:00	12-12-2019	17:00	ODB	POWERGRID, ER-II	Busbar stability and GIS connection, Rangpo Bay upgradation work (Bus isolator dismantling / erection)- 2 occasions		
293	400KV Binaguri-Bongaigaon-2 line	11-12-2019	08:00	11-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays	NLDC	
294	220 KV Birpara-New Siliguri Ckt-I	11-12-2019	08:00	11-12-2019	17:30	ODB	POWERGRID, ER-II	Rectification of displaced VD and Loose A/H and Jumper tightning, damage conductor repair		
295	400/220/33kV ICT - I at Alipurduar	11-12-2019	07:00	11-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work (400kV, 220kV, 33kV bay & ICT-I)		
296	400KV BUS-I at Malda	11-12-2019	08:00	11-12-2019	17:00	ODB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB	
297	220 KV Maithon-Dhanbad I&II	11-12-2019	08:00	12-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	DVC	
298	400 KV Durgapur-Sagardighi Line-I	11-12-2019	07:12	11-12-2019	17.3	ODB	POWERGRID, ER-II	A/R Relay testing for main & Tie CB	WB	
299	220KV RAJARHAT-NEWTOWN-AA3- CKT-1	11-12-2019	08:00	11-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work of GIS Bay and related equipment prior to completion of one year	WB	

300	400 KV Jeerat Sagardighi Line	11-12-2019	09:00	11-12-2019	17:00	ODB	POWERGRID, ER-II	A/R relay Testing in 400 KV Jeerat Sagardighi Line and Live line defects attending and defective isulator replacement in line..	WB	
301	Barh Patna Line # 2	11-12-2019	09:30	12-12-2019	19:00	ODB	BARH	For operation testing from SCADA & AUTO RECLOSE RELAY TESTING		
302	400 KV Arambag -KTPP	11-12-2019	06:00	11-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
303	400KV Koderma-B'sariff Ckt#2	11-12-2019	10:00	12-12-2019	17:00	ODB	DVC	for annual relay maintenance work at Kodema		
304	400KV MTPS- JSR PG Ckt	11-12-2019	09:00	12-12-2019	17:00	ODB	DVC	For preventive maintenance		
305	132KV Kuchel-Jaleswar Ckt-I(Loc no-01 to 301)	11-12-2019	07:00	11-12-2019	16:00	ODB	OPTCL	Annual maintenance		
306	220KV S/Y at Grid S/S,Atri	11-12-2019	07:00	11-12-2019	16:00	ODB	OPTCL	Annual maintenance		
307	400 KV MAIN BAY OF SUNDARGARH#1 (418)	11-12-2019	09:00	11-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		
308	400kv GIS tie bay no. 434 & 435 of ICT4 & OPGC 1 at Sundargarh	11-12-2019	09:00	12-12-2019	17:00	ODB	ER-II/Odisha/Sundergarh	For 765kv ICT-4 construction works and AMP works		
309	Main Bay 710 of 765kv ANGUL 3 at Sundargarh SS	11-12-2019	09:00	12-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works	NLDC	
310	400KV Main Bus-I at Baripada	12-12-2019	09:00	12-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		
311	765kv Bus 2	12-12-2019	09:00	12-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work	NLDC	
312	132 kv Ara Jagdishpur Ckt 2	12-12-2019	10:00	12-12-2019	17:00	On Daily Basis	POWERGRID ER-I	Distance Relay replacement depending upon GE Engineer Visit	BIHAR	AFTER PUSAULI ICT SHUTDOWN
313	765 KV GAYA-BALIA-S/C	12-12-2019	09:00	19-12-2019	18:00	ODB	POWERGRID ER-I	For Strengthening of 765 kV line Suspension Delta Tower	NLDC	
314	400 KV Pusauli -Biharsharif Line-2	12-12-2019	09:00	16-12-2019	19:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings and Relay Retrofitting		
315	400KV RANCHI-ROURKELA-2 TL	12-12-2019	09:00	12-12-2019	17:00	ODB	POWERGRID ER-I	FOR FLASHED INSULATOR REPLACEMENT AT LOCATION NO. 15,97,273 &277		
316	400KV KGP2 LINE	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	AUTORECLOSE TEST OF KGP 1 LINE	WB	
317	400 KV GAYA-CHANDWA-II	12-12-2019	09:00	12-12-2019	18:00	ODB	POWERGRID ER-I	CONSTRUCTION WORK OF NOTH KARNPURA BAY		
318	400 KV NEW RANCHI-CHANDWA-I	12-12-2019	09:00	12-12-2019	18:00	ODB	POWERGRID ER-I	CONSTRUCTION WORK OF NOTH KARNPURA BAY		
319	132 kv Main Bus at Lakhisarai	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	Construction works of ICT-3	BIHAR	
320	50 MVA ICT-I 132/66 KV at Gangtok	12-12-2019	09:00	12-12-2019	18:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM	
321	220KV Rangpo - Tashiding	12-12-2019	09:00	12-12-2019	18:00	ODB	POWERGRID, ER-II	AMP Works		
322	220KV Siliguri Binaguri Ckt-1	12-12-2019	09:00	12-12-2019	17:00	ODB	POWERGRID, ER-II	Retrofitting of numerical A/R relay		
323	220KV Bus-Coupler at Dalkhola	12-12-2019	09:00	12-12-2019	17:00	ODB	POWERGRID, ER-II	For AMP	WB	
324	400KV Berhampore Sagardighi-1 Line	12-12-2019	09:00	12-12-2019	17:00	ODB	POWERGRID, ER-II	For Line Construction work of Bheramara-3&4	WB	
325	400 KV Subhasgram Sagardighi Line.	12-12-2019	09:00	14-12-2019	17:00	ODB	POWERGRID, ER-II	VT Selection work, A/R relay retrofitting & testing and Live line defects attending and defective isulator replacement in line.	WB	
326	Arambag: 315 MVA ICT-1	12-12-2019	06:00	12-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
327	132 kv Bettiah-Narkatiyaganj-Ramnagar T/L	12-12-2019	09:00	13-12-2019	18:00	ODB	BSPTCL	For line maintenance work	1. GSS Ramnagar will avail power from Nepal 2.GSS Narkatiyaganj will be powerless.	
328	220kv Khizersarai-Gaya PG ck t# 2	12-12-2019	08:00	13-12-2019	16:00	ODB	BSPTCL	For tower top patrolling and maintenance work	No Load Restriction	
329	220 KV Dehri-Pushauli(PG) S/C T/L	12-12-2019	09:00	12-12-2019	12:00	ODB	BSPTCL	220 KV Main Bus maintenance work	Dehri will avail power from Gaya(PG)	
330	400 kv Meramundali-Mendhasal Ckt-II	12-12-2019	07:00	13-12-2019	16:00	ODB	OPTCL	Automation work		
331	220kv Rengali- Kaniha Ckt. (Loc. 98 to Loc. 187)	12-12-2019	07:00	13-12-2019	16:00	ODB	OPTCL	Annual maintenance		
332	400 KV ICT # 2 Main Bay (Bay No-409)	12-12-2019	09:00	12-12-2019	17:00	ODB	ER-II/Odisha/Rengali	AMP & MOM Box Retrofitting		
333	400KV 40304 BAY AMP	12-12-2019	09:00	12-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	AMP Works.Shutdown shall be taken if not availed in NOV'19.		
334	Main Bay of Jsr- Maithon line (407 bay) at Jamshedpur	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
335	Main Bay of Jsr- Chaibasa 1 line (409 bay) at Jamshedpur	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
336	416 Main Bay (400 kV side 400/220kV ICT-I) at Gaya	12-12-2019	09:00	12-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work		
337	417 Tie Bay (400 kV Gaya-Chandwa-II & ICT-I) at Gaya	12-12-2019	09:00	12-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work		
338	Tie Bay of 400KV Muzaffarpur-2 & Kishanganj-1(408) at New Purnea	12-12-2019	10:00	12-12-2019	18:00	OCB	POWERGRID ER-I	MIDLIFE OVERHAULING OF ALSTOM MAKE CB & AMP TESTING		

339	Main Bay of 400kV Muzaffarpur-2(409) at New Purnea at New Purnea	12-12-2019	10:00	12-12-2019	18:00	OCB	POWERGRID ER-I	MIDLIFE OVERHAULING OF ALSTOM MAKE CB & AMP TESTING		
340	404 BAY (RKL1 Line MAIN BAY) AT CHAIBASA	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	AMP OF 404 BAY		
341	202 bay(HV side bay of 160 MVA ATR-2) AT DALTANGANJ	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP		
342	400 KV BSF-1-TIE -FUTURE BAY AT MUZAFFARPUR	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
343	400 KV BSF-2-TIE -FUTURE BAY AT MUZAFFARPUR	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
344	424 Main bay Barh 4 AT PATNA	12-12-2019	16:00	12-12-2019	17:30	ODB	POWERGRID ER-1	CB dew point measurement		
345	205 bay Bus coupler AT PATNA	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-1	AMP		
346	418 Main bay Barh 1 AT PATNA	12-12-2019	09:30	15-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updation works under SS03 package		
347	Reactor Bay of NRNC-DMG CKT-2 (Bay no 715R) at New Ranchi	12-12-2019	09:00	12-12-2019	17:00	ODB	POWERGRID ER-I	AMP	NLDC	
348	402 Bay (S,Dighi-I & future tie bay) at Durgapur	12-12-2019	07:12	12-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works		
349	Replacement of DGA Violated CTs with new GE make CTs.	13-12-2019	09:00	13-12-2019	18:00	OCB	ER-II/Odisha/HVDC Talcher	Outage of Pole-2 Main Bay (10C03-C-T1) on continuous basis for replacement of DGA violated CTs with new GE make CTs. However, Pole-2 shall be kept in service through 10C03-B Tie Bay . There shall be no interruption or any limitation of Powerflow & all the Filter Banks shall remain in Service during above conditions.	NLDC	
350	400KV Sundergarh-Raigarh Ckt #2	13-12-2019	08:00	13-12-2019	17:30	ODB	ER-II/Odisha/Sundergarh	TL Maintenance work	NLDC	
351	765kv Sundergarh-darlipalli Ckt 2	13-12-2019	09:00	13-12-2019	13:00	ODB	ER-II/Odisha/Sundergarh	Quad to twin modification of jumper works +TL Maint work	NLDC	
352	765kv Angul-Srikakulam Line 2 Tie 725	13-12-2019	09:00	13-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work	NLDC	
353	132kv Pusaali-Kudra	13-12-2019	09:00	13-12-2019	19:00	ODB	POWERGRID ER-I	FOR LINE BAY AMP	BIHAR	
354	400KV RANCHI-RAGHUNATHPUR-I TL	13-12-2019	09:00	13-12-2019	17:00	ODB	POWERGRID ER-I	FOR FLASHED INSULATOR REPLACEMENT AT LOCATION NO. 296, 370, 389 & 543	DVC	
355	400 KV NEW RANCHI-CHANDWA-II	13-12-2019	09:00	13-12-2019	18:00	ODB	POWERGRID ER-I	CONSTRUCTION WORK OF NOTH KARNPURA BAY		
356	220 KV BUS-COUPLER at Purnea	13-12-2019	09:00	25-12-2019	17:00	ODB	ER-1	AMP 2019-20	BIHAR	
357	132KV Rangit-kurseong Line	13-12-2019	10:00	13-12-2019	17:00	ODB	POWERGRID, ER-II	Damaged Conductor bottom Ph & Mid Ph loc 33-34	WB	
358	400KV Binaguri-Kishanganj-1 line	13-12-2019	08:00	13-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays		
359	400 KV Binaguri Bongaigaon Ckt II	13-12-2019	06:00	14-12-2019	18:00	ODB	POWERGRID, ER-II	Attending shut down nature of defects	NLDC	
360	220KV Dalkhola-Purnea # I	13-12-2019	09:00	13-12-2019	17:00	ODB	POWERGRID, ER-II	For AMP		
361	220 kV Bus-I at Malda	13-12-2019	08:00	13-12-2019	17:00	ODB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB	
362	400KV Maithon-Kahalgaon I&II	13-12-2019	08:00	14-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line		
363	400KV Berhampore Sagardighi-2 Line	13-12-2019	09:00	13-12-2019	17:00	ODB	POWERGRID, ER-II	For Line Construction work of Bheramara-3&4	WB	
364	220KV RAJARHAT-NEWTOWN-AA3- CKT-2	13-12-2019	08:00	13-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work of GIS Bay and related equipment prior to completion of one year	WB	
365	Barh Patna Line # 3	13-12-2019	09:30	14-12-2019	20:00	ODB	BARH	For operation testing from SCADA & AUTO RECLOSE RELAY TESTING		
366	Arambag: 315 MVA ICT-2	13-12-2019	06:00	13-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
367	400KV KTHP NewChanditala	13-12-2019	06:00	14-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
368	400kv SgTHP-Subhasgram(PG)	13-12-2019	06:00	13-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
369	220 Kv Muzaffarpur (PG)-Hajipur ckt-1	13-12-2019	10:00	13-12-2019	16:00	ODB	BSPTCL	For line maintenance work	No Load Restriction	
370	220 KV Gaya(PG)-Dehri ckt1	13-12-2019	09:00	13-12-2019	12:00	ODB	BSPTCL	220 KV Main Bus maintenance work	Dehri will avail power from Pushauli(PG)	
371	220 KV Gaya(PG)-Dehri ckt2	13-12-2019	09:00	13-12-2019	12:00	ODB	BSPTCL	220 KV Main Bus maintenance work	Dehri will avail power from Pushauli(PG)	
372	404 bay- 400KV Kharagpur Line Main Bay	13-12-2019	09:00	13-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		
373	400 KV MAIN BAY OF RANCHI#2 (421)	13-12-2019	09:00	13-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		
374	UIHEP-Bus Reactor Tie Bay (411)	13-12-2019	09:00	13-12-2019	18:00	ODB	ER-II/Odisha/Indravati	AMP works of UIHEP- BR Tie Bay (411).Power flow will be Interrupted in 400KV Indravati-UIHEP Line Due to temporary shutdown of UIHEP Main bay(412) at Indravati.	DEFFRED	
375	Main Bay 701 of 765kV B/R -I	13-12-2019	09:00	14-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works	NLDC	
376	400KV 40506 BAY AMP	13-12-2019	09:00	13-12-2019	18:00	ODB	ER-II/Odisha/Keonjhar	AMP Works.Shutdown shall be taken if not availed in NOV'19.		
377	Main Bay of Jsr- Durgapur line (404 bay) at Jamshedpur	13-12-2019	09:30	13-12-2019	17:30	ODB	POWERGRID ER-I	AMP WORK		
378	418 Main Bay (400 kV Gaya-Chandwa-II) at Gaya	13-12-2019	09:00	13-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work		

379	Main Bay of 400KV Siliguri Circuit-1 (BAY NO.401) at New Purnea	13-12-2019	09:30	13-12-2019	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF GASKET OF POLE COLOUMN OF Y-PH TO ATTEND THE SF6 LEAKAGE.		
380	203 bay(IV side of 315 MVA ICT-1) AT DALTANGANJ	13-12-2019	09:30	13-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP		
381	Tie Bay of 400KV ICT-2 & NRNC-RNC CKT-2 (Bay no 408) at New Ranchi	13-12-2019	09:00	13-12-2019	17:00	ODB	POWERGRID ER-I	AMP		
382	419 Bay (Maithon Line-II main bay) at Durgapur	13-12-2019	07:12	13-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works		
383	400KV Balangir-Jeypore Line	14-12-2019	08:00	15-12-2019	18:00	ODB	ER-II/Odisha/Balangir	Replacement of defective insulator by Polymer long Rod Insulator	NLDC	
384	765kV Raipur-I at Sundargarh	14-12-2019	09:00	14-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	BPI erection works at T-point	NLDC	
385	765kV ICT-II at Sundargarh SS	14-12-2019	09:30	14-12-2019	12:30	ODB	ER-II/ODISHA/SUNDERGARH	For taking spare in to servie in place of ICT-II,B ph for attending oil leakge	NLDC	
386	400KV TISCO- BARIPADA Line	14-12-2019	09:30	14-12-2019	17:30	ODB	POWERGRID ER-I	Flashed Insulator replacement at loc 208		
387	220 KV MAIN BUS-1 at Ranchi	14-12-2019	09:30	14-12-2019	17:00	ODB	POWERGRID ER-I	AMP and R-ph CVT replacement	JSEB	
388	132KV Rangit-kurseong Line	14-12-2019	10:00	14-12-2019	17:00	ODB	POWERGRID, ER-II	Damaged Conductor top Ph & Mid Ph loc 51-52	WB	
389	50 MVA ICT-II 132/66KV at Gangtok	14-12-2019	09:00	14-12-2019	18:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM	
390	160 MVA 220/132 KV ICT 1 at Siliguri	14-12-2019	09:00	14-12-2019	17:00	ODB	POWERGRID, ER-II	ICT AMP Work	WB	
391	220KV Birpara-Chukha Ckt-I	14-12-2019	08:00	14-12-2019	17:30	ODB	POWERGRID, ER-II	Retrofitting of Numerical Distance Relay	NLDC	
392	HVDC Biswanathchariali - Alipurduar Line 1&2 (POWERGRID)	14-12-2019	06:00	16-12-2019	18:00	ODB	POWERGRID, ER-II	Stringing at crossing between Powergrid Loc. No. 22/0 - 23/0 of Jigmeling line and loc. No. 8-9 of 800 KV APD-BNC LILO in.	NLDC	
393	220KV Dalkhola-Purnea # I	14-12-2019	09:00	14-12-2019	17:00	ODB	POWERGRID, ER-II	For AMP		
394	220 kV Bus-II Malda	14-12-2019	08:00	14-12-2019	17:00	ODB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB	
395	400kv SgTTP-Farakka#1	14-12-2019	06:00	14-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
396	132 KV Banka(PG)-Sabour D/C T/L line	14-12-2019	09:00	14-12-2019	14:00	ODB	BSPTCL	for stringing work in 132KV Sabour sultangnaj LILO to jagdishpur line between (Ap 23/0- Ap24/0).	1.Sabour will avail power from Goradih(GIS) 2.No load restriction	
397	220 Kv Muzaffarpur (PG)-Hajipur ckt-2	14-12-2019	10:00	14-12-2019	16:00	ODB	BSPTCL	For line maintenance work	No Load Restriction	
398	201 bay 220KV Baripada-Balasore Line -1	14-12-2019	09:00	14-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		
399	400 KV ICT # 1 & 2 Tie Bay (Bay No-408)	14-12-2019	09:00	14-12-2019	17:00	ODB	ER-II/Odisha/Rengali	AMP & MOM Box Retrofitting		
400	765kV ICT 2 & Sundargarh ckt 1 Tie Bay 708	14-12-2019	09:00	14-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work	NLDC	
401	425 Main Bay (400 kV side 400/220 ICT-II) at Gaya	14-12-2019	09:00	14-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work		
402	208 bay main bay sipara 1 AT PATNA	14-12-2019	09:30	14-12-2019	17:30	ODB	POWERGRID ER-1	AMP		
403	A/R OF 400KV Baripada-Keonjhar line	15-12-2019	09:00	25-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Line Auto-reclose switch is to be kept in Non-auto mode for Online PID scanning work of porcelain insulator of concerned line		
404	765 KV NEW RANCHI-DHARMAJAYGARH-II	15-12-2019	08:00	16-12-2019	18:00	ODB	POWERGRID ER-I	FOR POWER LINE CROSSING WORK OF 765 KV NEW RANCHI-MEDNIPUR LINE	NLDC	
405	220KV Dalkhola-Dalkhola(WB) # I	15-12-2019	09:00	15-12-2019	17:00	ODB	POWERGRID, ER-II	For AMP	WB	
406	400KV Maithon-Durgapur I&II	15-12-2019	08:00	16-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line		
407	A/R in non-auto mode in 220KV Binaguri-Siliguri-I & II	15-12-2019	07:00	31-12-2019	18:00	ODB	POWERGRID, ER-II	For OPGW installation Work		
408	220 KV DMTCL(Darbhanga)-Laukahi ckt1	15-12-2019	09:00	23-12-2019	16:00	ODB	BSPTCL	For line maintenance work	Laukahi will avail power from alternate sources	
409	220 KV DMTCL(Darbhanga)-Laukahi ckt2	15-12-2019	09:00	23-12-2019	16:00	ODB	BSPTCL	For line maintenance work	Laukahi will avail power from alternate sources	
410	202 bay 220KV Baripada-Balasore Line -2	15-12-2019	09:00	15-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		
411	701 MAIN Bay (765 kV BR-I) at Gaya	15-12-2019	09:00	15-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work		
412	210 bay main bay sipara 2 AT PATNA	15-12-2019	09:30	15-12-2019	17:30	ODB	POWERGRID ER-1	AMP		
413	414 bay Tie of Ballia 1 & Barh 2 AT PATNA	15-12-2019	09:30	18-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updraton works under SS03 package		
414	765KV ICT3 at Sundargarh SS	16-12-2019	09:00	16-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	CSD tuning works	NLDC	
415	765KV Sundargarh-Angul Ckt #3	16-12-2019	08:00	20-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	Work at TP Tower maintenance	NLDC	
416	A/R OF 400KV Sundergarh-Raigarh Ckt #2	16-12-2019	08:00	23-12-2019	17:30	ODB	ER-II/ODISHA/SUNDERGARH	For PID Testing of Porcelain Insulator. Only Auto reclose	NLDC	
417	400 kV Jeypore-Indravati S/C Line	16-12-2019	08:00:00	16-12-2019	18:00:00	ODB	ER-II/Odisha /Jeypore	For PID defect insulator replacement work and for attending S/D nature defects	NLDC	

418	400kV JSR- Andar 1 line	16-12-2019	09:30	16-12-2019	13:30	ODB	POWERGRID ER-I	LINE BAY CT TAN DELTA & LINE ISOLATOR ALIGNMENT WORKS	DVC	
419	132KV Pusauli-Mohania	16-12-2019	09:00	16-12-2019	19:00	ODB	POWERGRID ER-I	FOR LINE BAY AMP	BIHAR	
420	400 KV Patna Barh 2	16-12-2019	09:30	21-12-2019	17:30	OCB	POWERGRID ER-1	Commissioning of 125 MVAR Switchable line reactor in Patna Barh line 2 at Patna SS under SS03 package and jumper connection and testing		
421	765/400 KV,1500 MVA ICT-1 at New Ranchi	16-12-2019	09:00	17-12-2019	17:00	ODB	POWERGRID ER-I	AMP	NLDC	
422	132KV Gangtok-Rangpo-II Line	16-12-2019	09:00	16-12-2019	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM	
423	400KV Teesta-v Ckt-1	16-12-2019	09:00	16-12-2019	18:00	ODB	POWERGRID, ER-II	AMP Works	TEESTA-V	NHPC CONSENT REQUIRED
424	400KV Binaguri-Kishanganj-2 line	16-12-2019	08:00	16-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays		
425	220 KV Bus Coupler at Siliguri	16-12-2019	09:00	16-12-2019	17:00	ODB	POWERGRID, ER-II	BAY AMP WORK.		
426	220KV Birpara-Chukha Ckt-II	16-12-2019	08:00	16-12-2019	17:30	ODB	POWERGRID, ER-II	Retrofitting of Numerical Distance Relay	NLDC	
427	220KV Dalkhola-Dalkhola(WB) # II	16-12-2019	09:00	16-12-2019	17:00	ODB	POWERGRID, ER-II	For AMP	WB	
428	400kV Andar-Jamshedpur Ckt-I	16-12-2019	09:30	16-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC	
429	400 KV D/C Farakka-Berhampore line CKT-2	16-12-2019	09:00	16-12-2019	17:00	ODB	POWERGRID, ER-II	Rectification of shut down nature defects at some locations		
430	220KV RAJARHAT-JEERAT CKT-1	16-12-2019	08:00	16-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work of GIS Bay and related equipment prior to completion of one year	WB	
431	400 KV Rajarhat Jeerat Line	16-12-2019	09:00	16-12-2019	17:00	ODB	POWERGRID, ER-II	A/R relay retrofitting & testing and Main-1 Distance Relay Replacement.	WB	
432	Barh Patna Line # 4	16-12-2019	09:30	17-12-2019	21:00	ODB	BARH	For operation testing from SCADA & AUTO RECLOSE RELAY TESTING		
433	400KV Kharagpur- Baripada.	16-12-2019	06:00	16-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
434	400kv SgTPP-Parulia#1	16-12-2019	06:00	16-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
435	220 KV Joda-Jindal Feeder	16-12-2019	07:00	22-12-2019	16:00	OCB	OPTCL	Replacement of breaker and isolator	DVC	
436	220 KV Bus-I & II at Joda grid S/s	16-12-2019	07:00	17-12-2019	16:00	ODB	OPTCL	Annual maintenance	DVC	
437	400KV FARAKKA-KHSTPP-II	16-12-2019	09:00	19-12-2019	17:00	OCB	FSTPP	LINE EARTH SWITCH ERECTION AND COMMISSIONING		
438	211 bay(220KV side of 500MVA ICT #3)	16-12-2019	09:00	16-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		
439	400 KV Indravati Line Main Bay (Bay No-412)	16-12-2019	09:00	16-12-2019	17:00	ODB	ER-II/Odisha/Rengali	AMP & MOM Box Retrofitting		
440	Tie Bay 702 of 765kv B/R -I & ICT-1 at Sundargarh SS	16-12-2019	09:00	17-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works	NLDC	
441	220KV 204 Bay (Future line bay)	16-12-2019	09:00	16-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	AMP Work and Rectification of CB found faulty timing & DCRM graphs. Shutdown shall be taken if not availed in NOV'19.		
442	400KV Bus Reactor 2 Main Bay 410(125MVAR)	16-12-2019	09:00	16-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work		
443	702 TIE Bay (765 kv BR-I 765 KV SIDE ICT-I) at Gaya	16-12-2019	09:00	16-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work	NLDC	
444	Main Bay of 400kv Siliguri Circuit-2 (BAY NO.404) at New Purnea	16-12-2019	09:30	16-12-2019	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF GASKET OF POLE COLOUMN OF R-PH TO ATTEND THE SF6 LEAKAGE.		
445	205 bay(IV side of 315 MVA ICT-2) AT DALTANGANJ	16-12-2019	09:30	16-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP		
446	422 Bay (Jamshedpur future main bay) at Durgapur	16-12-2019	07:12	16-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works		
447	Arambag: 400 KV Main Bus-1 . Diversion of 400 KV New Chanditala Fdr bay to TBC	16-12-2019	06:00	16-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
448	400/220KV ICT-1 TRANSFORMER (with 400KV bay no 1,2 and 220KV Bay no-5)	16-12-2019	08:00	20-12-2019	18:00	OCB	TSTPS	Tertiary winding 33kv BUSHING replacement -1 no ,Transformer oil filtration and testing,Bay PM and testing. AMP jobs		
449	400 KV ROURKELA-SUNDARGARH#1 LINE	17-12-2019	09:00	17-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	LINE AMP WORKS / FOR ERECTION OF REACTOR BUSHINGS (SHUTDOWN BEING AVAILED AS CLEARANCE IS LESS)		
450	Replacement of DGA Violated CTs with new GE make CTs.	17-12-2019	08:00	17-12-2019	18:00	OCB	ER-II/Odisha/HVDC Talcher	Outage of Bus Filter Bay (10CO5C-T1) of ACF-2 on continuous basis for replacement of DGA violated CTs with new GE make CTs. The same Filter Bank ACF-2 shall be kept in service through 10CO5C Bay . There shall be no interruption or any limitation of Powerflow & all the Filter Banks shall remain in Service during above conditions.	NLDC	
451	765KV ICT4 at Sundargarh SS	17-12-2019	09:00	17-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	CSD tuning works	NLDC	
452	400KV Sundargarh -Rourkela 3 line	17-12-2019	09:00	17-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	FOR AMP works of GIS bays + TL maint work		
453	500MVA ICT-1 at KISHENGANJ	17-12-2019	08:30	09-12-2019	18:00	ODB	POWERGRID ER-I	Annual maintenance of Transformer & Testing		
454	160 MVA ATR-1 AT DALTANGANJ	17-12-2019	09:30	17-12-2019	17:30	ODB	POWERGRID ER-I	AMP	JSEB	
455	400KV Rangpo-Teesta-v Ckt-2	17-12-2019	08:00	21-12-2019	17:00	OCB	POWERGRID, ER-II	For rectification of SF6 gas leakage repair work,	TEESTA-V	NHPC CONSENT REQUIRED

456	400KV BINAGURI-BONGAIGAON-2	17-12-2019	09:00	17-12-2019	18:00	ODB	POWERGRID, ER-II	commissioning of travelling wave fault locator	NLDC	
457	220 KV Birpara-New Siliguri Ckt-II	17-12-2019	08:00	17-12-2019	17:30	ODB	POWERGRID, ER-II	Rectification of displaced VD and Loose A/H and Jumper tightening, damage conductor repair		
458	220KV Maithon-Dumka I&II	17-12-2019	08:00	18-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	JSEB	
459	400kv Andol-jamshedpur Ckt-II	17-12-2019	09:30	17-12-2019	17:30	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC	
460	400 KV D/C Farakka-Berhampore line CKT-1	17-12-2019	09:00	17-12-2019	17:00	ODB	POWERGRID, ER-II	Rectification of shut down nature defects at some locations		
461	400KV Alipurduar-Siliguri ckt 1	17-12-2019	07:30	17-12-2019	17:30	Daily	ENICL	AMP Work		
462	400kv SgTPP-Parulia#2	17-12-2019	06:00	17-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
463	101 bay(main bay of 132Kv Baripada-Jaleswar line)	17-12-2019	09:00	17-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		
464	400 KV Talcher # 1 Tie Bay (Bay No-406)	17-12-2019	08:00	20-12-2019	17:00	OCB	ER-II/Odisha/Rengali	CB Pole Overhauling & MOM Box Retrofitting		
465	220KV OPTCL-II 206 Bay	17-12-2019	09:00	17-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	AMP Work and Rectification of CB found faulty timing & DCRM graphs. Shutdown shall be taken if not availed in NOV'19.	GRIDCO	
466	400KV ICT 2 Main Bay 407	17-12-2019	09:00	17-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work		
467	703 MAIN Bay (765 kV Side 765/400 KV ICT-I) at Gaya	17-12-2019	09:00	17-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work	NLDC	
468	Main Bay of 400kv Kishanganj-1(410) at New Purnea	17-12-2019	10:00	17-12-2019	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF GASKET OF R-PHASE PIR TO ATTEND THE SF6 LEAKAGE.		
469	400kv Main Bay of Biharsharif-I (CWD70Q51) at Pusauli	17-12-2019	09:00	17-12-2019	19:00	ODB	POWERGRID ER-I	AMP work		
470	500MVA ICT 1 along with its bay AT PATNA	17-12-2019	09:30	25-12-2019	17:30	OCB	POWERGRID ER-1	Construction of Firewall and equipment uprating & jumper connection	BIHAR	
471	425 Bay (BR-IV Main Bay) at Durgapur	17-12-2019	07:12	17-12-2019	17:30	ODB	POWERGRID, ER-II	AMP works		
472	208 Bay (220 KV Side of 315 MVA ICT#1) at Subhasgram SS	17-12-2019	09:00	17-12-2019	17:00	ODB	POWERGRID, ER-II	Bay AMP Work	WB	
473	Arambag: 400 KV Main Bus-1 Diversion of 400 KV New Chanditala Fdr bay to TBC	17-12-2019	06:00	17-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
474	400KV Sundargarh -Rourkela 4line	18-12-2019	09:00	18-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	FOR AMP works of GIS bays + TL maint work		
475	400KV Jeypore-Gazuwaka-I Line	18-12-2019	08:00:00	19-12-2019	18:00:00	ODB	ER-II/Odisha /Jeypore	Replacement of porcelain insulator with polymer insulator and for attending S/D nature defects	NLDC	
476	400KV BUS-I AT BANKA	18-12-2019	09:00	19-12-2019	18:00	ODB	POWERGRID ER-I	CONNECTION OF NEW BAY WITH BUS & BUSBAR TESTING	BIHAR	
477	400 KV Pusauli-Varanasi Line	18-12-2019	09:00	23-12-2019	19:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings and Relay Retrofitting	NLDC	
478	400KV RANCHI-MTN-I TL	18-12-2019	09:00	18-12-2019	17:00	ODB	POWERGRID ER-I	FOR STRENGTHENING OF TOWER PEAK AT LOCATION NO. 509, 510 & 512	AFTER RECONDUCTORING WORK OF 400KV MAITHON-MPL-DC	
479	400KV RANCHI-RAGHUNATHPUR-I TL	18-12-2019	09:00	18-12-2019	17:00	ODB	POWERGRID ER-I	FOR STRENGTHENING OF TOWER PEAK AT LOCATION NO. 509, 510 & 512	DVC	
480	400 KV MAIN BUS-1 at Ranchi	18-12-2019	09:00	18-12-2019	17:00	ODB	POWERGRID ER-I	STABILITY TEST FOR BUS BAR PROTECTION OF 426 BAY (TIE BAY OF RNC-RNC-1 AS COMMISSIONING TEST)	JSEB	
481	400 KV RANCHI-RANCHI-1 TL	18-12-2019	09:00	18-12-2019	17:00	ODB	POWERGRID ER-I	STABILITY TEST FOR BUS BAR PROTECTION OF 426 BAY (TIE BAY OF RNC-RNC-1 AS COMMISSIONING TEST)		
482	132 KV Gangtok-Rangpo-I Line	18-12-2019	09:00	18-12-2019	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM	
483	400KV Binaguri-Purnea-1 line	18-12-2019	08:00	18-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays		
484	160 MVA 220/132 KV ICT 2 at Siliguri	18-12-2019	09:00	18-12-2019	17:00	ODB	POWERGRID, ER-II	ICT AMP Work	WB	
485	221 KV Birpara-New Siliguri Ckt-II	18-12-2019	08:00	18-12-2019	17:30	ODB	POWERGRID, ER-II	Rectification of displaced VD and Loose A/H and Jumper tightening, damage conductor repair		
486	400KV Malda-Purnea # I	18-12-2019	08:00	19-12-2019	17:00	ODB	POWERGRID, ER-II	S/D required for rectification of OPGW Peak Bend		
487	400KV Andol-Jamshedpur Ckt-I	18-12-2019	09:30	18-12-2019	17:30	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC	
488	400KV Alipurduar-Siliguri ckt 2	18-12-2019	07:30	18-12-2019	17:30	Daily	ENICL	AMP Work		
489	Barh KAHALGAON line 1	18-12-2019	09:30	19-12-2019	22:00	ODB	BARH	For operation testing from SCADA & AUTO RECLOSE RELAY TESTING		
490	Arambag: 315 MVA ICT-4	18-12-2019	06:00	18-12-2019	15:00	ODB	WBSETCL	Winter maintenance		

491	400KV KTPP-Kharagpur ckt-I	18-12-2019	06:00	18-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
492	400kv SgTPP-Baharampur(PG)#1	18-12-2019	06:00	18-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
493	10852- 132KV Bangriposi Line Main Bay	18-12-2019	09:00	18-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	GRIDCO
494	400 KV MAIN BAY OF SUNDARGARH #4 (427)	18-12-2019	09:00	18-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
495	Main Bay 703 of 765KV ICT-I at Sundargarh SS	18-12-2019	09:00	19-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works	NLDC
496	220KV Bus Coupler 207 Bay	18-12-2019	09:00	19-12-2019	18:00	OCB	ER-II/Odisha /Keonjhar	AMP Work and Rectification of CB found faulty timing & DCRM graphs. Shutdown shall be taken if not availed in NOV'19.	GRIDCO
497	704 MAIN Bay (765 kv BR-II) at Gaya	18-12-2019	09:00	18-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work	NLDC
498	210(Latehar line-2 bay) AT DALTANGANJ	18-12-2019	09:30	18-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP	
499	Main bay of 400 KV RNC CKT-I (Bay no-406) at New Ranchi	18-12-2019	09:00	18-12-2019	17:00	ODB	POWERGRID ER-I	AMP	
500	220 KV Bus Coupler Bay (204 Bay) at Subhasgram	18-12-2019	09:00	20-12-2019	17:00	OCB	POWERGRID, ER-II	For CGL make CB Pole Overhauling	WB
501	400 KV ROURKELA-SUNDARGARH#1 LINE	19-12-2019	11:30	19-12-2019	12:30	ODB	ER-II/ODISHA/ROURKELA	FOR TAKING THE LINE REACTOR INTO SERVICE AFTER OVERHAULING	
502	400 KV SUNDARGARH#3 LINE	19-12-2019	16:00	19-12-2019	17:00	ODB	ER-II/ODISHA/ROURKELA	FOR TAKING THE LINE REACTOR OUT OF SERVICE FOR GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEACKAGES	
503	400KV Sundargarh -Raigarh-4 line	19-12-2019	09:00	19-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	FOR AMP works of GIS bays + TL maint work	
504	315MVA ICT 1 at Biharsharif	19-12-2019	09:30	20-12-2019	18:00	ODB	POWERGRID ER-I	Relay retrofitment Work	BIHAR
505	400KV RANCHI-MTN-I TL	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID ER-I	FOR RECTIFICATION OF EARTH WIRE OF 400KV RANCHI-RGP-I LINE AT LOCATION NO. 510 & 511	AFTER RECONDUCTORING WORK OF 400KV MAITHON-MPL-DC
506	400KV RANCHI-RAGHUNATHPUR-I TL	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID ER-I	FOR RECTIFICATION OF EARTH WIRE OF 400KV RANCHI-RGP-I LINE AT LOCATION NO. 510 & 512	
507	400KV RANCHI-NEW RANCH-1 TL	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID ER-I	FOR RECTIFICATION OF EARTH WIRE OF 400KV RANCHI-RGP-I LINE AT LOCATION NO. 510 & 513	
508	400KV RANCHI-NEW RANCH-2 TL	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID ER-I	FOR RECTIFICATION OF EARTH WIRE OF 400KV RANCHI-RGP-I LINE AT LOCATION NO. 510 & 514	
509	400KV RANCHI-NEW RANCH-3 TL	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID ER-I	FOR RECTIFICATION OF EARTH WIRE OF 400KV RANCHI-RGP-I LINE AT LOCATION NO. 510 & 515	
510	400KV RANCHI-NEW RANCH-4 TL	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID ER-I	FOR RECTIFICATION OF EARTH WIRE OF 400KV RANCHI-RGP-I LINE AT LOCATION NO. 510 & 516	
511	400 KV MAIN BUS-1 at Ranchi	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID ER-I	STABILITY TEST FOR BUS BAR PROTECTION OF 429 BAY (TIE BAY OF RNC-RNC-2 AS COMMISSIONING TEST)	JSEB
512	220 Kv Patna Sipara 3 AT PATNA	19-12-2019	09:30	19-12-2019	17:30	ODB	POWERGRID ER-1	AMP	
513	220 KV Birpara-New Siliguri Ckt-I	19-12-2019	08:00	19-12-2019	17:30	ODB	POWERGRID, ER-II	Retrofitting of Numerical Distance Relay	
514	132KV S/C Maithan Hydrel - Jamtara	19-12-2019	08:00	20-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	DVC
515	400kv Andar-jamshedpur Ckt-II	19-12-2019	09:30	19-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
516	400kv BUS-1 at Baharampore	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID, ER-II	Construction Activity	NLDC
517	400 KV S/C Sagardighi-Jeerat line	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID, ER-II	Rectification of shut down nature defects at various locations	WB
518	220KV RAJARHAT-JEERAT CKT-2	19-12-2019	08:00	19-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work of GIS Bay and related equipment prior to completion of one year	WB
519	Arambag: 315 MVA ICT-3	19-12-2019	06:00	19-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
520	400KV Kharagpur-NewChanditala#1	19-12-2019	06:00	19-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
521	400kv SgTPP-Baharampur(PG)#2	19-12-2019	06:00	19-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
522	10952- 132KV Baripada Line Main bay	19-12-2019	09:00	19-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	GRIDCO
523	125MVAR BUS REACTOR-2 Tie Bay(40506 Bay)	19-12-2019	09:00	19-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 40506 52CB & 40506 CT	
524	705 TIE Bay (765 kv BR-II 765 KV SIDE ICT-II) at Gaya	19-12-2019	09:00	19-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work	NLDC
525	Main bay of 400 KV B/R-1 (Bay no-410) at New Ranchi	19-12-2019	09:00	19-12-2019	17:00	ODB	POWERGRID ER-I	AMP	
526	400KV Converter Trans. Main Bay at Alipurduar	19-12-2019	07:00	19-12-2019	18:00	ODB	POWERGRID, ER-II	Rectification of SF6 leakage from PIR Blanking Plate	NLDC
527	426 Bay (BR-IV & ICT-III Tie bay) at Durgapur	19-12-2019	07:12	19-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works	
528	220 KV Bus-1 at Baripada	20-12-2019	09:00	20-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Isolator allignment work	GRIDCO
529	400 KV SUNDARGARH#3 LINE	20-12-2019	09:00	20-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	LINE AMP WORKS / FOR DISMANTLING OF REACTOR BUSHINGS (SHUTDOWN BEING AVAILED AS CLEARANCE IS LESS)	

530	400/220KV ICT#2	20-12-2019	09:00	20-12-2019	18:00	ODB	ER-II/Odisha/Indravati	To the topup the oil in ICT#2 Y-ph. During this shutdown Power flow from ICT#2 will be Interrupted.	GRIDCO
531	400kv OPGC-I line	20-12-2019	09:00	20-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	FOR AMP works of GIS bays	
532	400kv Jeypore-Gazuwaka-II Line	20-12-2019	08:00:00	21-12-2019	18:00:00	ODB	ER-II/Odisha /Jeypore	Replacement of porcelain insulator with polymer insulator and for attending S/D nature defects	NLDC
533	315 MVA ICT 1 at Jamshedpur	20-12-2019	09:30	20-12-2019	17:30	ODB	POWERGRID ER-I	Static REF relay will be replaced by numerical relay	JSEB
534	400KV BUS-II AT BANKA	20.12.2019	09:00	21.12.2019	18:00	ODB	POWERGRID ER-I	CONNECTION OF NEW BAY WITH BUS & BUSBAR TESTING	BIHAR
535	400 KV MAIN BUS-2 at Ranchi	20-12-2019	09:30	20-12-2019	17:00	ODB	POWERGRID ER-I	Fixing of Stool in Yph Bus-II CVT & AMP During the S/D, all Lines and equipments will remain Chrged through Bus-I except 400 kv RNC-NRNC- 1 & 2 line.	JSEB
536	400KV RANCHI-NEW RANCHI-1 TL	20-12-2019	09:30	20-12-2019	17:00	ODB	POWERGRID ER-I	LINE WILL BE OUT DURING THE S/D OF 400KV BUS-II DUE NON AVAILABILITY OF ITS TIE BAY AT RANCHI	
537	400KV RANCHI-NEW RANCHI-2 TL	20-12-2019	09:30	20-12-2019	17:00	ODB	POWERGRID ER-I	LINE WILL BE OUT DURING THE S/D OF 400KV BUS-II DUE NON AVAILABILITY OF ITS TIE BAY AT RANCHI	
538	400 KV DARBHNGA - KISHANGANJ CKT-2	20-12-2019	08:00	21-12-2019	18:00	ODB	SITAMARHI (TBCB)	ERECTION OF 400 KV DARBHANGA-SITAMARHI CKT-2 GANTRY TOWER.	
539	66 KV Gangtok-Lagyap(LLHP) Line	20-12-2019	09:00	20-12-2019	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM
540	400KV Binaguri-Purnea-2 line	20-12-2019	08:00	20-12-2019	18:00	ODB	POWERGRID, ER-II	Replacement and retrofitting of Distance and auto-reclose relays	
541	220 KV Birpara-Siliguri Ckt-II	20-12-2019	08:00	20-12-2019	17:30	ODB	POWERGRID, ER-II	Retrofitting of Numerical Distance Relay	
542	400KV Andol-Jamshedpur Ckt-I	20-12-2019	09:30	20-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
543	400KV BUS-2 at Baharampore	20-12-2019	09:00	20-12-2019	17:00	ODB	POWERGRID, ER-II	Construction Activity	NLDC
544	400 KV S/C Sagardighi-Subhasgram line	20-12-2019	09:00	20-12-2019	17:00	ODB	POWERGRID, ER-II	Rectification of shut down nature defects at various locations	WB
545	400kv Alipurduar-Bongaigaon ckt 1	20-12-2019	07:30	20-12-2019	17:30	Daily	ENICL	AMP Work	NLDC
546	Barh KAHALGAON LINE # 2	20-12-2019	09:30	21-12-2019	23:00	ODB	BARH	For operation testing from SCADA & AUTO RECLOSE RELAY TESTING	
547	400KV Kharagpur-NewChanditala#2	20-12-2019	06:00	20-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
548	400kv SgTPP-Farakka#2	20-12-2019	06:00	20-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
549	80MVAR BUS REACTOR-1 Tie Bay(40708 Bay)	20-12-2019	09:00	20-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 40708 52CB & 40708 CT	
550	220KV TBC 201 Bay	20-12-2019	09:00	20-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	AMP Work and Rectification of CB found faulty timing & DCRM graphs. Shutdown shall be taken if not availed in NOV'19.	GRIDCO
551	706 MAIN Bay (765 kv Side 765/400 KV ICT-II) at Gaya	20-12-2019	09:00	20-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work	NLDC
552	212(Bus Coupler Bay) AT DALTANGANJ	20-12-2019	09:30	20-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP	
553	400KV Converter Trans. TIE Bay at Alipurduar	20-12-2019	07:00	20-12-2019	18:00	ODB	POWERGRID, ER-II	Rectification of SF6 leakage from PIR Blanking Plate	NLDC
554	423 Bay (Tie bay of BR-III & Future) at Durgapur	20-12-2019	07:12	20-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works	
555	Arambag: 400 KV Main Bus-2 with Bus Coupler bay	20-12-2019	06:00	20-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
556	400 KV SUNDARGARH#2 LINE	21-12-2019	09:00	21-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	LINE AMP WORKS	
557	400KV OPGC-II line	21-12-2019	09:00	21-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	FOR AMP works of GIS bays	
558	400KV Sundargarh -Raigarh-3 line	21-12-2019	09:00	16-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	FOR AMP works of GIS bays + TL maint work	NLDC
559	400KV Sundargarh -Raigarh-1&3 line	21-12-2019	09:00	31-12-2019	18:00	OCB	ER-II/Odisha/Sundergarh	For OPGC MGR Railway diversion work	NLDC
560	765KV Sundargarh-Angul Ckt #4	21-12-2019	08:00	25-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	Work at TP Tower maintenance	NLDC
561	765KV GAYA-VARANASI-II	21-12-2019	09:00	29-12-2019	18:00	ODB	POWERGRID ER-I	For Strengthening of 765 kv line Suspension Delta Tower	NLDC
562	315 MVA ICT-2 AT DALTANGANJ	21-12-2019	09:30	21-12-2019	17:30	ODB	POWERGRID ER-I	AMP	JSEB
563	+800 KV HVDC BNC AGRA	21-12-2019	09:00	31-12-2019	18:00	OCB	POWERGRID ER-I	10 DAY SD REQUIRED SHIFTING FROM ERS TO NORMAL TOWER AFTER RECTIFICATION OF TOWER NUMBER 1619, 1618. DATES TENTATIVE AND SHALL BE CONFIRMED BASED ON SITE CONDITION	NLDC
564	400KV Malda-Purnea-I	21-12-2019	08:00	30-12-2019	17:00	ODB	POWERGRID, ER-II	Repacement of Porcelene Insulator with Polymer Insulator	
565	400KV RBTPS-Ranchi I&II	21-12-2019	08:00	22-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	DVC
566	400kv Andol-jamshedpur Ckt-II	21-12-2019	09:30	21-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
567	400KV Alipurduar-Bongaigaon ckt 2	21-12-2019	07:30	21-12-2019	17:30	Daily	ENICL	AMP Work	NLDC
568	400kv SgTPP-Jeerat#	21-12-2019	06:00	21-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
569	400 KV ICT # 1 Main Bay (Bay No-407)	21-12-2019	09:00	21-12-2019	17:00	ODB	ER-II/Odisha/Rengali	AMP & MOM Box Retrofitting	

570	220KV ICT-I 203 Bay	21-12-2019	09:00	21-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	AMP Work and Rectification of CB found faulty timing & DCRM graphs. Shutdown shall be taken if not availed in NOV'19.	GRIDCO
571	401 Bay (400 KV Subhasgram Sagardighi Line Main Bay) at Subhasgram	21-12-2019	09:00	23-12-2019	17:00	OCB	POWERGRID, ER-II	For CGL make CB Pole Overhauling	
572	400 KV SUNDARGARH#4 LINE	22-12-2019	09:00	22-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	LINE AMP WORKS	
573	132 KV Dtg-jusnl Line-1	22-12-2019	09:30	20-12-2019	17:30	ODB	POWERGRID ER-I	Line Bay AMP	JSEB
574	400/220kv 100 MVAICT -1 at Rangpo	22-12-2019	08:00	26-12-2019	16:00	OCB	POWERGRID, ER-II	For rectification of SF6 gas leakage repair work,	
575	400kv Andar-Jamshedpur Ckt-I	22-12-2019	09:30	22-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
576	220 KV D/C Arambagh-Medinipur Transmission line	22-12-2019	8:00	22-12-2019	17:00	ODB	POWERGRID, ER-II	For Stringing b/w AP 22/0 to 23/0 of 765 KV D/C Medinipur Jeerat TL Over existing 220 KV D/C Arambagh-Medinipur Transmission line (WBSETCL)	WB
577	404-main bay of 80MVAR Bus Reactor at Duburi SS	22-12-2019	09:00	22-12-2019	13:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
578	213 main bay 220KV Fatuha line AT PATNA	22-12-2019	09:30	24-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updratn works under SS03 package	
579	Bus bar-1 at Indravati	23-12-2019	09:00	23-12-2019	18:00	ODB	ER-II/Odisha/Indravati	AMP works of Bus-1	GRIDCO
580	400KV GIS BUS-3	23-12-2019	09:00	23-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	FOR AMP works of GIS bus sectionalizer	
581	400KV Angul-Bolangir Line	23-12-2019	09:00	23-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	Commissioning of LILO Isolator	NLDC
582	315 MVA ICT 2 at Jamshedpur	23-12-2019	09:30	23-12-2019	09:30	ODB	POWERGRID ER-I	Static REF relay will be replaced by numerical relay	JSEB
583	315MVA ICT 2 at Biharsharif	23-12-2019	09:30	24-12-2019	18:00	ODB	POWERGRID ER-I	Relay retrofitment Work	BIHAR
584	132KV MAIN BUS AT BANKA	23.12.2019	09:00	24.12.2019	18:00	ODB	POWERGRID ER-I	132KV ICT-III BAY BUS CONNECTION & TESTING OF 132KV BUSBAR, ALL 132KV LINES WILL BE OUT OF SERVICE.	BIHAR
585	400KV Pusauli- Daltonganj Line-1	23-12-2019	09:00	14-01-2020	18:00	OCB	POWERGRID ER-I	Rectification of Tower No:- 170 of Pusauli- Nabinagr D/C Line having critical leg bend	
586	400KV Pusauli-Nabinagar Line-1	23-12-2019	09:00	26-12-2019	18:00	OCB	POWERGRID ER-I	Rectification of Tower No:- 170 of Pusauli- Nabinagr D/C Line having critical leg bend	NABINAGAR
587	400 KV RANCHI-SIPAT-I	23-12-2019	09:30	23-12-2019	09:50	ODB	POWERGRID ER-I	for Isolation of Non Switchable L/R for AMP work	NLDC
588	400 KV RANCHI-SIPAT-I	23-12-2019	16:40	23-12-2019	17:00	ODB	POWERGRID ER-I	for charging of Non Switchable L/R after AMP work	NLDC
589	66 KV Gangtok-Bulbulay Line	23-12-2019	09:00	23-12-2019	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM
590	400KV BINAGURI-BONGAIGAON-1	23-12-2019	09:00	23-12-2019	18:00	ODB	POWERGRID, ER-II	commissioning of travelling wave fault locator	NLDC
591	132 KV Bus Coupler at Birpara	23-12-2019	08:00	23-12-2019	17:00	ODB	POWERGRID, ER-II	AMP Works	WB
592	220 KV Alipurduar - Birpara Ckt I	23-12-2019	06:00	24-12-2019	18:00	ODB	POWERGRID, ER-II	Attending shut down nature of defects	
593	400kv Andar-jamshedpur Ckt-II	23-12-2019	09:30	23-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
594	220 KV D/C Arambagh-Medinipur Transmission line	23-12-2019	8:00	23-12-2019	17:00	ODB	POWERGRID, ER-II	For Stringing b/w AP 22/0 to 23/0 of 765 KV D/C Medinipur Jeerat TL Over existing 220 KV D/C Arambagh-Medinipur Transmission line (WBSETCL)	WB
595	Barh MOTIHARI line 1	23-12-2019	09:30	24-12-2019	00:00	ODB	BARH	For operation testing from SCADA & AUTO RECLOSE RELAY TESTING	
596	Arambag-New Chanditala 400 KV Line	23-12-2019	06:00	23-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
597	SgTPP: 400KV MB#1	23-12-2019	06:00	24-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
598	132 KV Baripada - Baripada(PG) line	23-12-2019	07:00	23-12-2019	16:00	ODB	OPTCL	Annual maintenance	
599	40304-Tie bay of Duburi-BPD line & Bus Reactor at Duburi SS	23-12-2019	13:30	23-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
600	400 KV TIE BAY OF TALCHER#1 (405)	23-12-2019	09:00	23-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
601	80MVAR BUS REACTOR-1 Main Bay(408 Bay)	23-12-2019	09:00	23-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 408 52CB & 408 CT	
602	220KV ICT-II 205 Bay	23-12-2019	09:00	23-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	AMP Work and Rectification of CB found faulty timing & DCRM graphs. Shutdown shall be taken if not availed in NOV'19.	GRIDCO
603	765KV ICT 1 Main Bay 704	23-12-2019	09:00	23-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work	NLDC
604	400KV Main Bay of Biharsharif-II (CWD80Q51) at Pusauli	23-12-2019	09:00	23-12-2019	18:00	ODB	POWERGRID ER-I	AMP work	
605	214 Main bay ICT 1 AT PATNA	23-12-2019	09:30	25-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updratn works under SS03 package	BIHAR
606	Main bay of PPSP CKT-II (Bay no-422) at New Ranchi	23-12-2019	09:00	23-12-2019	17:00	ODB	POWERGRID ER-I	AMP	
607	407 Bay (B' Nagar Line-I Main Bay) at Durgapur	23-12-2019	07:12	23-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works	
608	400/220KV ICT-2 TRANSFORMER (with 400KV bay no 4,5 and 220KV Bay no-14)	23-12-2019	08:00	26-12-2019	18:00	OCB	TSTPS	Transformer oil filtration and testing,Bay PM and testing. AMP jobs	

609	220KV Bus-II at Baripada	24-12-2019	09:00	24-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Isolator alignment work	GRIDCO
610	400KV GIS BUS-4	24-12-2019	09:00	24-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	FOR AMP works of GIS bus sectionalizer	
611	A/R OF 400KV Sundergarh-Raigarh Ckt # 4	24-12-2019	08:00	31-12-2019	17:30	ODB	ER-II/ODISHA/SUNDERGARH	For PID Testing of Porcelain Insulator. Only Auto reclose	NLDC
612	COUP Transformer (3x 166.7 MVA) at Jeypore	24-12-2019	10:00:00	24-12-2019	13:00:00	ODB	ER-II/Odisha /Jeypore	For changing Coup. Transformer combination form Unit-I,II, IV to Unit-I , III & IV for charging Unit-III	GRIDCO
613	400kv Angul-Meramunduli-1 Line	24-12-2019	09:00	24-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	Commissioning of LILO Isolator	GRIDCO
614	400 KV RANCHI-SIPAT-II	24-12-2019	09:30	24-12-2019	09:50	ODB	POWERGRID ER-I	for isolation of Non Switchable L/R for AMP work	NLDC
615	400 KV RANCHI-SIPAT-II	24-12-2019	16:40	24-12-2019	17:00	ODB	POWERGRID ER-I	for charging of Non Switchable L/R after AMP work	NLDC
616	132 KV Dtg-jusnl Line-2	24-12-2019	09:30	24-12-2019	17:30	ODB	POWERGRID ER-I	Line Bay AMP	JSEB
617	400 KV Patna Barh line 1 AT PATNA	24-12-2019	09:30	25-12-2019	17:30	OCB	POWERGRID ER-1	Under SS03 package for commissioning of 80 MVAR Bus reactor as switchable line reactor	
618	400kv Andar-Jamshedpur Ckt-I	24-12-2019	09:30	24-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
619	400 KV MAIN BAY OF SUNDARGARH #2 (430)	24-12-2019	09:00	24-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
620	220KV 208Line Bay	24-12-2019	09:00	24-12-2019	18:00	ODB	ER-II/Odisha /Keonjhar	AMP Work and Rectification of CB found faulty timing & DCRM graphs. Shutdown shall be taken if not availed in NOV'19.	GRIDCO
621	400KV Talchar Main Bay 409	24-12-2019	09:00	24-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work	
622	400KV Main bay of AC filter North Side (CWD10Q52) at Pusauli	24-12-2019	09:00	24-12-2019	18:00	ODB	POWERGRID ER-I	AMP work	NLDC
623	409 Bay (315 MVA ICT-I Main bay) at Durgapur	24-12-2019	07:12	24-12-2019	17.3	ODB	POWERGRID, ER-II	AMP works	
624	400KV Maithon-Right Bank #II	25-12-2019	08:00	08-01-2020	18:00	OCB	POWERGRID, ER-II	Re conducting work	MPL
625	Non Autoreclose mode 400KV Maithon-Right Bank #I	25-12-2019	08:00	08-01-2020	18:00	OCB	POWERGRID, ER-II	MTN RB Ckt-I will be kept in NON-Auto during Re conducting in MTN RB Ckt-II for safety measure.	
626	400kv Andar-jamshedpur Ckt-II	25-12-2019	09:30	25-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
627	132KV Gangtok Ckt-I - Rangpo Line	25-12-2019	08:00	28-12-2019	17:00	OCB	MBPCL	For Stringing from Loc-25 to 26	SIKKIM
628	132kv Melli-Rangpo Line	25-12-2019	08:00	28-12-2019	17:00	OCB	MBPCL	For Stringing from Loc-25 to 26	SIKKIM
629	41352-500MVA ICT#3 GIS Bay	25-12-2019	09:00	25-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
630	409 Main bay ICT 2 AT PATNA	25-12-2019	09:30	27-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updratn works under SS03 package	
631	Tie bay of 400KV Maithon-MPL Ckt#2/ST-1,(Bay no 405) at MPL	25-12-2019	09:00	08-01-2019	19:00	OCB	POWERGRID, ER-II	Upgradation of Bay equipmenets under ERSS-XVII Project work. Shut down of Bays proposed in respect of line shut down for reconductoring work.	
632	403 Bay (315 MVA ICT#1 Main Bay) at Subhasgram	25-12-2019	09:00	25-12-2019	17:00	ODB	POWERGRID, ER-II	Bay AMP Work	
633	765kv Sundargarh-Dharamjaygarh Ckt#3 at Sundargarh	26-12-2019	09:00	26-12-2019	17:00	ODB	ER-II/Odisha/Sundergarh	BPI erection works at T-point	NLDC
634	400kv Angul-Talcher Line	26-12-2019	09:00	26-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	Commissioning of LILO Isolator	
635	400kv ICT 4 Tie 420	26-12-2019	09:00	26-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work	
636	315MVA ICT 3 at Biharsharif	26-12-2019	09:30	26-12-2019	18:00	ODB	POWERGRID ER-I	Relay retrofitment Work	BIHAR
637	315 MVA ICT-1 at Ranchi	26-12-2019	09:30	30-12-2019	17:00	OCB	POWERGRID ER-I	Replacement of 01 No 220 KV (Y-Ph) & 3 Nos 33 KV (R , Y & BPh) Bushings LOAD WILL BE RESTRICTED TO 250 MW TO JUSNL,	JSEB
638	765KV BUS-I at New Ranchi	26-12-2019	09:00	27-12-2019	17:00	ODB	POWERGRID ER-I	For construction of Medinipur bay	NLDC
639	66 KV Gangtok-Tadong Line	26-12-2019	09:00	26-12-2019	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM
640	220 KV Alipurduar - Birpara Ckt II	26-12-2019	06:00	27-12-2019	18:00	ODB	POWERGRID, ER-II	Attending shut down nature of defects	
641	132KV S/C Maithan Hydrel - Jamtara	26-12-2019	08:00	27-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line	DVC
642	400KV Andar-Jamshedpur Ckt-I	26-12-2019	09:30	26-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
643	Barh MOTIHARI line 2	26-12-2019	09:30	27-12-2019	01:00	ODB	BARH	For operation testing from SCADA & AUTO RECLOSE RELAY TESTING	
644	41452 - GIS Tie bay of ICT #3 & Bus Reactor-1	26-12-2019	09:00	26-12-2019	13:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
645	400KV Main bay of AC filter East Side (CWD50Q52) at Pusauli	26-12-2019	09:00	26-12-2019	18:00	ODB	POWERGRID ER-I	AMP work	NLDC
646	103 Bay(Chatarpur Line-1 bay) AT DALTANGANJ	26-12-2019	09:30	26-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP	
647	416 bay Balia Line-2 bay AT PATNA	26-12-2019	09:30	29-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updratn works under SS03 package	
648	Bus bar-2 at indravati	27-12-2019	09:00	27-12-2019	18:00	ODB	ER-II/Odisha/Indravati	AMP works of Bus-2	GRIDCO
649	220KV Balangir-Kantapali line	27-12-2019	09:00	27-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 203 52CB & 203 CT	GRIDCO
650	765kv Sundargarh-Dharamjaygarh Ckt#4 at Sundargarh	27-12-2019	09:00	27-12-2019	17:00	ODB	ER-II/Odisha/Sundergarh	BPI erection works at T-point	NLDC
651	400KV Angul-Meramunduli-2 Line	27-12-2019	09:00	27-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	Commissioning of LILO Isolator	GRIDCO
652	765kv Angul-Srikakulam Line 1 Main 729	27-12-2019	09:00	27-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work	NLDC

653	400KV Rangpo-Kishanganj line	27-12-2019	08:00	31-12-2019	17:00	OCB	POWERGRID, ER-II	For rectification of SF6 gas leakage repair work,	
654	400kV Andai-jamshedpur Ckt-II	27-12-2019	09:30	27-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
655	SgTPP: 400KV MB#2	27-12-2019	06:00	28-12-2019	15:00	ODB	WBSETCL	Winter maintenance	
656	132/33kV Rairangpur- Baripada PG line (Rairangpur to Bangriposhi)	27-12-2019	07:00	27-12-2019	16:00	ODB	OPTCL	Annual maintenance	
657	41652-Future Line Bay GIS	27-12-2019	13:30	27-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
658	400KV Tie Bay of Nabinagar & Spare Bay (Bay 420) at Pusauli	27-12-2019	09:00	27-12-2019	18:00	ODB	POWERGRID ER-I	AMP work	
659	765kV GIS BUS-III	28-12-2019	09:00	29-12-2019	17:00	OCB	ER-II/Odisha/Sundergarh	for 765KV GIS and 765KV ICT-3&4 commissioning work under construction head	NLDC
660	765KV Sundargarh-Angul Ckt #2	28-12-2019	08:00	28-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	TL Maint work & Jumper repalcement at 502	NLDC
661	400KV Pusauli-Nabinagar Line-2	28-12-2019	09:00	12-01-2020	18:00	OCB	POWERGRID ER-I	Rectification of Tower No:- 170 of Pusauli- Nabinagr D/C Line having critical leg bend	NABINAGAR
662	66 KV Gangtok-Sherathang Line	28-12-2019	09:00	28-12-2019	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM
663	220 KV Bus #1 with 220KV Binaguri-Siliguri #1, ICT#1, 220KV Binaguri-Birpara#1 & Bus Section-I at Binaguri	28-12-2019	09:00	29-12-2019	17:00	ODB	POWERGRID, ER-II	Commissioning of Bus #1 Bus bar protection for ICT#3 ERSS-XVII	WB
664	400KV RBTPS-Ranchi I&II	28-12-2019	08:00	29-12-2019	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line	DVC
665	400kV Andai-Jamshedpur Ckt-I	28-12-2019	09:30	28-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
666	132/33kV Rairangpur-Baripada PG line (Baripada PG to Bangriposhi)	28-12-2019	07:00	28-12-2019	16:00	ODB	OPTCL	Annual maintenance	
667	220 KV Sadeipalli-Bolangir PG	28-12-2019	07:00	28-12-2019	16:00	ODB	OPTCL	Annual maintenance	
668	220 KV Katapalli-Bolangir PG	28-12-2019	07:00	28-12-2019	16:00	ODB	OPTCL	Annual maintenance	
669	41752-Tie bay of GIS Bus Reactor-2 & Future line	28-12-2019	09:00	28-12-2019	13:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
670	North Side Allahabad Bay Line Reactor (CWL 29 Bay) at Pusauli	28-12-2019	09:00	28-12-2019	18:00	ODB	POWERGRID ER-I	AMP work	NLDC
671	101 Bay (ATR-2 IV side Bay) AT DALTANGANJ	28-12-2019	09:30	28-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP	
672	412 Main bay Of ICT 1 AT PATNA	28-12-2019	09:30	30-12-2019	17:30	OCB	POWERGRID ER-1	CB Overhauling & BCU updraton works under SS03 package	
673	765KV GIS BUS-IV	29-12-2019	09:00	30-12-2019	17:00	OCB	ER-II/Odisha/Sundergarh	for 765KV GIS and 765KV ICT-3&4 commissioning work under construction head	NLDC
674	400kV Andai-jamshedpur Ckt-II	29-12-2019	09:30	29-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
675	132/33 KV Grid S/S, Bangriposhi (132 KV S/Y)	29-12-2019	07:00	29-12-2019	16:00	ODB	OPTCL	Annual maintenance	
676	41852-main bay of 125MVAR GIS Bus Reactor-2	29-12-2019	13:30	29-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
677	765KV ANGUL-II at Sundargarh	30-12-2019	09:00	30-12-2019	11:00	ODB	ER-II/Odisha/Sundergarh	BPI erection works at T-point	NLDC
678	220 kV OPTCL Korba-III line	30-12-2019	09:00	30-12-2019	17:00	ODB	ER-II/ODISHA/SUNDERGARH	AMP works	NLDC
679	765KV Sundargarh-Dharamjaygarh Ckt#1 at Sundargarh	30-12-2019	09:00	30-12-2019	17:00	ODB	ER-II/Odisha/Sundergarh	BPI erection works at T-point	NLDC
680	765KV Sundargarh-Dharamjaygarh Ckt#2 at Sundargarh	30-12-2019	09:00	30-12-2019	14:00	ODB	ER-II/Odisha/Sundergarh	BPI erection works at T-point	NLDC
681	220 KV Bus #2 with 220KV Binaguri-Siliguri #2, ICT#2, 220KV Binaguri-Birpara#2 & Bus Section-II at Binaguri	30-12-2019	09:00	31-12-2019	17:00	ODB	POWERGRID, ER-II	Commissioning of Bus #2 Bus bar protection for ICT#3 ERSS-XVII	WB
682	400kV Andai-Jamshedpur Ckt-I	30-12-2019	09:30	30-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
683	220 KV Jayanagar-Jeypore-II	30-12-2019	07:00	31-12-2019	16:00	ODB	OPTCL	Annual maintenance	
684	400 KV MAIN BAY OF 125 MVAR BR#1 (422)	30-12-2019	09:00	30-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
685	North Side Sarnath Bay Line Reactor (CWL 39 Bay) at Pusauli	30-12-2019	09:00	30-12-2019	18:00	ODB	POWERGRID ER-I	AMP work	NLDC
686	102 Bay (ATR-1 IV side Bay) AT DALTANGANJ	30-12-2019	09:30	30-12-2019	17:30	ODB	POWERGRID ER-I	Bay AMP	
687	400 KV SUNDARGARH#3 LINE	31-12-2019	09:00	31-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	FOR ERECTION OF REACTOR BUSHINGS (SHUTDOWN BEING AVAILED AS CLEARANCE IS LESS)	
688	400KV Andai-jamshedpur Ckt-II	31-12-2019	09:30	31-12-2019	17.3	ODB	POWERGRID, ER-II	Replacement of defective porcelain insulators string with polymer insulators	DVC
689	220kV Korba-III bay 211 at OPTCL Budhipara SS	31-12-2019	09:00	31-12-2019	17:00	ODB	ER-II/ODISHA/SUNDERGARH	AMP works	NLDC
690	220kV Korba-III bay 211 at OPTCL Budhipara SS	31-12-2019	09:00	31-12-2019	17:00	ODB	ER-II/ODISHA/SUNDERGARH	AMP works	NLDC

ERLDC, KOLKATA										
TRANSMISSION ELEMENTS OUTAGE DEFERRED IN 163rd OCC MEETING OF ERPC										
SI	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S.D availed BY	Reason	SUBJECT TO CONSENT FROM AGENCY	COMMENTS
1	400KV Bus -I AT PATNA	01-12-2019	09:30	01-12-2019	17:30	ODB	POWERGRID ER-1	AMP, Jumper Tighting	BIHAR	AFTER REVIVAL OF 400KV BARH MOTHIHARI CKT-DC
2	63 MVAR, 400 KV SUNDARGARH#1 LINE REACTOR	02-12-2019	09:30	19-12-2019	12:30	OCB	ER-II/ODISHA/ROURKELA	GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEAKAGES	DEFFRED	
3	50MVAR JEYPORE LINE REACTOR	02-12-2019	09:00	02-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 50MVAR Jeypore L/R and 403R 52 CB	DEFFRED	
4	400kv, 125MVAR Bus Reactor-1	02-12-2019	09:00	02-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work	DEFFRED	
5	765 kV BR-I at Gaya ss	02-12-2019	09:00	02-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work	DEFFRED	
6	50 MVAR Line Reactor-1 AT DALTANGANJ	02-12-2019	09:30	02-12-2019	17:30	ODB	POWERGRID ER-I	LINE REACTOR-1 NEUTRAL EARTHING ARRANGEMENT MODIFICATION WORK	DEFFRED	
7	400 kV SASARAM DALTONGANJ I	02-12-2019	09:30	02-12-2019	09:45	ODB	POWERGRID ER-I	To ISOLATE LINE REACTOR	DEFFRED	
8	400 kV SASARAM DALTONGANJ II	02-12-2019	17:15	02-12-2019	17:30	ODB	POWERGRID ER-I	TO TAKE LINE REACTOR INTO SERVICE	DEFFRED	
9	80 MVAR Bus Reactor at Lakhisarai	02-12-2019	09:30	02-12-2019	17:30	ODB	POWERGRID ER-I	Fire Wall Construction of ICT-3	DEFFRED	
10	220 kV Ara Khagaul Ckt 1	02-12-2019	10:00	02-12-2019	17:00	On Daily Basis	POWERGRID ER-I	Main 1 Distance Relay replacement depending upon GE Engineer Visit	BIHAR	AFTER PUSAULI ICT SHUTDOWN
11	125 MVAR BR	03-12-2019	09:00	03-12-2019	18:00	ODB	ER-II/Odisha/Indravati	Local WTI Replacement and CT Ratio Shifting from Turret CT(200/1) to Bay CT(1000/1). During this Shut Down The Power flow in The UIHEP Line Will be Zero due to the Temporary Shut Down of UIHEP Main bay (412) at Indravati.	DEFFRED	
12	765kV, 330MVAR BUS REACTOR 1	03-12-2019	09:00	03-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work	DEFFRED	
13	765 kV BR-II at Gaya ss	03-12-2019	09:00	03-12-2019	18:00	OCB	POWERGRID ER-I	For AMP work	DEFFRED	
14	50 MVAR Line Reactor-2 AT DALTANGANJ	03-12-2019	09:30	03-12-2019	17:30	ODB	POWERGRID ER-I	LINE REACTOR-2 NEUTRAL EARTHING ARRANGEMENT MODIFICATION WORK	DEFFRED	
15	400 kV SASARAM DALTONGANJ I	03-12-2019	09:30	03-12-2019	09:45	ODB	POWERGRID ER-I	To ISOLATE LINE REACTOR	DEFFRED	
16	400 kV SASARAM DALTONGANJ II	03-12-2019	17:15	03-12-2019	17:30	ODB	POWERGRID ER-I	TO TAKE LINE REACTOR INTO SERVICE	DEFFRED	
17	125MVAR BR- I at Alipurduar	03-12-2019	07:00	06-12-2019	18:00	OCB	POWERGRID, ER-II	Oil leakage (from PRD & Main tank joint) and Air Cell rectification	DEFFRED	
18	400KV Bus 2 AT PATNA	03-12-2019	09:30	03-12-2019	17:30	ODB	POWERGRID ER-1	Dismantling of Bus isolator of bay 409	BIHAR	AFTER REVIVAL OF 400KV BARH MOTHIHARI CKT-DC
19	500 MVA ICT-2 AT PATNA	03-12-2019	09:30	04-12-2019	17:30	ODB	POWERGRID ER-1	AMP and CSD comissioning	BIHAR	AFTER PUSAULI ICT SHUTDOWN
20	500 MVA ICT-2 AT PATNA	03-12-2019	09:30	03-12-2019	17:30	ODB	POWERGRID ER-1	Comissioning of Backup impedancy relay	BIHAR	AFTER PUSAULI ICT SHUTDOWN
21	220 kV Ara Khagaul Ckt 2	03-12-2019	10:00	03-12-2019	17:00	On Daily Basis	POWERGRID ER-I	Main 1 Distance Relay replacement depending upon GE Engineer Visit	BIHAR	AFTER PUSAULI ICT SHUTDOWN
22	50MVAR ANGUL LINE REACTOR	04-12-2019	09:00	04-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 401R 52 CB	DEFFRED	
23	765kV, 330MVAR BUS REACTOR 2	04-12-2019	09:00	04-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work	DEFFRED	
24	765 kV LR-I (GAYA-BALIA) at Gaya ss	04-12-2019	09:00	04-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work	DEFFRED	
25	125 MVAR Bus Reactor	05-12-2019	09:00	05-12-2019	18:00	ODB	ER-II/Odisha /Jeypore	AMP of 125 MVAR Bus Reactor	DEFFRED	
26	765 kV LR-II (GAYA-VNS-I) at Gaya ss	05-12-2019	09:00	05-12-2019	18:00	ODB	POWERGRID ER-I	For Commisioning of CSD Relay	DEFFRED	
27	765kV, 240MVAR Angul-SNG ckt-3 LR	06-12-2019	09:00	06-12-2019	18:00	ODB	ER-II/Odisha/Angul SS	AMP work	DEFFRED	
28	765 kV LR-III(GAYA-VNS-II) at Gaya ss	06-12-2019	09:00	06-12-2019	18:00	ODB	POWERGRID ER-I	For AMP work	DEFFRED	
29	Arambag: 400 KV 50 MVAR Bus Reactor	06-12-2019	06:00	06-12-2019	15:00	ODB	WBSETCL	Winter maintenance		
30	400kV ,125MVAR BusReactor-I at Sundargarh SS	07-12-2019	09:00	07-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works	DEFFRED	
31	400KV Bus 2 AT PATNA	08-12-2019	09:30	09-12-2019	17:30	ODB	POWERGRID ER-1	Commissioning of Bus isolator of bay 409	BIHAR	AFTER REVIVAL OF 400KV BARH MOTHIHARI CKT-DC
32	80 MVAR LR-2 with 400kV Farakka Line(presently antitheft charged) at Rajarhat	09-12-2019	08:00	09-12-2019	18:00	ODB	POWERGRID, ER-II	AMP work of GIS Bay and related equipment prior to completion of one year	DEFFRED	

33	400kV ,125MVAR BusReactor-II at Sundargarh SS	10-12-2019	09:00	10-12-2019	18:00	ODB	ER-II/Odisha/Sundergarh	AMP works	DEFFRED	
34	80 MVAR BUS REACTOR-I AT BANKA	10.12.2019	09:00	10.12.2019	17:00	ODB	POWERGRID ER-I	ANNUAL MAINTENANCE	DEFFRED	
35	125 MVAR Bus reactor-1 AT PATNA	10-12-2019	09:30	10-12-2019	17:30	OCB	POWERGRID ER-1	AMP	DEFFRED	
36	80 MVAR Bus Reactor at Lakhisarai	10-12-2019	09:30	10-12-2019	17:30	ODB	POWERGRID ER-I	Fire Wall Construction of ICT-3	DEFFRED	
37	400kV Bus Reactor-2 (125 MVAR) at Baharampore	10-12-2019	09:00	10-12-2019	17:00	OCB	POWERGRID, ER-II	Bus Reactor Maintenace.	DEFFRED	
38	400KV Bus 2 AT PATNA	10-12-2019	09:30	10-12-2019	17:30	ODB	POWERGRID ER-1	Dismantling of Bus isolator of bay 412	BIHAR	AFTER REVIVAL OF 400KV BARH MOTHIHARI CKT-DC
39	50 MVAR BSF CKT-I LINE REACTOR AT BANKA	12.12.2019	09:00	12.12.2019	17:00	ODB	POWERGRID ER-I	ANNUAL MAINTENANCE	DEFFRED	
40	50 MVAR BSF CKT-II LINE REACTOR AT BANKA	12.12.2019	09:00	12.12.2019	17:00	ODB	POWERGRID ER-I	ANNUAL MAINTENANCE	DEFFRED	
41	80 MVAR Bus Reactor at Lakhisarai	12-12-2019	09:30	12-12-2019	17:30	ODB	POWERGRID ER-I	Fire Wall Construction of ICT-3	DEFFRED	
42	765 KV 3*120 MVAR BUS REACTOR(703-52 BR) at Pusauli	12-12-2019	09:00	13-12-2019	18:00	ODB	POWERGRID ER-I	Retrofitting work of CSD Relay & AMP work	NLDC	
43	400KV Binaguri-Alipurduwar Line#1 LR (Switchable LR) at Binaguri	13-12-2019	09:00	13-12-2019	14:00	ODB	POWERGRID, ER-II	AMP works	DEFFRED	
44	125MVAR BUS REACTOR-II AT BANKA	14.12.2019	09:00	17.12.2019	18:00	ODB	POWERGRID ER-I	CONSTRUCTION OF FIRE WALL FOR ICT-III	DEFFRED	
45	400KV Bus 2 AT PATNA	14-12-2019	09:30	15-12-2019	17:30	ODB	POWERGRID ER-1	Commissioning of Bus isolator of bay 412	BIHAR	
46	400 KV Patna Barh 2 & 400 KV Bus 2 AT PATNA	16-12-2019	09:30	21-12-2019	17:30	ODB	POWERGRID ER-1	Commissioning of 125 MVAR Switchable line reactor in Patna Barh line 2 at Patna SS under SS03 package	BIHAR	
47	50MVAR Line Reactor	17-12-2019	09:00	17-12-2019	18:00	ODB	ER-II/Odisha /Indravati	For Arresting Oil Leakage from Turret CT Line Reactor .The Line reactor is not a Switchable One , for Which the Power Flow in the Indravati-Rengali Line will be Interrupt.	DEFFRED	
48	80 MVAR BUA REACTOR-1	17-12-2019	09:00	17-12-2019	18:00	ODB	ER-II/Odisha/Balangir	AMP for 80MVAR B/R-1	DEFFRED	
49	400KV Bus 2 & 500 MVA ICT 1 AT PATNA	17-12-2019	09:30	19-12-2019	17:30	ODB	POWERGRID ER-1	Replacement of Sky bus	BIHAR	
50	500 MVA ICT-1 AT PATNA	17-12-2019	09:30	17-12-2019	17:30	ODB	POWERGRID ER-1	Comisioning of Backup impedancy relay	BIHAR	
51	500 MVA ICT 3 AT PATNA	18-12-2019	09:30	18-12-2019	17:30	ODB	POWERGRID ER-1	Rectification of FO sensor under TR01 Package	BIHAR	
52	63 MVAR, 400 KV SUNDARGARH#3 LINE REACTOR	19-12-2019	16:00	31-12-2019	17:00	OCB	ER-II/ODISHA/ROURKELA	GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEAKAGES	DEFFRED	
53	765 KV 3*120 MVAR LINE REACTOR(707-52LR) at Pusauli	19-12-2019	09:00	20-12-2019	18:00	ODB	POWERGRID ER-I	Retrofitting work of CSD Relay & AMP work	NLDC	
54	3*80 MVAR, 765 KV BR-II at New Ranchi	20-12-2019	09:00	21-12-2019	17:00	ODB	POWERGRID ER-I	AMP	DEFFRED	
55	80 MVAR Bus Reactor at Duburi SS	21-12-2019	09:00	21-12-2019	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		
56	400 KV 125 MVAR BUS REACTOR-1	23-12-2019	09:00	23-12-2019	18:00	ODB	ER-II/ODISHA/ROURKELA	CSD COMMISIONING	DEFFRED	
57	80 MVAR LINE REACTOR of 400 KV RANCHI-SIPAT-1 LINE (NON SWITCHABLE) at Ranchi	23-12-2019	09:30	23-12-2019	17:00	ODB	POWERGRID ER-I	AMP OF L/R	DEFFRED	
58	80 MVAR LINE REACTOR of 400 KV RANCHI-SIPAT-2 LINE (NON SWITCHABLE) at Ranchi	24-12-2019	09:30	24-12-2019	17:00	ODB	POWERGRID ER-I	AMP OF L/R	DEFFRED	
59	100 MVAR Bus Reactor at WBSETCL Jeerat Substation	24-12-2019	09:00	24-12-2019	17:00	ODB	POWERGRID, ER-II	For Leakage Arresting of 100 MVAR Reactor	DEFFRED	
60	63 MVar Bus Reactor	25-12-2019	09:00	25-12-2019	18:00	ODB	ER-II/Odisha /Jeypore	AMP of 63 MVar Bus Reactor & CSD testing	DEFFRED	
61	80MVAR Purnea-1 Line Reactor at Biharsharif	26-12-2019	09:30	26-12-2019	20:00	ODB	POWERGRID ER-I	Relay retrofitment Work	DEFFRED	
62	50 MVAR Sagardighi Line Reactor at Subhasgram	26-12-2019	09:00	26-12-2019	17:00	ODB	POWERGRID, ER-II	Voltage Selection work	DEFFRED	
63	400 KV Patna Barh 1 & 400KV Bus 2 AT PATNA	26-12-2019	09:30	27-12-2019	17:30	ODB	POWERGRID ER-1	Commissioning of 80 MVAR Switchable line reactor in Patna Barh line 1 at Patna SS under SS03 package and jumper connection of 418 bay reactor isolator and testing	BIHAR	
64	80MVAR Purnea-2 Line Reactor at Biharsharif	27-12-2019	09:30	27-12-2019	20:00	ODB	POWERGRID ER-I	Relay retrofitment Work	DEFFRED	