



Minutes of **167th OCC Meeting**

Date:16.03.2020
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

Eastern Regional Power Committee

Minutes of 167th OCC Meeting held on 16th March 2020 at ERPC Kolkata

List of participants is enclosed at **Annexure-A**. Members from Powergrid ER-I, Powergrid Odisha and Jharkhand attended the meeting through VC.

Member Secretary, ERPC chaired the meeting. He welcomed all the participants in the meeting. He informed that in view of COVID-19, the meeting is being conducted through VC also. He suggested all the constituents to take all the precautionary measures to avoid spreading of COVID-19.

Item no. 1: Confirmation of minutes of 166th OCC meeting of ERPC held on 20.02.2020

The minutes of 166th OCC meeting were uploaded in ERPC website and circulated vide letter dated 04.03.2020 to all the constituents.

Members may confirm the minutes of 166th OCC meeting.

Deliberation in the meeting

Members confirmed the minutes of 166th OCC meeting.

PART A: ER GRID PERFORMANCE

Item no. A1: ER Grid performance during February, 2020

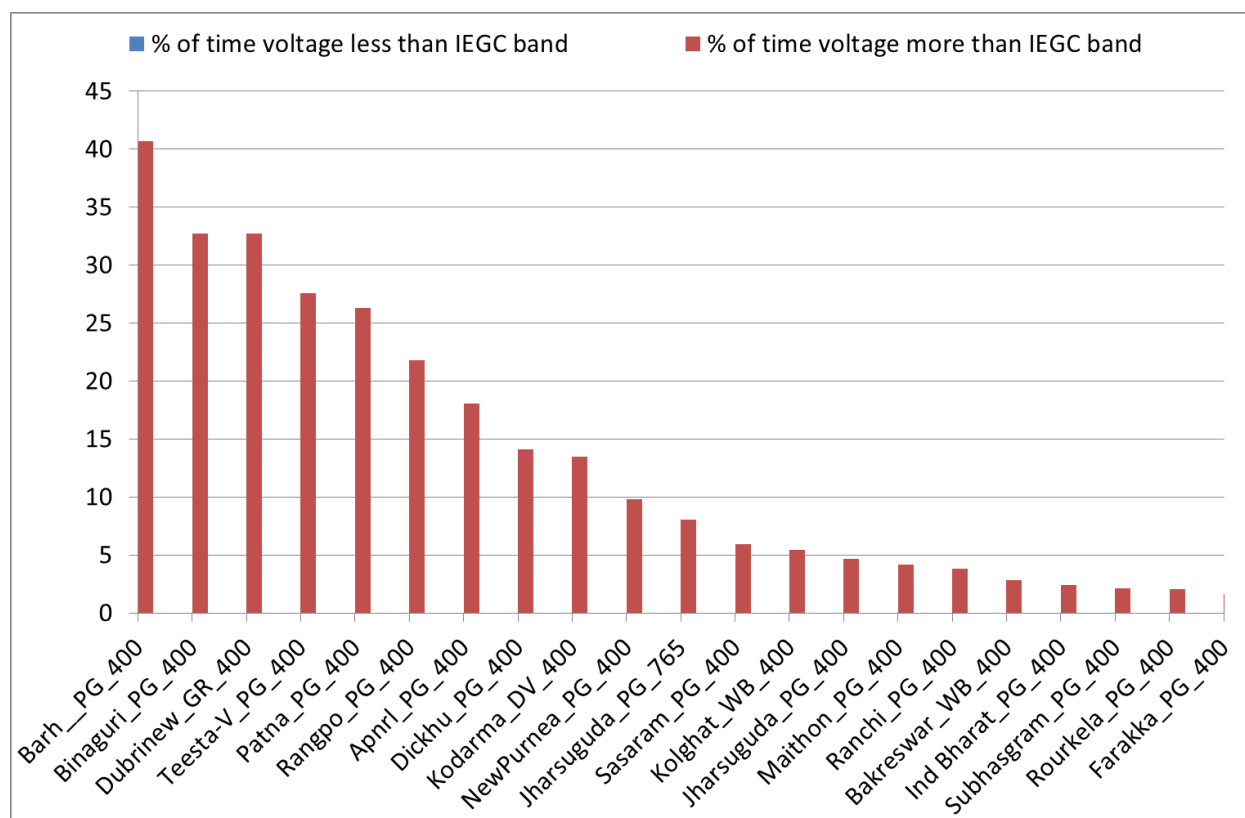
The average consumption of Eastern Region for February – 2020 was 363 Mu. Eastern Region energy consumption reached a monthly maximum of 379.2 Mu on 10th February – 2020. Total Export schedule of Eastern region for February – 2020 was 2863 Mu, whereas actual export was 2963 Mu.

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. Over Voltage issue in ER substations**

High voltage is observed at different nodes in Eastern Region during the month of Feb 2020. Some of the nodes where voltage is beyond IEGC upper limit for significant amount of time during the month of Feb 2020 are shown below.

It can be seen that many of the high voltage nodes such as Barh, APNRL, Kolaghat, Koderma etc. are generator nodes or close to generator node. As generators are not absorbing sufficient MVAR as per their capability curve is one of the reason for this sustained high voltage.



7. Restricted Governor /Free Governor Mode Operation of generators in ER

On 22nd February 2020, at 18:23:18 hrs 1134 MW generation loss occurred at Bara unit II & III in NR resulting frequency drop from 49.968 Hz to 49.905 Hz. FRC of the ER was 14% of ideal response as per tie line flow measured by ERLDC SCADA data. Despite of repeated reminders to generating stations, generation output data are yet to be received from Farakka STPP, KhSTPP, Talcher STPP, BRBCL, Barh STPP, NPGC and JITPL for this event. At the time of the event Dikchu HEP were not in service. Resolution of data received from APNRL is not adequate for analysis. As per the data available at ERLDC, response was satisfactory only for GMR and Teesta III HEP. After tuning of governors, few DVC generating units' such as DSTPS U#1, KTPS U#1 &2, Mejia U#7 & 8 showed satisfactory response during this event. Summary of the response observed is shown in following table.

Category	Regional generating stations and state control area
Satisfactory response	GMR, Teesta III HEP
Response has been observed but tuning required	Teesta V HEP and APNRL (Delayed response observed), DVC and WB (FRC is below satisfactory)

Non-Satisfactory response	FSTPP stage III, KhSTPP, TSTPP, Barh STPP, JITPL, Jharkhand and GRIDCO
Units were ramping up prior to the event	FSTPP stage I&II, MPL and BRBCL
Unit not available	Dikchu HEP

All the generating units and SLDCs are advised to share the reason for non-satisfactory response (whichever applicable) along with remedial action taken. All the regional generating stations and SLDCs are requested to nominate one nodal person for sharing FRC related informations.

8. Severe Fluctuation in Voltage and Power in Jeypore -Gajuwaka Area (HVDC pole 1 tripped) observed on 31 Jan and 4th and 5th Feb 2020

Three events of severe nature have occurred near Jeypore and Gajuwaka Area where severe hunting has been observed in Power and Voltage and HVDC Gajuwaka Pole 1 has tripped.

The timing of the event is as follows:

1. 14:46hrs to 14:51hrs on 31-01-2020
2. 14:34hrs to 14:36hrs on 04-02-2020
3. 08:34hrs to 08:38hrs on 05-02-2020

In addition to the above, similar events have also been observed 17,18, 24 and 25th February 2020. Based on the significant data that has been received from HVDC, OPTCL,OPGC and PMU data at ERLDC, analysis has been carried out with the following observations.

Gajuwaka HVDC Bipole : Power order of HVDC has fluctuated from 100 MW to 600 MW. Pole 1 has observed failure of multiple thyristor on two occasions i.e. 3rd and 4th March 2020. Based on PMU data it was observed that the fault signature of pole tripping on thyristor failure and all these voltage dip are similar in nature

STATCOM at Jeypore : Response is observed due to the Voltage Variation during these events on multiple occasions.

Jeypore-Gajuwaka Line DR from Jeypore : 400 kv Jeypore-Gajuwaka D/C observed power swing on various occasions during these fluctuations and some of them entered in Zone 3. From the voltage and current plot, the normal fault type signature is not observed. Voltage waveform and current waveform are distorted online during fault and harmonic content of 2nd and third harmonics is high. On some occasions FSC of these lines have bypassed at Gajuwaka end on Ferro-resonance.

OHPC Units : Units at Upper Kolab and Balimela have tripped on few occasions on the overall differential protection due to the jerk observed during these events.

OPTCL : No Fault in any transmission line or any frequent Auto-reclosure events in any of the lines.

PGCIL Orissa : No Fault in any transmission lines.

Based on this, it is suspected that these fluctuation are not from the grid side and is due to HVDC. PGCIL is advised to kindly analyse the event further and submit the report.

Members may update.

Deliberation in the meeting

Members noted.

PART B: ITEMS FOR DISCUSSION

Item No. B.1: Single User-credential for submission of schedule data for Inter-regional (IR) LTA/MTOA transactions---ERLDC

Real time market (RTM) is going to be implemented on all-India basis from 1st April, 2020 onwards. For RTM, available Inter Regional (IR) margin for each RTM delivery period needs to be calculated on real time basis and transactions need to in sync for all the time blocks.

Inter-Regional schedule prepared by the RLDC consists of ISGS, URS, LTA, MTOA, STOA and PX transactions. Presently Inter Regional (IR) schedule is prepared by each RLDC separately as per the data submitted by the utilities in RLDC WBES (Web Based Energy Scheduling) application. Since the computations are to be carried out on real time basis, mismatch between two separate entries by seller / buyer, if any, for various transactions need to be avoided.

It may kindly be noted that Regulation 6.4.14 of the Grid Code provides for mutually agreed schedules submission for all ISGS/ LTA/MTOA transactions. In view of above, it has been decided to streamline the scheduling process as below:

1. IR LTA/MTOA schedule data entry shall be done by one authorised entity at one RLDCWBES application.
2. Authorised entity for data submission shall be the “Applicant” of the LTA/MTOA transaction among buyer/ seller / applicant of that transaction. In case of no applicant for the LTA/MTOA, then Data submission right is issued to the buyer of the transaction.
3. The designated utility for data submission (“Applicant” of the LTA/MTOA) shall submit the schedule quantum which is mutually agreed quantum between Buyer and Seller utility at the RLDC in which applicant is registered.
4. Log in credential to the “Applicant” shall be issued by the RLDC in which “Applicant” is geographically located.

The modified Web Based Scheduling to accommodate above mentioned procedure is under development and shall be operationalised by 01st April, 2020.

Procedure of selection of authorized entity for LTA/MTOA transactions and Location of RLDC WBES in which schedule data to be submitted:

Transaction type	Punching Rights given to	Cases	Location of entry
Inter-Regional	Applicant	If Applicant is Seller	Seller Region WBES
		If Applicant is Buyer	Buyer Region WBES
Intra-Regional	Applicant	-	Region where transaction is taken place

Members may discuss.

Deliberation in the meeting

The house was informed that revised DSM mechanism-sign change criterion, Real time market, ramp rate and segregation of peak & off peak would be implemented from 01st April 2020.

OCC advised all the constituents to authorize one entity for IR LTA/MTOA schedule data entry as per the regulation to avoid the errors in data entry.

ERLDC informed that trial operation of Real time market (RTM) would start one week earlier to 01st April 2020.

Item No. B.2: 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.
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In 42nd TCC, Bihar informed that the testing of ADMS would be done by end of December 2019.

Odisha informed that ADMS would be implemented by May 2020.

Sikkim informed that installation of OPGW is in progress, ADMS would be implemented after the installation of OPGW & renovation of sub-station tentatively by 2020.

TCC advised Odisha and Sikkim to implement ADMS at the earliest.

After detailed deliberation, TCC opined that uniform logic and settings are to be implemented for all the states. TCC advised to discuss the issue in next OCC Meeting to formulate uniform logic and setting of ADMS.

In 165th OCC, Bihar informed that ADMS had been tested on 10th January 2020 but it was not successful.

ERLDC gave a presentation on the uniform logic. The proposed logic for ADMS operation is given below:

*If frequency is less than 49.9 Hz for 3 minutes
and
Overdraw/Under injection > 150 MW or 12 %*

OCC advised all the states to go through the presentation and submit their comments to ERPC and ERLDC for finalization of ADMS logic.

In 166th OCC, OCC agreed to the ERLDC proposed logic.

OCC advised all the states to implement above logic in ADMS. It was also decided that the performance of the ADMS would be analyzed in monthly OCC Meetings if necessary, the logic would be reviewed.

Members may update.

Deliberation in the meeting

OCC requested all concerned utilities to communicate the latest status to ERPC Secretariat.

Item No. B.3: Implementation of SPS to avoid overdraw from Jamshedpur (DVC) S/s

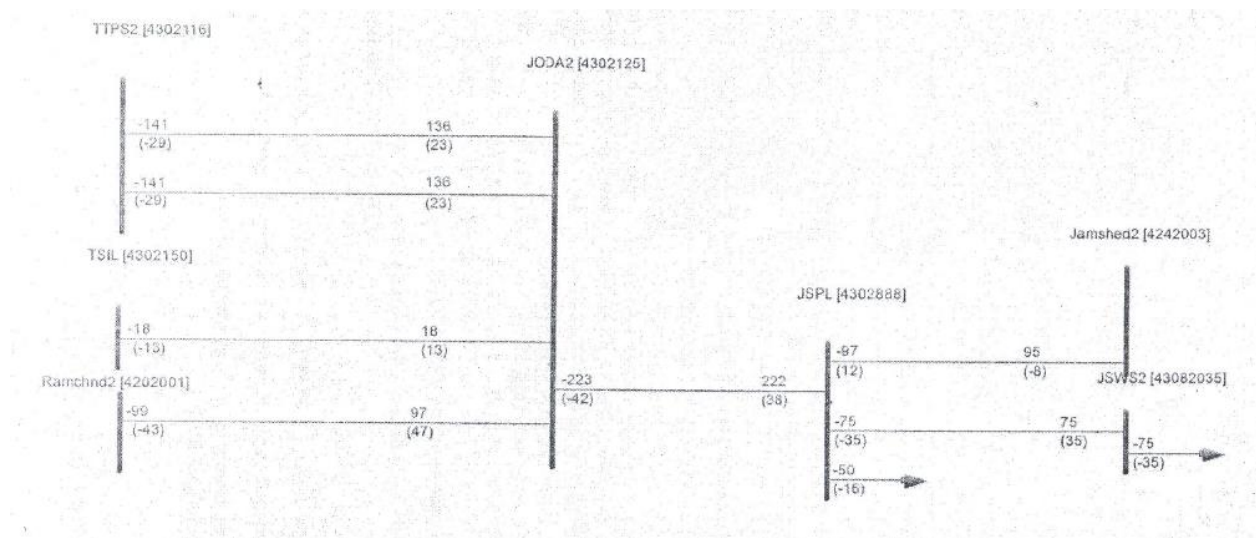
In 8th SSCM, OPTCL informed that they need power assistance of maximum 55 MW from 220kV Jamshedpur S/s, DVC to meet the load of JSPL during replacement work of the conductor of 220kV Joda-JSPL line.

DVC agreed to provide maximum 55 MW from 220kV Jamshedpur S/s during the conductor replacement work, however DVC requested to implement SPS to avoid over drawl from 220kV Jamshedpur S/s during any contingency in the system.

In 165th OCC, DVC requested to implement SPS to avoid over drawl from 220kV Jamshedpur S/s during any contingency in the system.

OCC advised OPTCL to give a requisition and other relevant details to DVC.

OCC decided to discuss the SPS in a separate meeting with all the concerned utilities.



Members may update.

Deliberation in the meeting

OPTCL informed that they are yet to receive the relevant details from JSPL and JSW.

Item No. B.4: Implementation of Automatic Generation Control in Eastern Region

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.

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.

A. Status of implementation of AGC for ISGS stations

Status of implementation as updated in 166th OCC Meeting and 5th TeST Meeting as follows:

SI No	Station	Status of Communication link from plant to substation PGCIL node	Status of communication system integration from unit to plant substation	Target date for implementation of AGC at plant
1	Farakka STPS - I & II	Both links established	Pending	June 2020
2	Kahalgaon STPS - II	Both links established	Pending	June 2020
3	Barh STPS	Both links established	Installed	Running since August 2019
4	NPGC, Nabinagar	Links from Gaya and Patna has been established.	NPGC, Nabinagar informed that OPGW is available but end equipment need to be procured and installed to establish communication link from their station to NLDC. NTPC further informed that they have placed order for providing the end equipment.	June 2020
5	Maithon Power Limited	One link established. Other link, Ranchi-Maithon(RB) would complete by March, 2020.	In progress	April 2020
6	Talcher STPS - I	Both links established.		June 2020
7	Kahalgaon STPS - I	Both links established.	NTPC informed that they are approaching CERC for exemption.	
8	Nabinagar Thermal Power Project - BRBCL	Only one link Sasaram-Nabinagar OPGW installation is pending. It would take two years for completion.		June 2020
9	Darlipalli STPS	Communication established.	Integration is in progress	June 2020

10	Teesta - V	One established link		June 2020
11	Farakka STPS - III	Link established		June 2020
12	MTPS Stage – II (Kanti)	Link established		June 2020
13	Rangit HPS	One established link		June 2020

Note: OPGW from Barh to Gorakhpur is redundant path for ER to NR which would be completed by March, 2020.

Deliberation in the meeting

Members noted.

B. Status of implementation of AGC as a pilot project in states

In 42nd TCC, DVC intimated that AGC shall be implemented in unit 7 and 8 of Mejia as per the given schedule by 31st July 2020.

Odisha informed that SLDC and OPGC will sit together and finalise the scheme.

WBPDCCL informed that they have already collected offer from Siemens for implementation of AGC and they are awaiting the concurrence from SLDC.

SLDC, WB informed that they are not in a position to implement AGC unless a clear direction is given by WBERC. Further, implementation of intra state DSM is a prerequisite for implementation of AGC in the state.

It was decided to request CERC to include this as an issue in the Agenda for discussion in the meeting of Forum of Regulators.

Summary of status of implementation:

State	Station/Unit	Action plan
DVC	Mejia unit#7 &8	<ul style="list-style-type: none"> NIT has been floated. Order placement 30th March 2020 Commissioning of AGC 31st July 2020
West Bengal	Unit-5 of Bakreswar TPP	SLDC, WB to establish the required hardware for generating AGC signal at SLDC.
Odisha	Unit#3 of OPGC	Joint meeting between SLDC, Odisha and OPGC was held wherein, it was decided to visit Barh, NTPC and NLDC to get acquainted with the AGC implementation and formulate a plan.

Members may update.

Deliberation in the meeting

OCC advised all concerned utilities to update status to ERPC Secretariat.

Item No. B.5: 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.

In 163rd OCC, 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.

Thereafter, Powergrid vide letter dated 3rd January 2020 informed that the temporary restoration of the line using ERS could not be completed due to pathetic condition of approach road, unprecedented cold weather condition and continued heavy water current in the Ganga river.

Powergrid added that restoration work is under progress in war footing basis and it is expected to be restored temporarily by 3rd/4th week of January 2020 however permanent restoration is expected to be completed by end of March 2020.

In 24th January 2020 meeting held at Patna, Powergrid informed that both circuits of 400 kV Kishenganj-Patna D/C line was restored through ERS on 22nd January 2020.

In 166th OCC, Powergrid informed that that permanent restoration of both the circuits of 400 kV Kishenganj-Patna D/C lines would be completed by April 2020.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that that permanent restoration of both the circuits of 400 kV Kishenganj-Patna D/C lines would be completed by April 2020.

2. 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.

In 163rd OCC, OCC advised Powergrid to make direct connectivity i.e. 400 kV Barh- Gorahkpur 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.

In 164th OCC, Member Secretary, ERPC informed that a separate meeting with the concerned utilities would be conducted at Patna, Bihar in January 2020.

In 166th OCC, it was informed that one circuit of 400 KV Barh–Motihari(DMTCL) –D/C would be restored through ERS by end of February 2020.

ERLDC informed that shutdown requisition should be submitted by DMTCL in advance so that necessary approval from NR and NLDC can be taken in time.

Members may update.

Deliberation in the meeting

It was informed that DMTCL had already applied for CEA clearance. RIO inspection is scheduled on 16.03.2020.

Item No. B.6: Operationalizing Bus splitting at Biharsariff--ERLDC

Bus split arrangement at Biharsariff was already commissioned, however it was not put in service as split bus arrangement was causing uneven loading in 400/220 kV ICTs at Biharsariff. Thus earlier it was decided that the same will be put in service after commissioning of 4th ICT at Biharsariff. After commissioning of 4th ICT simulation studies are carried out at ERLDC and same is also shared with Bihar SLDC. From the study it is observed that Bus-split at Biharshariff has no significant effect on loading of 400 KV lines but 400/220 KV ICT flows is getting significantly skewed.

- N-1 contingency of 500 MVA ICT-IV leads to 265 MW loading on ICT –II (315 MVA rating) where in base case without bus-split, total ICT loading at Biharshariff was 560 MW and Bihar demand 4650 MW.
- If we consider summer peak case having 6000 MW Bihar demand with 660 MW Biharshariff ICTs loading, N-1 contingency of 500 MVA ICT-IV leads to 301 MW loading on ICT –II (315 MVA rating).

In 166th OCC, ERLDC informed that no network constraint had been observed during the simulation study.

OCC advised Bihar to check the demand considered for the simulation study and send their comments to ERLDC within a week, if any.

Members may discuss.

Deliberation in the meeting

OCC advised Bihar to send the updated demand details to be considered for the simulation study to ERLDC.

Item No. B.7: Fuel Gas Desulphurization (FGD) Implementation Plan for compliance to new environment norms for left out plants and the plants yet to be commissioned--CEA

CEA requested to provide the phasing plan for left out plants and the plants yet to be commissioned.

In 166th OCC, all the generating utilities were advised to update the status through mail to ERPC by 24th February 2020.

The relevant details were received from the following utilities:

- NTPC stations(except Darlipali STPP)

- DVC
- OPGC IB-II,
- CESC and HEL

The relevant details were not received from the following utilities:

- NTPC Darlipali STPP
- WBPDC
- OPGC IB-I
- MPL
- JITPL
- GMR
- India Power TPP

The members are requested to furnish the updated implementation Plan for FGD in the ensuing TCC meeting scheduled to be held at Bhubneswar on 20.03.2020 and also to CEA (E-mail: cea-tmd@nic.in with a copy to ERPC (E-mail: mserpc-power@nic.in) .

Members may submit their plan of implementation.

Deliberation in the meeting

It was informed that the relevant details have been received from NTPC Darlipalli STPP.

WBPDC informed that they had already communicated details to CEA.

OCC advised WBPDC to send a copy to ERPC Secretariat.

OCC advised other generating utilities to send the updated status to ERPC.

Item No. B.8: Report of expert group to review India Electricity Grid Code(IEGC)--ERLDC

The Commission vide office order dated 28.5.2019 constituted an Expert Group to review “Indian Electricity Grid Code and other related issues” under the Chairmanship of Shri Rakesh Nath, Ex-Chairperson, CEA & Ex-Member (Tech) of APTEL with Shri A.S.Bakshi, Ex-Chairperson, CEA & Ex-Member, CERC, Shri Ravinder, Ex-Chairperson, CEA & ExChief (Engg.), CERC as Members and Shri S.C.Shrivastava, Chief (Engg.), CERC as Member, Convenor. The group co-opted Shri S.R.Narasimhan, Director (S.O), POSOCO and Shri Hemant Jain, Chief Engineer (G.M), CEA as Members of the Expert Group.

The Expert Group has finalized its recommendation as per comments received from various stake holder and several expert group meetings in the form of draft Indian Electricity Grid Code (IEGC), 2020, which is published in CERC website at the following link
<http://cercind.gov.in/2020/reports/Final%20Report%20dated%2014.1.2020.pdf>

In 165th OCC, members requested Member Secretary, ERPC to conduct a workshop on the draft Indian Electricity Grid Code (IEGC), 2020 for better understanding.

Member Secretary, ERPC agreed to conduct the workshop in February 2020.

As per the OCC decision, the workshop was conducted at ERPC on 13th February, 2020 wherein Shri S. R. Narasimhan, Director (SO), POSOCO gave a detailed presentation.

In the workshop, it was informed that all states may submit their comments on the draft Indian Electricity Grid Code (IEGC), 2020 for further discussion.

Members may discuss.

Deliberation in the meeting

Members noted.

Item No. B.9: Review of implementation of PSDF approved projects of Eastern Region.

NLDC (POSOCO) being the Nodal Agency for PSDF schemes, is carrying out PSDF Secretariat function under directions of MoP. Recently NLDC is directed by MoP to disburse the PSDF sanctioned funds as early as possible as its non-utilization is being viewed seriously by MoP on various fora.

In view of the above, status review of the projects being executed under PSDF funding in Eastern Region, is required to be carried out on regular basis for expediting the projects.

All the constituents are requested to furnish/update the status of their respective project in every OCC and also requested to submit requisition for disbursement to NLDC at the earliest by 1st February 2020, so that amount may be released by 31st March 2020.

*In 166th OCC, Members updated the status as mentioned in **Annexure-B9**.*

Member Secretary, ERPC informed that there is no progress in some projects which are already granted fund from PSDF. Such projects would be scraped and the fund would be diverted to other projects. Therefore, he advised all the state utilities to accelerate the work.

Members may update.

Deliberation in the meeting

OCC advised all constituents to communicate the updated status to ERPC.

Item No. B.10: Commissioning of 2 X 240MVAR LR of Mednipur Line at New Ranchi SS as Bus Reactor: Powergrid

2 nos of 765 kV Line bays along-with 240 MVAR switchable line reactors at New Ranchi SS for 765kV Ranchi-Medinipur line (Line under TBCB) under ERSS XVIII will be ready for charging by March, 2020. The schedule commissioning of the said Reactor is 01/08/2020. The 765kV New ranchi Mednipur D/C Line is anticipated to be ready for charging by June, 2020.

As per the voltage profile of 765kV Bus at New Ranchi SS for the month of February , 2020 (trend enclosed) the voltage of 765kV bus remains in the range of 780-790 KV. After taking the both 240 MVAR Line Reactors in service the voltage condition of 765KV Bus at New Ranchi will improve.

The said agenda was discussed in 42nd TCC/ERPC meeting and it was opined that further discussion may be carried out in lower forum of ERPC before approval of the same. Ahead of schedule commissioning of the above assets may kindly be agreed considering the requirement of grid.

Powergrid may explain.

Deliberation in the meeting

Powergrid informed that 240 MVAR switchable line reactors of 765kV Ranchi-Medinipur line (only the line under TBCB project) at New Ranchi SS is ready for commission. Powergrid requested to consider the charging of the line reactors as bus reactor at New Ranchi S/s in end of March 2020 instead of scheduled commissioning date of 1st Aug 2020.

After detailed deliberation, OCC allowed for charging of 240 MVAR switchable line reactors of 765kV Ranchi-Medinipur line as bus reactors at New Ranchi.

OCC advised Powergrid to place the detailed explanation on contribution of the reactors in controlling the voltage profile in next OCC Meeting.

Item No. B.11: Testing and Calibration of Special Energy Meter: Powergrid

As per decision of 42nd TCC/ERPC and 41st CCM meeting, the testing and calibration of SEM to be carried out which are old and highly time drifted and accordingly the list of 314 SEM's have been also received from ERLDC.

Matter regarding testing & calibration and time drifting has been taken up with concerned vendors involved in testing and calibration. Vendors are ready for doing the testing however they are not ready to set right the time drifting as it is only possible through OEM i.e. L&T. The matter has also been taken up with OEM (M/s L&T), who have confirmed that the heavily time drifted meter shall required to be sent to factory for time correction.

In view of the above it is proposed that time drifting issue may be excluded from the scope of testing and calibration of SEMs. Bulk time drifting issue may be taken up separately.

Powergrid may explain.

Deliberation in the meeting

Powergrid informed that 140 Time Drifted SEMs were already replaced.

OCC opined that in order to take the appropriate decision, the cost involvement in calibration, Testing and time correction to be compared with cost of new meters.

OCC advised Powergrid to take the cost estimation for correction of time drift, testing & calibration and send the details to ERPC and ERLDC.

Item No. B.12: Proposal for procurement of SEM on account of Bhutan.--Powergrid

In 166th OCC, DCD (data downloading device) used to download the energy meter data from SEM energy meter of 400kV Siliguri and 220kV Binaguri feeder has gone faulty because of which Malbase substation is not able to send the meter data to the concerned authority since 06.01.2020.

Powergrid informed that no spare DCDs are available.

After detailed discussion, it was decided that some DCDs are to be procured and kept as spares.

OCC advised Powergrid to prepare an estimate and send the details to ERPC Secretariat.

Thereafter, Powergrid informed that at present there are multiple connectivity exists between Bhutan & India (Jigmeling, Malbase, Tala & Chukha) from Eastern Region. At Bhutan side also, SEM installed as per POWERGRID TS & installed on behalf of PTC. During normal maintenance activity it is observed that due to different snag in the SEM or associated data collecting devices, the SEM data could not be received at ERLDC/NLDC.

The matter already discussed in 166th OCC Meeting held on 20 Feb 2020. In 166th OCC, it was recommended for procurement of few DCD's & SEM on account of different S/S of Bhutan, where SEMs are already installed on behalf of PTC.

The technology up-gradation had already taken place in SEM, therefore, it is better to migrate from old SEM where DCD is still required to new type SEM where data can be fetched by Laptop.

Based upon requirement of the SEM the said items will be handed over to Bhutan by POWERGRID on behalf of PTC. However, Installation & maintenance of all SEM & associated devices installed at Bhutan will be sole responsibility of concerned transmission licensee of Bhutan only. At present GENUS make is SEM is already available with Eastern Region and the same make is considered for Bhutan also and approximate cost of procurement of 20 nos SEMs shall be Rs. 3,19,166/- including GST.

Above SEM will be kept in stock at nearby POWERGRID S/S (Alipurduar/Binaguri) & based upon requirement generated at Bhutan it will be handed over on receipt of request through PTC. Necessary installation & maintenance to be taken care by Bhutan only. Cost to be recovered from PTC on one time reimbursement basis.

Powergrid may explain.

Deliberation in the meeting

Powergrid informed that based on the requirement of the SEMs, the said items will be handed over to Bhutan by Powergrid on behalf of PTC. However, Installation & maintenance of all SEMs & associated devices installed at Bhutan will be sole responsibility of concerned utility of Bhutan only.

OCC advised Powergrid to coordinate with Bhutan for completion of the work.

OCC decided that the entire cost for completion of above work would be recovered from PTC.

Item No. B.13: Auxiliary Power consumption by Powergrid-- GRIDCO

GRIDCO informed that in 163rd OCC Meeting, OCC advised Powergrid to file a petition before OERC for exemption of Security Deposit, Maximum charges, Meter rent etc.

GRIDCO added that Powergrid not yet approached OERC.

In 166th OCC, Powergrid informed that they are in process of filing the petition before OERC. The petition would be filed by end of February 2020.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that petition would be filed in March 2020.

OCC advised Powergrid to send the updated status to ERPC.

Item No. B.14: Shutdown of 220 kV Bus at 400/220/132kV Rangpo Substation-- Madhya Bharat Power Corporation Limited

Madhya Bharat Power Corporation Limited informed that they need shutdown of both 220kV Bus at 400/220/132kV Rangpo Substation for completing the testing and commissioning activities of their 220kV bays.

In 166th OCC, ERLDC informed that, the generation of Tashiding and Jorethang HEP would be affected during both 220kV Bus shutdown.

Representatives from Tashiding and Jorethang HEP were not available in the meeting.

After deliberation, OCC approved the single bus shutdown of 220kV Bus at 400/220/132kV Rangpo Substation from 25th February 2020 to 4th March 2020 as per shutdown request placed by Madhya Bharat Power Corporation Limited.

For the both bus shutdown, OCC decided to discuss the issue in a separate meeting with Madhya Bharat Power Corporation Limited, Shiga Energy, Powergrid ER-II, and ERLDC. The meeting would be held at 15:00 hrs on 26th February 2020 (tentatively).

*As per the OCC decision special meeting had been convened at ERPC on 26th February 2020. Minutes of the meeting are enclosed at **Annexure-B14**.*

Members may note.

Deliberation in the meeting

It was informed that the work is in progress as per the decision taken in above separate meeting.

Item No. B.15: Shutdown of 400kV Nabinagar-Sasaram D/C line and 400kV Sasaram-Daltonganj D/C line -- Powergrid

Powergrid vide letter dated 18th February requested for the shutdown of 400kV Nabinagar-Sasaram D/C line and 400kV Sasaram-Daltonganj D/C line. Letter is enclosed at **Annexure-B16.3**.

In 166th OCC, ERLDC informed that generation of BRBCL would be effected during the shutdown of 400kV Nabinagar-Sasaram D/C line.

After deliberation, OCC decided that the issue would be discussed in a separate meeting with the concerned utilities.

In line with OCC decision, a special meeting was convened at ERPC on 12th March 2020.

Members may note.

Deliberation in the meeting

Minutes of above meeting enclosed at Annexure- B15.

Item No. B.16: Additional agenda

PART C: ITEMS FOR UPDATE

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

UFR Healthiness Certification for the month of February 2020 has been received from OPTCL, CESC, WBSETCL, DVC, BSPTCL and JUSNL.

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.

In 42nd TCC, BSPTCL informed that they had already replaced the defective UFR. BSPTCL added that they are in process of reviewing the UFR list.

In 166th OCC Meeting BSPTCL informed that they are in process of reviewing the UFR list.

Bihar may update

Deliberation in the meeting

OCC advised BSPTCL to send list to ERPC.

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 February, 2020 has been received from NTPC, West Bengal, JUSNL, WBPDC and CESC.

In 163rd OCC, 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.

DVC may update.

Deliberation in the meeting

DVC informed that units 5 & 6 of Mejia TPS were old and not in service. They are planning to implement the islanding scheme with unit 7 and unit 8 of Mejia TPS.

OCC advised DVC to share the plan of their new islanding scheme to ERPC. OCC also advised CESC to send the updated details of their islanding scheme to ERPC.

A. Status of Islanding Scheme of IBTPS

Islanding scheme of IBTPS was discussed and finalized in earlier OCC and PCC meeting, OPGC ensured that the islanding scheme will be in place within 6 months post finalization of scheme.

OPGC may update.

Deliberation in the meeting

OCC advised OPGC to share the status of islanding scheme to ERPC.

B. Status of Islanding Scheme of KBUNL

As the islanding Scheme discussion is not progressing , it is desired that one Meeting at ERPC or KBUNL may be called where the scheme finalization may be completed.

Members may discuss.

Deliberation in the meeting

KBUNL informed that they are ready to implement the islanding scheme but they need confirmation from Bihar on availability of radial load at Gopalganj.

OCC advised BSPTCL to go through the islanding scheme finalised in earlier OCC Meetings and advised to take necessary action to provide the radial load for the islanding scheme.

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

The Status of healthiness certificate for February, 2020 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

In 166th OCC Meeting Powergrid informed that they had submitted the healthiness certificate.

ED, ERLDC informed that SPS at Talcher to backing down the generation at JITPL, GMR and Talcher NTPC in case of HVDC tripping, may not be required with the present network condition. He suggested to review the SPS.

OCC suggested ERLDC to carry out a preliminary study and place the results in next OCC Meeting.

ERLDC may update.

Deliberation in the meeting

Members noted.

Item no. C.4: Review of the PSS Tuning of Generators in Eastern Region --ERLDC

Power System Stabilizer (PSS) tuning is an ongoing exercise in Eastern regional grid after observation of various low frequency oscillation from time to time in the grid. In line with this, OCC has decided that all generating plants in eastern region will submit their PSS tuning plan to ERLDC/ERPC and the test reports for validation. During last 4 years, 39 Units PSS have been tuned whose details are given at **Annexure-C4.1**. While the units where PSS have not been

tuned in last three are given in **Annexure-C4.2**. It has been observed that utility such as OPGC, OHPC, WBSEDCL, NTPC, GMR and few others have yet not submitted their plan for PSS tuning to ERLDC/ERPC.

In view of the above, all generating utilities who have not yet submitted their PSS tuning plan are advised to submit the same to ERLDC/ERPC in compliance to CERC and CEA regulation on Power System stabilizer and associated tuning for reliability and security of the Grid.

OCC advised all the generating utilities to go through the Annexures and submit the plan for PSS tuning to ERPC and ERLDC.

Members may update.

Deliberation in the meeting

OCC advised all the constituents to take necessary action to complete PSS tuning and send the reports to ERLDC and ERPC.

Item no. C.5: Automatic Under Frequency Load Shedding (AUFLS) Scheme

In the 2nd meeting of NPC held on 16th July 2013, the following AUFLS scheme with 4 stages of frequency viz. 49.2 Hz, 49.0 Hz, 48.8 Hz & 48.6 Hz had been decided to implement in all the regions:

AUFLS	Frequency (Hz)	Load relief in MW					
		NR	WR	SR *	ER	NER	Total
Stage-I	49.2	2160	2060	2350	820	100	7490
Stage-II	49.0	2170	2070	2360	830	100	7530
Stage-III	48.8	2190	2080	2390	830	100	7590
Stage-IV	48.6	2200	2100	2400	840	100	7640
Total (MW)		8720	8310	9500	3320	400	30250

*SR grid not integrated with NEW grid at that point of time.

The scheme had been implemented throughout the country.

In 7th NPC meeting held on 08th September 2017, it was agreed that there is need for review of the quantum of load shedding. The RPCs were to deliberate on additional slabs of frequency as well as raising the set frequency for UFR operation and inform the outcome to NPC.

In 8th NPC meeting, held on 30.11.2018, members agreed for the AUFLS scheme with 4 stages and raising the frequency by 0.2 Hz viz. 49.4, 49.2, 49.0 & 48.8 Hz. It was further decided that the quantum for AUFLS would be reworked by NPC Secretariat considering the requirement of load shedding to increase the frequency to 50 Hz in each stage of AUFLS operation.

In 9th NPC meeting held on 22.11.2019, it was decided to implement the AUFLS scheme with 4 stages and raising the frequency by 0.2 Hz viz. 49.4, 49.2, 49.0 & 48.8 Hz by keeping the quantum for AUFLS same as decided in 2nd NPC Meeting. It was also decided that a committee with all RPCs and NLDC would study and review the required quantum for each slab of AUFLS and submit a report to NPC. Minutes of the meeting are awaited.

The total load quantum for ER constituents is given below:

Control Area	Stage –I (49.4 Hz) (MW)	Stage –II (49.2 Hz) (MW)	Stage–III (49.0Hz) (MW)	Stage–IV (48.8Hz) (MW)	Total Relief by Control Area
Bihar	98	99	99	101	397

Jharkhand	61	62	61	62	246
DVC	134	135.5	136	137	542.5
Odisha	181.5	183.5	184	186	735
WB & CESC	345.5	350	350	354	1399.5
Total	820	830	830	840	3320

In 42ndTCC, all the constituents were advised to implement the revised AUFLS scheme as per the NPC decision within a month and submit a report to ERPC Secretariat and ERLDC.

TCC decided to review the implementation status in the next OCC Meeting.

In 164th OCC, all the SLDCs and STUs were advised to implement the revised AUFLS scheme by 1st week of January 2020 and submit a report to ERPC Secretariat and ERLDC.

In 165th OCC, JUSNL informed that revised AUFLS scheme had been implemented in Jharkhand except at Lalmatia and Jamthara.

DVC, Bihar and Odisha agreed to implement the revised AUFLS scheme by 31st January 2020. WBSETCL and CESC agreed to implement the revised AUFLS scheme by 15th February 2020.

In 166th OCC, JUSNL informed that revised AUFLS scheme had been implemented in Jharkhand except at Latehar feeder.

Odisha, CESC, Bihar and DVC informed that revised AUFLS scheme had been implemented.

OCC advised JUSNL, CESC, Bihar and DVC submit the list of feeders along with the load.

Members may update.

Deliberation in the meeting

All the utilities confirmed that the revised AUFLS scheme had been implemented.

OCC advised concerned utilities to submit the list to ERPC at the earliest.

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

Latest status of State ATC/TTC declared by states for the month of May-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	--	Mar-20
2	JUSNL	1172	--	31	--	1141	--	Apr-20
3	DVC	1553	2799	65	51	1488	2748	May-20
4	OPTCL	3382	1386	84	61	3298	1325	May-20
5	WBSETCL	4010	--	400	--	3610	--	Feb-20
6	Sikkim	295	--	2.5	--	292.5	--	Dec-19

Members may update.

Deliberation in the meeting

OCC advised Bihar, West Bengal and Sikkim to compute ATC/TTC and submit the details to ERLDC at the earliest.

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	28 March 2020
2	Maithon	1 st week of June 2019	Taken up only after replacing the governing systems of the units	1st Week of February 2020	After June 2020
3	Rengali	2 nd week of June 2019	Done on 27 th June 2019	Last week of November 2020	Done on 17 th January 2020
4	U. Indarvati	3 rd week of June 2019	Done on 7 th November 2019	2nd week of February 2020	March 2020
5	Subarnarekha	1 st week of October 2019	Done 20 th August 2019	1st week of January 2020	After Aug 2020
6	Balimela	3 rd week of October 2019	Done on 17 th July 2019	1st week of March 2020	Done on 12 th Feb 2020
7	Teesta-V	2 nd week of May 2019	Done on 28 th Nov 2019	Last week of February 2020	
8	Chuzachen	Last Week of Dec 2019	Done on 5 th December 2019	Last week of March 2020	
9	Burla	Last Week of June 2019	Done on 20 th July 2019	Last week of February 2020	Done on 11 th Feb 2020
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	Attempted on 19 th Feb 2020 but not successful

Members may update.

Deliberation in the meeting

Members updated the status as mentioned in above table.

Item no. C.8: Summary of Status Update on Previous agenda items in OCC

OCC	Agenda	Decision	Status Update
155	C.22: Collection of modeling data from	OCC advised all the constituents to submit the details of	

	Renewable as well as conventional energy generators: ERLDC	<p>renewable power plants of 5 MW and above.</p> <p>157th OCC advised all the SLDCs to submit the details to ERPC and ERLDC.</p> <p>Format along with an explanation for collection of Wind and Solar Data has been shared by ERLDC to all SLDC.</p> <p><i>OCC advised Bihar, West Bengal and Orissa to submit the relevant details to ERLDC.</i></p>	
156	Low frequency Oscillation at MTDC BNC-ALP-Agra	<p>OCC Advised ERTS-2 to submit the analysis report to ERLDC/ERPC</p> <p>159th OCC Powergrid informed that the issue was referred to ABB, Sweden.</p> <p><i>The report is yet to be received from ABB</i></p>	
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>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 kVChukha-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>DGPC informed that by Feb 2020 end, they will implement the A/R at Tala.</i></p>	
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In 164th OCC, DGPC informed that they are still analyzing the performance of autorecloser at Chuka end.

OCC advised Bhutan representatives to submit the relevant details (DR and relay settings) of autorecloser at Chuka end to ERLDC. The issue would be placed in next PCC Meeting for fruitful discussion.

Members may update.

Deliberation in the meeting

OCC advised all concerned utilities to communicate the latest status to ERPC.

Item no. C.9: Submission of Renewable Generation data on daily basis West Bengal--ERLDC

West Bengal has total renewable installed capacity of 178.5 MW (65 MW solar, 95.5 MW small hydro, 16 MW biomass and 2 MW wind). Presently WBSETCL sends the renewable energy generation data in mu on monthly basis at around 20th of every month to MIS department. As per the monthly energy file of October-2019, total renewable generation was 28.559 MU, which comes to daily generation of around 0.9 MU. On November-2019 & December-2019 the daily generation figure is around 0.5 MU and 0.3 MU respectively. As this generation data is being sent as a consolidated monthly figure only, almost 20 days after end of each month, this significant quantum of daily generation is not being reflected in the daily PSP report prepared by ERLDC and sent to MOP, CEA and other higher authorities.

In view of this, in order to make the daily PSP report complete, WBSETCL is being advised to send daily MU figure of renewable generation plant-wise or total wind/solar by the end of each night-shift or by the next day.

SLDC, WBSETCL may deliberate

Deliberation in the meeting

OCC advised SLDC, West Bengal to submit the details to ERLDC.

Item no. C.10: 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 out 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 months 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 SLDC/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

In 163rd OCC, OCC advised all the constituents, SLDCs and ISTS licensees to submit the details to erldcprotection@posoco.co.in as per the format.

List of upcoming Transmission Element is received from Bihar and Jharkhand.

In 166th OCC Meeting ERLDC informed that relevant details had been received from Powergrid ER-II.

OCC advised other concerned transmission licensees to submit the details to ERLDC at the earliest.

DVC, OPTCL , WBSETCL and Sikkim may update.

Deliberation in the meeting

OCC advised concerned utilities to communicate the details to ERLDC.

Item no. C.11: 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.

In 42nd TCC, Powergrid updated that reconductoring of 11 km of both the circuits out of 110 km line had been completed (9.3 km in West Bengal and 1.7 km in Sikkim).

Powergrid further informed that they are facing severe ROW issues in Sikkim and requested Power and Energy Department, Govt. of Sikkim to support in resolving the ROW issues.

Powergrid added that they are putting all the efforts to complete the reconductoring work of both 400 kV Rangpo-Binaguri D/C lines by April 2020.

TCC advised Powergrid to complete the work as per the schedule so that evacuation of hydro power from Sikkim would not get affected in the coming monsoon season.

TCC requested Sikkim to help Powergrid in resolving the ROW issues for smooth completion of the reconductoring work.

ERPC Secretariat informed that a Committee with members from ERPC Secretariat, WBSETCL, PGCIL, TVPTL has been formed to monitor the progress of the work and the Committee would visit the site in every two months.

PGCIL was requested to furnish the status of progress to ERPC Secretariat every month for discussion in the OCC meeting.

In 165th OCC, Powergrid updated that reconductoring of 14 km of both the circuits out of 110 km line had been completed.

Powergrid added that 70% of the line is in hilly area and reconductoring of the hilly area would be completed by April 2020. Rest of the reconductoring work would be carried out by taking single circuit shutdown.

In 166th OCC, Powergrid updated that reconductoring of 19 km of both the circuits out of 110 km line had been completed.

Powergrid may update.

Deliberation in the meeting

Powergrid updated that reconductoring of 38 km of both the circuits out of 110 km line had been completed.

Item no. C.12: Verification of transmission line parameter during shutdown--ERLDC

During the charging of any new transmission line, its owner provides corresponding line length, using that and standard per KM parameters as available CEA transmission planning criteria manual, R X & B parameter of the lines are determined and same is used in simulation studies. However such modeling may not be 100 % accurate representation of the line. Further for old lines the paramet may differ slightly due to increasing sag over time. Thus to take of same it is

proposed that the transmission utility may carry out offline measurement of the line parameter during a planned shutdown of line. The measured value may be shared with ERLDC/ERPC.

Members may submit the details.

Deliberation in the meeting

OCC advised concerned utilities to communicate details to ERLDC.

Item no. C.13: Sharing of test report after major annual overhauling of Powerplants--ERLDC

During major annual overhauling of Powerplants, many tests are conducted at the site level to access the healthiness of the unit and determine its characteristics. Some of these test reports are helpful in verifying and tuning of the offline simulation model of the generating unit. Thus it is proposed to submit some of the test reports like OCC, SCC, excitation step test, V-curve, etc. after such major overhauling to ERPC/ERLDC.

Members may submit the details.

Deliberation in the meeting

OCC advised concerned utilities to send the details to ERLDC.

Item no. C.14: Sharing of information/data after major retrofitting work of Powerplants--ERLDC

Some of the powerplants go through major retrofitting work, like change in excitation system, governor module etc. however, information of the same is not shared on regular basis. Thus it is proposed to submit details of such retrofication work along with relevant data to model the same in simulation software (as per already circulated format) whenever such retrofitting work is taken up.

Members may submit the details.

Deliberation in the meeting

OCC advised concerned utilities to send the details to ERLDC.

Item no. C.15: Submission of Thermal Loading of Transmission line and associated terminal equipment by ISTS licensee

Thermal Loading of Transmission line and associated terminal equipment is one of the most vital data which is utilized for Operation Purpose, calculation of ATC/TTC and various other studies. This information has to be submitted by the transmission utilities. However even after regular follow-up in past several OCC meetings, significant delay has been observed in submission. Status of submission of data upto first week of December 2019 is as follows:

Name of Utility	Whether End Equipment Rating Submitted or Not?
PGCIL ERTS-1 and ERTS-2	<i>Received from Powergrid ER-II.</i>
DMTCL	NA
POWERLINKS	NA
Sterlite (ENICL, OGPTL, PKTCL)	NA

TVPTL	NA
Alipurduar Transmission Limited	NA
Powerlink	NA
CBPTCL	NA
OPTCL	Submitted (Revised list given to OPTCL for submission)
WBSETCL	Submitted
BSPTCL	Submitted
DVC	Submitted
JUSNL	NA

Members may update.

Deliberation in the meeting

OCC advised concerned utilities to send the details to ERLDC.

Item no. C.16: Frequent tripping of 400 kV Meramandali-Mendasal-II--ERLDC

400 kV Meramandali-Mendasal-II was charged for first time on 28th Feb 2020. However, post charging of the line reliability of the same is very poor and within the span of 10 days it has tripped multiple number of times. Recent tripping of the line is listed below

SL NO	Element Name	Tripping Date	Tripping Time	Reason: Meerar	Reason: Mendhasal en	Revival Date	Revival Time
1	400KV- MEERAMUNDALI- MENDHASAL-II	01-03-2020	07:47	DT received at Meeramundali	Tripped from Meramundali end only	01-03-2020	09:02
2	400KV- MEERAMUNDALI- MENDHASAL-II	02-03-2020	13:27		R-N ,Z-1, 36KM, 6KA	03-03-2020	13:18
3	400KV- MEERAMUNDALI- MENDHASAL-II	06-03-2020	11:48	DT received at Meeramundali	Tripped from Meramundali end only	06-03-2020	12:23
4	400KV- MEERAMUNDALI- MENDHASAL-II	06-03-2020	13:29	DT received at Meeramundali		06-03-2020	14:03
5	400KV- MEERAMUNDALI- MENDHASAL-II	08-03-2020	13:40	RN,70.9KM, 3.82 KA	Z1,RN,43 KM, 3.7 KA	08-03-2020	18:51
6	400KV- MEERAMUNDALI- MENDHASAL-II	09-03-2020	13:17	R_N, 34 km	R-N, Z1, 74km, 3.34 KA	09-03-2020	18:20
7	400KV- MEERAMUNDALI- MENDHASAL-II	10-03-2020	13:01	R-N, 8.08 KA,35.6 km	R-N,72.5KM		

Such frequent tripping of EHV lines is detrimental for security of the grid as a whole. OPTCL may explain the reason for such frequent tripping and place the steps taken to avoid the same in future.

OPTCL may explain.

Deliberation in the meeting

OPTCL explained that trippings in sl no 1, 3, 4 occurred due to cable problem at Meramundali and the same has been rectified.

OPTCL added that other trippings including tripping occurred on 16th March 2020 were due to less clearance with the low voltage line. They are taking necessary action to resolve the issue.

OCC advised OPTCL to give detailed report of incidence to ERLDC and ERPC.

PART D:: OPERATIONAL PLANNING

Item no. D.1: Anticipated power supply position during April 20

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of April 20 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. presented in the meeting

Members may confirm.

Deliberation in the meeting

OCC requested members to update the abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of April 2020.

Item no. D.2: Shutdown proposal of transmission lines and generating units for the month of April 20

Generator shutdown for April 20 presented in the meeting

ERLDC may place the list transmission line shutdown discussed on 12th March 2020 through VC.

400 kV Gaya Nabinagar D/C line on continuous basis from 25.03.20 to 03.04.20 for making LILO at upcoming Chandauti Sub-station (under TBCB)

Members may confirm.

Deliberation in the meeting

Powergrid explained with a presentation that shutdown of Gokarna- Purnea and Farakka – Gokarna SC line is required for 10 hours.

*Powergrid requested shutdown of Berhampur S/S for commissioning of 400 k V Berhampur – Bangladesh 3/4 line . Substation SLD is enclosed in **Annexure – D2.1**.*

OCC advised WBSETCL to provide shutdown on 29 March 2020 from 8 AM to 6 PM.

*Approved shutdown list is enclosed at **Annexure-D2.2**.*

Item no. D.3: Prolonged outage of Power System elements in Eastern Region as on 10-03-2020

(i) Thermal Generating units:

S.No	Station	Agency	Unit No	Capacity(MW)	Reason(s)	Outage (Date)
1	CHANDRAPURA TPS	DVC	3	130	TURBINE BLADE DAMAGE	30-Jul-2017
2	BANDEL TPS	WBPDC	5	210	RSD/LOW SYSTEM DEMAND	05-Feb-2020
3	BURLA HPS/HIRAKUD I	OPTCL	5	37.5	R & M WORK	25-Oct-2016
4	KOLAGHAT	WBSETCL	1	210	POLLUTION CONTROL PROBLEM	10-May-2018
5	RTPS	DVC	2	600	RSD/LOW SYSTEM DEMAND	23-Feb-2020

6	KODERMA	DVC	2	500	Less Scheduled Demand due to Regulation imposed on Jharkhand	08-Mar-2020
7	MEJIA TPS	DVC	2	210	RSD/LOW SYSTEM DEMAND	05-Jan-2020
8	KOLAGHAT	WBSETCL	6	210	RSD/LOW SYSTEM DEMAND	16-Jan-2020
9	MUZAFFARPUR TPS	BSPHCL	2	110	RSD/LOW SYSTEM DEMAND	19-Oct-2019
10	TTPS	OHPC	6	110	Maintenance/ Annual Overhauling	26-Feb-2020
11	SAGARDIGHI	WBSETCL	3	500	ANNUAL OVERHAULING	19-Jan-2020
12	JITPL	JITPL	1	600	Problem in ID Fan	09-Mar-2020
13	JITPL	JITPL	2	600	PA fan #A Vibration running High	03-Mar-2020
14	DPL	WBPDC	7	300	ASH HANDLING PROBLEM	04-Feb-2020
15	KOLAGHAT	WBSETCL	2	210	ESP field Maintenance	26-Dec-2019
16	BOKARO'B'	DVC	3	210	Problem in ash pond	12-Sep-2019
17	BARAUNI TPS	BSPHCL	6	110	ELECTRICAL PROTECTION TRIP	25-Feb-2020
18	KOLAGHAT	WBSETCL	3	210	BOTTOM ASH PROBLEM	24-Nov-2019
19	KOLAGHAT	WBSETCL	4	210	FURNACE DRAFT VERY HIGH	17-Nov-2019

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

(ii) Hydro Generating units:

S.No	Station	Agency	Unit No	Capacity(MW)	Reason(s)	Outage (Date)
1	BURLA HPS/HIRAKUD I	OPTCL	5	37.5	R & M WORK	25-Oct-2016
2	BURLA HPS/HIRAKUD I	OPTCL	6	37.5	R & M WORK	16-Oct-2015
3	BURLA HPS/HIRAKUD I	OPTCL	1	49.5	R & M WORK	14-Mar-2018
4	BURLA HPS/HIRAKUD I	OPTCL	7	37.5	ANNUAL MAINTENANCE	06-Dec-2019
5	BALIMELA HPS	OHPC	3	60	Annual Maintenance	02-Mar-2020
6	BALIMELA HPS	OHPC	1	60	R & M WORK	05-Aug-2016
7	BALIMELA HPS	OHPC	2	60	R & M WORK	20-Nov-2017
8	BALIMELA HPS	OHPC	4	60	Sparking in PMG	02-Mar-2020
9	U.KOLAB	OHPC	3	80	GUIDE BEARING TEMPERATURE HIGH	07-Jan-2020

It is seen that about 482 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

Transmission Element / ICT	Agency	Outage From	Reasons for Outage
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1	220 KV BALIMELA - U' SILERU	OPTCL / APSEB	10-03-2018	LINE ANTITHEFT CHARGED FROM UPPER SILERU END TO DEAD END TOWER OF BALIMELA AT 22:23 HRS ON 17.02.2020.
2	400 KV IBEUL JHARSUGUDA D/C	IBEUL	29-04-2018	TOWER COLLAPSE AT LOC 44,45
3	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.
4	132 KV KhSTPP-KAHALGAON(BSPTCL)	BSPHCL	13-02-2020	RE-CONDUCTORING WORK BY BSPTCL
5	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. 400KV BARH -GORAKHPUR 2 CHARGED AT 10:06 HRS ON 31.01.20 AS INTERIM ARRANGEMENT BYPASSING LILO PORTION OF MOTIHARI. 400KV BARH -GORAKHPUR 1 CHARGED AT 18:57 HRS ON 05.02.20 AS INTERIM ARRANGEMENT BYPASSING LILO PORTION OF MOTIHARI.
6	400 KV MOTIHARI(DMTCL)-GORAKHPUR-II	POWERGRID/ DMTCL	13-08-2019	
7	400 KV BARH-MOTIHARI(DMTCL) -I	POWERGRID/ DMTCL	04-09-2019	TOWER COLLAPSE AT LOCATION 26/0 AND 25/5. 400KV BARH -GORAKHPUR 2 CHARGED AT 10:06 HRS ON 31.01.20 AS INTERIM ARRANGEMENT BYPASSING LILO PORTION OF MOTIHARI. 400KV BARH -GORAKHPUR 1 CHARGED AT 18:57 HRS ON 05.02.20 AS INTERIM ARRANGEMENT BYPASSING LILO PORTION OF MOTIHARI.
8	400 KV BARH-MOTIHARI(DMTCL) -II	POWERGRID/ DMTCL	04-09-2019	
9	400 KV BINAGURI-RANGPO-1	POWERGRID	01-11-2019	S/D AVAILED FOR RECONDUCTORING WORK TILL 31/03/2020
10	400 KV BINAGURI-RANGPO-2	POWERGRID	01-11-2019	S/D AVAILED FOR RECONDUCTORING WORK TILL 31/03/2020
11	400 KV TALA - BINAGURI -I	POWERGRID/ BHUTAN	06-02-2020	B-phase CB oil pressure High at Tala end and maintenance upto 18.03.2020
12	400 KV TALA - BINAGURI -II	POWERGRID/ BHUTAN	16-01-2020	Planned Maintenance work
13	400 KV PATNA BARH 2	POWERGRID	29-02-2020	VOLTAGE REGULATION AT PATNA
14	220KV-CHUKHA-BIRPARA-1	POWERGRID	01-03-2020	OPENED ON OVER VOLTAGE AT CHUKHA
16	765KV-JHARSUGUDA-ANGUL-3	POWERGRID	06-03-2020	VOLTAGE REGULATION AT JHARSUGUDA

17	220KV-BUDHIPADAR-KORBA-3	POWERGRID	01-03-2020	CONTINUOUS S/D up to 10/03/20
18	400 BARH GORAKHPUR 2	POWERGRID	07-03-2020	FOR THE STRINGING AT GANDAK RIVER OF THE LILO SECTION ON ERS TOWERS
19	765 KV JHARSUGUDA-RAIPUR II	POWERGRID	08-03-2020	VOLTAGE REGULATION AT JHARSUGUDA
20	400 KV BINAGURI-ALIPURDUAR-4	POWERGRID	09-03-2020	VOLTAGE REGULATION AT BINAGURI
21	400 KV PATNA BARH 1	POWERGRID	09-03-2020	VOLTAGE REGULATION AT PATNA

(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 February -2020 based on the inputs received from beneficiaries

SL NO	Element Name	Owner	Charging Date	Charging Time	Remarks
1	400kV Talcher Meeramundali 2	PGCIL	01-02-2020	20:36	Talcher to meeramundali 2 bypassing lilo at

					Angul
2	400/132kv, 200MVA ICT-2 at Kahalgaon	NTPC	10-02-2020	13:19	
3	63 MVAR Fixed Line Reactor of 400 kV N Prn – K'Ganj # I	PGCIL	15-02-2020	21:32	Converted from Non-Switchable to switchable L/R
4	400 KV Meramundali-Mendhasal II	OPTCL	29-02-2020	14:32	
5	132/33 KV 50MVA Tr#1 at Birpara 132 kv	WBSETC L	08-02-2020	18:50:00	
6	132 KV Gajole-Samsi ckt #1	WBSETC L	14-02-2020	14:48	R.L: 25.369 Km ACSR Panther
	133 KV Gajole-Samsi ckt #2	WBSETC L	15-02-2020	15:22	R.L: 25.369 Km ACSR Panther
7	132 KV Gajole-Raiganj #1	WBSETC L	15-02-2020	19:11	R.L: 57.20 KM ACSR Panther
8	132 KV Pass Bay for 132 KV Sonarpur-Behala#2 at Sonarpur	WBSETC L	22-02-2020	02:42	
9	132kv Sonarpur- Behala#2	WBSETC L	28.02.2020	10:42	LILoing of Kasba-Behala line
10	132/33 KV 50 MVA TR#1 at Jangipara 132 KV	WBSETC L	19-12-2019	16:30	
11	132 KV Saltlake AIS- Saltlake Stadium GIS	WBSETC L	07-02-2020	17:24	(R.L.: 4.7Km) XLPE U.G. Cable
12	132/33 Kv 80 MVA TR#1 Saltlake Stadium GIS	WBSETC L	07-02-2020	18:15	
13	132/33 Kv 80 MVA TR#2 Saltlake Stadium GIS	WBSETC L	07-02-2020	18:35	
14	132 kV Chandaka B - Mancheswar B feeder	OPTCL	26-02-2020	19:42	
15	2 x 40 MVA 132/33 kV Power Transformers ay GIS, Mancheswar-B.	OPTCL	28-02-2020	21:50	
16	220 kV Mendhasal- Bidanasi ckt - II	OPTCL	11-02-2020	20:32	
17	160 MVA, 220/132 kV Auto Transformer -I II at Grid S/S Bolangir(New)	OPTCL	02-02-2020	14:07	
18	220 kV Balimela- Malkanagiri ckt - II	OPTCL	01-02-2020	16:16	

Item No. E.4: UFR operation during the month of February 2020

System frequency touched a maximum of 50.33 Hz at 18:03 hrs of 21/02/2020 and a minimum of 49.68 Hz at 06:13 hrs of 04/02/2020. Hence, no report of operation of UFR has been received from any of the constituents

Meeting ended with vote of thanks to the chair

Participants in 167th OPERATION COORDINATION SUB-COMMITTEE (OCC) Meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 10:30 hrs

Date: 16.03.2020 (Monday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
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20	P. N. Sarkar	SE	9830027523		

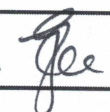


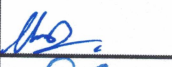
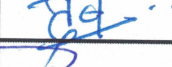





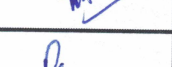

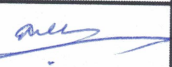


"Coming together is a beginning, staying together is progress, and working together is success." -Henry Ford

Participants in 167th OPERATION COORDINATION SUB-COMMITTEE (OCC) Meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 10:30 hrs

Date: 16.03.2020 (Monday)

Sl No	Name	Designation / Organization	Contact Number	Email	Signature
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Eastern Regional Power Committee, Kolkata

Annexure B14

Minutes of Special Meeting on “Shutdown of 220 kV Bus at 400/220/132kV Rangpo Substation” held at ERPC, Kolkata on 26th February 2020 (Wednesday) at 15:00 hrs

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

It was informed that Shutdown of 220 kV Bus at 400/220/132kV Rangpo Substation was discussed in Shutdown Meeting held on 17.02.2020 and also discussed in 166th OCC Meeting held on 20.02.2020, wherein Madhya Bharat Power Corporation Limited intimated that they need shutdown of both 220kV Bus at 400/220/132kV Rangpo Substation for completing the testing and commissioning activities of their 220kV bays. ERLDC informed that, the generation of Tashiding and Jorethang HEP would be affected during both 220kV Bus shutdown. Representatives from Shiga Energy were not available in both the meetings for discussion.

After deliberation, OCC decided to discuss the issue in a separate meeting with Madhya Bharat Power Corporation Limited, Shiga Energy, Powergrid ER-II, and ERLDC.

In line with OCC decision, this meeting has been convened.

The following deliberations were held in the meeting:

1. In the meeting it was opined that the water availability in Sikkim would increase from April 2020 and no shutdown can be allowed from April 2020 onwards in view of full generation by the hydro generators in Sikkim.
2. Members in the meeting advised Madhya Bharat Power Corporation Limited to complete all the relevant works by 20th March 2020.
3. Madhya Bharat Power Corporation Limited informed that they need both 220kV bus shutdown at Rangpo (PG) from 08:00 hrs to 17:00 hrs during 12th March 2020 to 18th March 2020.
4. Shiga Energy informed that Jorethang HEP generation is dependent on Rangit HEP generation and Thasiding HEP is having 4 hr storage capacity. In view of this, Shiga Energy requested to consider the both bus shutdown in four- and half-hour slot and requested to return one bus at least for one hour so that Thasiding HEP could generate without wasting the water.
5. Madhya Bharat Power Corporation Limited informed that it is not possible to carry out the work in slots and they need at least nine hours shutdown in one stretch.
6. Powergrid informed that returning one bus in between the HV, PD test and while fixing the conductor could not be viable in view of safety issues.
7. ERLDC informed that they need confirmation on availability of the elements before two hours from the actual commencement of generation schedule of Jorethang HEP & Tashiding HEP, as any curtailment of scheduled power sold at Power Exchange needs two-hour prior intimation to Power Exchange for doing so. Otherwise the generator has to bear the DSM charges for not generating according to its schedule.
8. Madhya Bharat Power Corporation Limited requested to allow the shutdown of both the buses for at least nine hours in one stretch so that they could complete the work as per the schedule. They added that they would put all efforts to complete the work before the scheduled date.

After detailed deliberation, members decided to allow both 220kV bus shutdown from 09:30 hrs to 18:00 hrs during 12th March 2020 to 18th March 2020.

Particioants in Meeting on Shutdown of 220 kV Bus at 400/210/133 kV Ranggo Substation

Venue: ERPC Conference Hall, Kolkata

Time: 15:00 hrs

Date: 26.02.2020(Wednesday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
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			7549006650		
9	RAMESH KUNNATH	MANAGER MBPCL	9995670245	rkunnath@seml.co.in	
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ERPC :: KOLKATA

Annexure B15

Minutes of Special Meeting on “Shutdown of 400 kV D/C Nabinagar-Sasaram Line” held on 12.03.2020 at ERPC, Kolkata

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

Member Secretary, ERPC chaired the meeting. He welcomed participants from Powergrid, BRBCL, BSPTCL, Eastern Central Railway, ERLDC & ERPC in the meeting. He explained that the issue was discussed in special meeting held on 02.08.2019 wherein Powergrid was advised to explore temporary connection of BRBCL power station with nearby 400kV transmission lines (i.e. 400kV Daltanganj-Sasaram D/C line or 400kV NPGC-Patna D/C line) using ERS during repair works of the defective tower of 400kV BRBCL-Sasaram D/C line. So that evacuation path would be available for Nabinagar generation plant during the shutdown period of 400kV D/C Nabinagar-Sasaram Line. Powergrid agreed to explore the possibility for the same. In 166th OCC Meeting held on 20th February 2020, Powergrid had requested for shutdown of 400kV D/C Nabinagar-Sasaram Line to replace the bend bracing by de-stringing of conductor and after that replacement of leg with support of derrick / hydra with proper guying arrangements. OCC decided to discuss the issue in separate meeting with the concerned utilities i.e. Eastern Railway, Bihar, BRBCL, Powergrid, ERLDC and ERPC.

In line with the OCC decision this meeting has been convened. The following deliberations were held in the meeting:

- Powergrid informed that they made arrangement to connect one circuit of 400kV D/C Nabinagar-Sasaram Line to one circuit of 400kV Daltanganj-Sasaram D/C line using ERS with single Moose Conductor. The new line would be 400kV Nabinagar-Sasaram S/C line (part of 400kV Daltanganj-Sasaram line). Powergrid informed that simultaneous shutdown of both lines of 400kV D/C Nabinagar-Sasaram Line is not required till restoration of 400kV Nabinagar-Sasaram S/C line (part of 400kV Daltanganj-Sasaram line) on ERS.
- Powergrid requested for three days shutdown of one circuit of 400kV D/C Nabinagar-Sasaram Line to complete the connectivity with one circuit of 400kV Daltanganj-Sasaram D/C line using ERS. Fifteen days shutdown for other circuit of 400kV D/C Nabinagar-Sasaram Line for carrying out the tower rectification work. Powergrid added that man and material is ready at site and requested to allow the shutdown at the earliest.
- POWERGRID also informed that as the ERS has been deployed as per the decision taken in special meeting held on 02.08.2019 to avail the shutdown of 400kV Nabinagar-Sasaram D/C line without affecting the generation of BRBCL, Nabinagar for rectification of bent tower caused due to heavy storm.

- BRBCL informed that they are taking Unit #3 under shutdown for overhauling from 8th April 2020 for around 40 days. BRBCL requested to take the line shutdown from 8th April 2020.
- ERPC and ERLDC advised BRBCL to prepone the overhauling of Unit #3 so that 400kV D/C Nabinagar-Sasaram Line could be allowed at the earliest.
- BRBCL informed that they had already interacted with BHEL and BHEL Engineers are not ready to prepone the overhauling of the unit.
- POWERGRID raised the concerned over criticality of bent tower and stated that they would not be responsible in case of the tower collapse due to non-availability of shutdown.
- BRBCL informed that 400kV NPGC-BRBCL line (about 10 km) was not yet completed by NPGC.
- It was opined that as a long term plan, the construction of 400kV NPGC-BRBCL line (10 km) is to be expedited for evacuation of power to BRBCL.
- BRBCL was also advised to plan for dedicated low voltage supply from state for meeting the emergency supply at the station.
- ERLDC suggested that to avoid situation like this in future, if there are two circuits planned for the evacuation of power from a generating station then separate single circuit towers should be planned instead of one double circuit tower.

After detailed deliberation, the following decisions were taken in the meeting:

- The shutdown of 400kV D/C Nabinagar-Sasaram Line shall be allowed from 8th April 2020.
- Powergrid shall use twin moose or HTLS conductor in the 400kV Nabinagar-Sasaram S/C line (part of 400kV Daltanganj-Sasaram line) on ERS so that 470 MW could flow on sustained basis to evacuate other units generation of BRBCL.
- BRBCL shall restrict their generation to 470 MW during the shutdown period of 400kV D/C Nabinagar-Sasaram Line.
- Tower rectification work of 400kV D/C Nabinagar-Sasaram Line shall be started after two days on completion of 400kV Nabinagar-Sasaram S/C line (part of 400kV Daltanganj-Sasaram line) on ERS to ensure the stability of the line restored using ERS.

Meeting ended with vote of thanks to the chair.

Participants in Special Meeting on Shutdown of 400 kV Nabinagar-Sasaram D/C Line

Venue: EhPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 12.03.2020

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
1	1. Bandyopadhyay	Member Secreta ERPC	9432326351	mserpc-power@gov.in	
3	p. r. va	y», eez-sc	qqias<#!t>-<}	gy.ag;j«J«t/jos<..iy)/£(2)r	
3	A. Malik	CGM, ERL	9436302720	amrisha.malik@power.in	
4	c. «=•«••	w-awr, «c«a	eez«zzA:z7c	r•=i°+•••,+»••=• x-	
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7	B.B. Ghosh	CM / ERPC	9432351830	bibhu@power.in	
8	D. Majumdar	Manager/ERL	9903593500	debajyoti.majumdar@power.in	
9	T / Ari-qA«	c•1 j oe«'c	qv«°«i*»-s	*1“” , _ ' j ,	,Y
10	S. N. Sarkar	SE	9830027523		
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18	S -= 4•4t.	At• s4ccL	1xpg6i•r»	><re•sx•x/{••e•••<•	6
19	S.K. Sharma	AGM(ES) ERPC NTPC	9471008359	sksharma06@ntpc.co.in	
20	RAJDEEP BHATTACHARJEE	BSPHCL	18u*ec(e)	7e6<r•,ra* /*	
21	S. K. JINJA	ERPC			

'gpm in together is a beginning, Staying together is progress, and working together is success.' —Henry Ford

Table 1: Unit Where PSS tuning Completed during last Four years (2016-2020)

Power Plant	Unit No	PSS tuned (Yes/No)	PSS in Service (Yes/No)	Last PSS Tuning Date
Kolaghat-WBPDCL	4-5	Yes	Yes	2019
Sagardighi-WBPDCL	3-4	Yes	Yes	2019
Santhaldih-WBPDCL	5-6	Yes	Yes	2019
Bandel-WBPDCL	5	Yes	Yes	2019
Bakreshwar-WBPDCL	1-5	Yes	Yes	2019
Budge Budge-CESC	3	Yes	Yes	2019
Durgapur-DVC	1-2	Yes	Yes	2019
Koderma-DVC	2	Yes	Yes	2019
Kahalgaon NTPC	1	Yes	Yes	2017
Kahalgaon NTPC	2-3	Yes	Yes	2016
BRBCL	2	Yes	Yes	2019
Teesta-III	1-6	Yes	Yes	2019
Tashiding	1-2	Yes	Yes	2017
Dikchu	1-2	yes	yes	2017
Maithon Power Limited	1	Yes	Yes	2019
Maithon Power Limited	2	Yes	Yes	2017
JITPL	1-2	Yes	Yes	2016
Tenughat	1-2	Yes	Yes	2017
Adhunik	2	Attempted	Yes	2019
HEL	1-2	Yes	Yes	2020
NPGC	1	Yes	Yes	2019
Mejia, DVC	5,6,7,8	Yes	Yes	2020
CTPS, DVC	7-8	Yes	Yes	2020

(*Total 36 units PSS has been tuned, among these few Units may require re-tuning due to network changes and has been intimated)

Annexure-C4.2

Table 2 : Units Where PSS tuning is carried out prior to 2016 or No

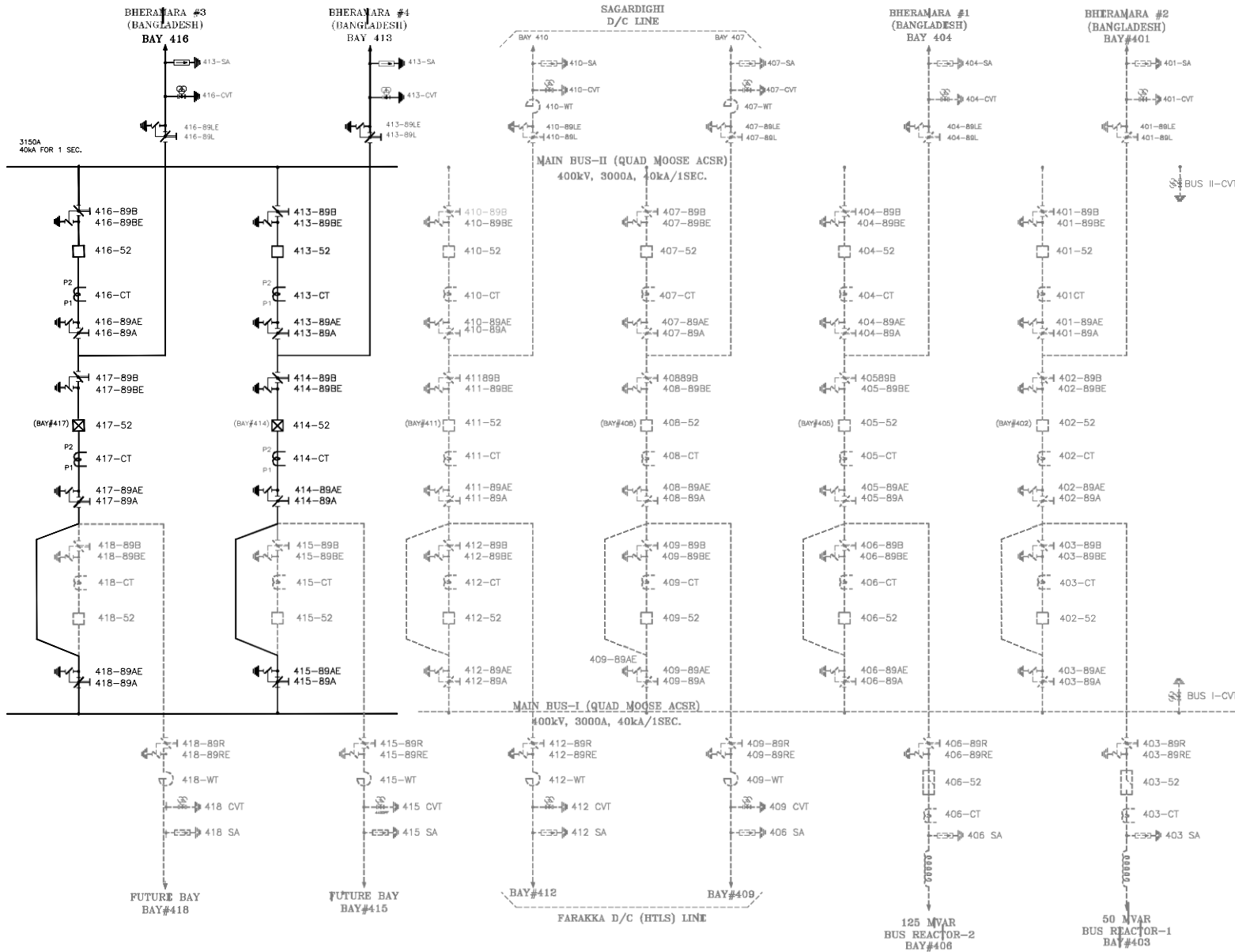
Information on Tuning has been shared.

Power Plant	Unit No	Utility	Remarks from Utility on Tuning
DPL	7-8	WBPDCCL (After takeover)	No Details
PPSP	1-4	WBSEDCL	No Details
TLDP III	1-4	WBSEDCL	No Details
TLDP IV	1-4	WBSEDCL	No Details
Budge Budge	1-2	CESC	No Details
Kahalgaon	4-7	NTPC	No Details
Farakka	1-6	NTPC	No Details
Talcher Stage 1	1-2	NTPC	No Details
Talcher Stage 2	3-6	NTPC	No Details
NPGC	1-1	NTPC	No Details
BRBCL	1-3	NTPC	No Details
KBUNL	1-4	NTPC	No Details
Rangit	1-3	NHPC	No Details
GMR	1-3	GMR	Dec 2020 (Overhauling)
IB TPS	1-4	OPGC	No Details
Upper Indravati	1-4	OHPC	No Details
Balimela	1-8	OHPC	No Details
Upper Kolab	1-4	OHPC	No Details
Rengali	1-5	OHPC	No Details
Sterlite	1-4	Sterlite	No Details
Subarnrekha	1-2	JUUNL	No Details
Tala, Chukha Mangdechhu	All Units	BPC	No Details
Chujachen	1-2	IPP	Planned In Feb 2020
Teesta 5	1-3	NHPC	Planned In March 2020
Waria	4-1	DVC	Planned in April 2020
Mejia	4-8	DVC	Planned in December 2019
Chandrapura B	1-2	DVC	Planned in December 2019
Raghunathpur	1-2	DVC	Planned in Feb 2021 for Unit 1 and June 2021 for Unit 2
Jorethang	1-2	IPP	Planned In Jan 2020
Bokaro	A1,B	DVC	Planned in Jun 2020
Koderma	1-1	DVC	Planned in May 2020
Barh	4-5	NTPC	Planned in Nov 2019
Sagardighi	1-2	WBPDCCL	PSS tuning Order Placed for one Unit
Kolaghat	1-3	WBPDCCL	PSS tuning planned with DAVR Upgrade (Order placed)

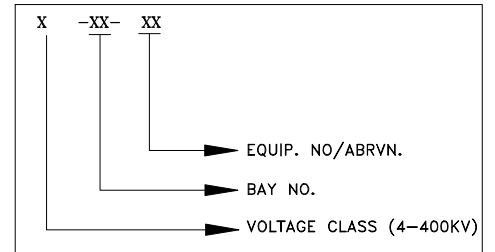
Adhunik	1-2	APNRL	Unit 1 in Next AOH , Unit 2 in Dec 2019
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(*Units need to submit their PSS tuning plan inline with IEGC and CEA standard Regulations to ERLDC/ERPC

Annexure – D2.1



NOMENCLATURE



SYSTEM PARAMETERS (400KV):-

SR.NO.	DESCRIPTION	400KV
1.	NORMAL SYSTEM VOLTAGE	400KV (rms)
2.	MAXIMUM SYSTEM VOLTAGE	400KV (rms)
3.	SWITCHING PULSE VOLTAGE AND VOLTAGE (1.2/50 micro sec)	1550 kV 1425 kV (For EHV)
4.	SWITCHING PULSE VOLTAGE STAND VOLTAGE (250/2500 microsec) dry & wet	1050 kV
5.	P.F. STAND VOLTAGE (DRY & WET) (rms)	630 kV (rms)
6.	FAULT LEVEL FOR 1 SEC.	400A for 1 Sec.

LEGEND:-

SR.NO.	ITEM DESCRIPTION	SYMBOL	QTY. (Present Scope)
1	CIRCUIT BREAKER WITHOUT PIR, 3150A, 3-PH., 40kA FOR 1 SEC.		2
2	CIRCUIT BREAKER WITH PIR, 3150A, 3-PH., 40kA FOR 1 SEC.		2
3	ISOLATOR (DBR) WITH 1 EARTH SWITCH (3PH), 3150A, 40kA FOR 1 SEC.		12
4	CURRENT TRANSFORMER (1-PH) 3000A, 1200V EXTENDED CURRENT RATING, 40kA FOR 1 SEC.		12
5	CAPACITOR VOLTAGE TRANSFORMER (1PH) 4400PF 400KV/3/110V/3-110V/3-110V/3 0.53P- 0.53P- 0.2 50VA 50VA 50VA		6
6	SURGE ARRESTER (1PH) 336kV 20KA		6

LEGEND:-

—	PRESENT SCOPE
- - -	EXISTING/FUTURE SCOPE

REFERENCE DRAWING:-

TENDER SLD OF 400KV BHARAMPUR S/S EXTENSION UNDER SUBSTATION PKG-SS01 UNDER ERSS-XV (DRG. REF: C/ENG/ER/ERSS-XV/BHR/SLD/01, REV.0)

FOR APPROVAL

N.O.A. NO. (SUPPLY) :- CC-CS/783-ER2/TW-3707/3/06/NOA-1/7650 Dtd. 01.03.2018	
N.O.A. NO. (SERVICE) :- CC-CS/783-ER2/TW-3707/3/06/NOA-1/7651 Dtd. 01.03.2018	
CLIENT	Power Grid Corporation Of India Ltd.
CONTRACTOR	ASSOCIATED POWER STRUCTURES PVT. LTD.
PROJECT :- 400 KV BHARAMPUR (PGCL - INDIA) S/S EXTENSION	
TITLE :- SINGLE LINE DIAGRAM	
DRAWN: PURNIMACH	CHECKED: AS
APPROVED: AMR	DATE: 12.04.2018
SCALE: N.T.S	DRG. NO: A75-P42P-301-1W-3707/ERSS-001
NO. DATE	REVISIONS
1 12.04.2018	EQUIP. DISSEMINATION ACCORDING TO THE BAY
2 12.04.2018	FIRST ISSUE
3 12.04.2018	REVISIONS

NO.	DATE	REVISIONS
1	12.04.2018	EQUIP. DISSEMINATION ACCORDING TO THE BAY
2	12.04.2018	FIRST ISSUE
3	12.04.2018	REVISIONS

ERLDC, KOLKATA									
									Annexure D2.2
TRANSMISSION ELEMENTS OUTAGE APPROVED IN 167th OCC MEETING OF ERPC									
		FROM		TO					
SI	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S.D availed BY	Reason	SUBJECT TO CONSENT FROM AGENCY
1	400 KV BIHARSHARIF-BALIA-I	01-04-2020	09:00	01-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of flashover insulator at loc no 424(Middle ph)/Transposition tower	NLDC
2	A/R OF 400 KV BIHARSHARIF-BALIA-II	01-04-2020	10:00	01-04-2020	19:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	NLDC
3	132 kV Ara Jagdishpur ckt 2	01-04-2020	09:00	01-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of CVT at Ara	BSEB
4	400KV switchable L/R of New Purnia 2 at BiharSharif	01-04-2020	10:00	01-04-2020	18:00	ODB	POWERGRID ER-I	AMP Work	
5	400kv KISHANGANJ-RANGPO-S/C	01-04-2020	08:30	01-04-2020	18:00	ODB	POWERGRID ER-I	Annual maintenance of Reactor & Testing (safety pupose)	AFTER REVIVAL OF 400KV BINAGURI-RANGPO D/C
6	765KV SASARAM-Fatehpur Line	01-04-2020	09:00	05-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of porcelain insulators on road/rail crossing by polymer insulator of 24 location	NLDC
7	400KV 63MVAR SWITCHABLE L/R OF Allahabad AT SASARAM	01-04-2020	09:00	04-04-2020	18:00	OCB	POWERGRID ER-I	Overhauling of CWL29Q50-Y phase Pole	NLDC
8	400KV Maithon - Gaya-I	01-04-2020	08:00	03-04-2020	18:00	ODB	POWERGRID ER-I	For changing porcelain insulator by polymer insulator.	
9	A/R OF 400KV Maithon - Gaya-II	01-04-2020	08:00	03-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
10	A/R OF 400 KV BIHARSHARIF-BANKA-II	01-04-2020	07:00	30-04-2020	18:00	ODB	POWERGRID ER-I	OPGW STRINGING WORK	
11	A/R OF 400 KV BIHARSHARIF-KODERMA-II	01-04-2020	07:00	30-04-2020	18:00	ODB	POWERGRID ER-I	OPGW STRINGING WORK	DVC
12	A/R OF 400 KV RANCHI-MAITHON(RB)-II	01-04-2020	07:00	30-04-2020	18:00	ODB	POWERGRID ER-I	OPGW STRINGING WORK	
13	A/R OF 400 KV BARH-MOTIHARI-II(PRESENTLY LINE IS CHARGED AT 400KV BARH-GORAKHPUR-II)	01-04-2020	07:00	30-04-2020	18:00	ODB	POWERGRID ER-I	OPGW STRINGING WORK	NLDC
14	A/R OF 400 KV MOTIHARI-GORKAHPUR-II (PRESENTLY LINE IS CHARGED AT 400KV BARH-GORAKHPUR-II)	01-04-2020	07:00	30-04-2020	18:00	ODB	POWERGRID ER-I	OPGW STRINGING WORK	NLDC
15	A/R OF 400 KV PATNA-KISANGANJ-II	01-04-2020	07:00	30-04-2020	18:00	ODB	POWERGRID ER-I	OPGW STRINGING WORK	
16	400 KV RANCHI-MAITHON(RB)-I	01-04-2020	09:00	01-04-2020	18:00	ODB	POWERGRID ER-I	For fixing of aviation globe in earth wire removed from CKT-II due to OPGW work.	AVAILABILITY OF MPL UNITS MAY BE CONSIDERED
17	400 KV RANCHI-MAITHON(RB)-II	01-04-2020	09:00	01-04-2020	18:00	ODB	POWERGRID ER-I	To facilitate the shutdown of above line.	AVAILABILITY OF MPL UNITS MAY BE CONSIDERED
18	400 KV Rengali - Talcher # 1 Line (Non-Auto)	01-04-2020	08:00	10-04-2020	17:00	ODB	ER-II/Odisha/Rengali	For PID Measurement	
19	400KV Main Bus-II at Baripada	01-04-2020	09:00	01-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	GIS Bus Duct and Bus isolator/earthswitch AMP works	GRIDCO
20	400KV Baripada-Kharagpur line	01-04-2020	09:00	15-04-2020	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
21	315MVA, ICT-2	01-04-2020	09:00	06-04-2020	18:00	OCB	ER-II/Odisha/Balangir	Internal inspection and Bushings lead connection checking due to rise in fault gases.	GRIDCO
22	315 MVA ICT#2 at Rourkela	01-04-2020	09:00	15-04-2020	18:00	OCB	ER-II/ODISHA/ROURKELA	Erection works related to Parallelling of ICTs	GRIDCO
23	A/R OF 400KV Sundargarh-Raigarh Ckt #2&4	01-04-2020	08:00	15-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	For PID Testing of Porcelain Insulator. Only Auto reclose	NLDC
24	400KV Sundargarh-Raigarh Ckt #1&3	01-04-2020	08:00	21-04-2020	18:00	OCB	ER-II/Odisha/Sundargarh	Tower erection and stringing on diversion part for OPGC MGR Railway	NLDC
25	A/R of 400 kV Baripada-Duburi Line	01-04-2020	07:00	30-04-2020	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)"	
26	A/R of 400 kV Dubur-Pandiabili Line	01-04-2020	07:00	30-04-2020	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)"	

27	A/R of 765 kV Angul-Srikakulam Ckt 1	01-04-2020	07:00	30-04-2020	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
28	A/R of 400 kV Angul-GMR Ckt 1	01-04-2020	07:00	30-04-2020	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	GRIDCO

29	A/R of 400 kV Angul-JITPL Ckt 1	01-04-2020	07:00	30-04-2020	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)"	
30	A/R of 400kV Angul-GMR Ckt 2	01-04-2020	07:00	10-04-2020	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)"	GRIDCO
31	A/R of 400 kV Angul-JITPL Ckt 2	01-04-2020	07:00	10-04-2020	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)"	
32	400kV Binaguri Bongaigaon#1	01-04-2020	09:00	02-04-2020	17:00	ODB	POWERGRID,ER-II	CT MB REPLACEMENT UNDER ERSS-XX PACAKGE.	NLDC
33	400KV BINAGURI-RANGPO-1 line	01-04-2020	09:00	30-04-2020	18:00	OCB	POWERGRID,ER-II	Rangpo Line#1 Reconductoring ERSS XX	May be allowed for 15days after 15th april may be reviewed
34	400KV BINAGURI-RANGPO-2 line	01-04-2020	09:00	30-04-2020	18:00	OCB	POWERGRID,ER-II	Rangpo Line#2 reconductoring ERSS XX	May be allowed for 15days after 15th april may be reviewed
35	400KV Durgapur-Maithon Line -1	01-04-2020	09:00	01-04-2020	17:00	ODB	POWERGRID, ER-II	Line Side Isolator Jumper replacement work	
36	400KV Maithon-Right Bank #II	01-04-2020	08:00	07-04-2020	18:00	OCB	POWERGRID, ER-II	Re conducting work ERSS-XVIII	AVAILABILITY OF MPL UNITS MAY BE CONSIDERED
37	400KV Maithon-Right Bank #I	01-04-2020	08:00	07-04-2020	18:00	OCB	POWERGRID, ER-II	To be kept in Non-Auto Mode during reconductoring of 400KV Maithon- RB# II line for safety measure	AVAILABILITY OF MPL UNITS MAY BE CONSIDERED
38	400KV Maithon - Mejia 3	01-04-2020	08:00	01-04-2020	18:00	ODB	POWERGRID, ER-II	Insulator Replacement work	DVC
39	400kV Bus-IV at Maithon	01-04-2020	10:00	01-04-2020	18:00	ODB	POWERGRID, ER-II	Dismantling work of Bus isolator of 400kV RB-1 under ERSS-XVII project work	DVC
40	400/220KV 315 MVA ICT-5 at Malda	01-04-2020	08:00	05-04-2020	17:00	OCB	POWERGRID, ER-II	220 KV & 33 KV Bushing replacement.	WB
41	315MVA ICT#1 at POWERGRID Subhasgram SS	01-04-2020	09:00	01-04-2020	17:00	ODB	POWERGRID, ER-II	Retrofitting of REF Relay (From Static to Numeric Relay).	WB
42	A/R in non-auto mode in 400KV TeestaIII-Kishanganj-I	01-04-2020	07:00	30-04-2020	18:00	ODB	POWERGRID, ER-II	For OPGW installation Work	
43	A/R in non-auto mode in 400KV Malda-Farakka-II	01-04-2020	07:00	07-04-2020	18:00	ODB	POWERGRID, ER-II	For OPGW installation Work	
44	220 KV Birpara-Malbase (SC)	01-04-2020	08:00	20-04-2020	17:30	OCB	POWERGRID, ER-II	Diversion of location no. 55 to 58 of 220 KV Birpara-Malbase (SC)	NLDC
45	400KV Rangpo-Teesta-v Ckt-1	01-04-2020	09:00	01-04-2020	18:00	ODB	POWERGRID, ER-II	AMP Works	TEESTA-V
46	400KV Rangpo-Teesta-v Ckt-1	01-04-2020	08:00	14-04-2020	18:00	ODB	POWERGRID, ER-II	For Reconductring work of 400KV D/C Rangpo-Binaguri in Multicircuit Portion (M/C 8 - M/C 14-Rangpo Gantry).	TEESTA-V
47	400KV RANGPO-KISHANGANJ LINE	01-04-2020	08:00	15-04-2020	18:00	ODB	POWERGRID, ER-II	For stringing work of 400KV LOOP OUT IN Multicircuit Portion	MAY BE CONSIDERED AFTER RETURN OF 400KV BINAGURI-
48	132KV Rangpo GANGTOK -1	01-04-2020	09:00	04-04-2020	18:00	ODB	POWERGRID, ER-II	For Reconductring work of 400KV D/C Rangpo-Binaguri at Loc. LILO 6-7 Ckt-2	SIKKIM
49	132KV RANGIT - RANGPO	01-04-2020	11:00	08-04-2020	20:00	ODB	POWERGRID, ER-II	For Reconductring work of 400KV D/C Rangpo-Binaguri at Loc. LILO 5-7 Ckt-2	SIKKIM
50	400kv Tie bay of RKL -1 & 80 MVAR BUS REACTOR-I at Chaibasa	01-04-2020	09:30	01-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
51	400kv Barh 1 main bay (418) at Patna	01-04-2020	10:00	02-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
52	VSC-I BAY OF STATCOM	01-04-2020	09:00	01-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF VSC-I BAY	
53	765kV Srikakulam Ckt 2 Main Bay 726	01-04-2020	09:00	04-04-2020	18:00	OCB	ER-II/Odisha/Angul SS	Guide Valve Replacement	
54	703 Main bay of 765kV/400kV,1500MVA ICT-I	01-04-2020	09:00	04-04-2020	18:00	OCB	ER-II/Odisha/Sundergarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
55	709 Main Bay of 765KV Raipur ckt-2	01-04-2020	09:00	01-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	AMP	
56	765 KV GAYA-VARANASI-II	02-04-2020	09:00	03-04-2020	18:00	ODB	POWERGRID ER-I	FOR STRENGTHENING OF 765 KV LINE WIND ZONE-II TOWERS	NLDC
57	400 KV BIHARSHARIF-BALIA-II	02-04-2020	09:00	02-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of flashover insulator at loc no 424(Top Phase)/Transposition tower	NLDC

58	A/R OF BIHARSHARIF-BALIA-I	02-04-2020	10:00	02-04-2020	19:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	NLDC
59	132 kV Ara-Ara (BSPTCL)	02-04-2020	09:00	02-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of LA at Ara	BSEB
60	400KV BIHARSHARIF-LAKHISARAI CKT-I	02-04-2020	08:00	03-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
61	A/R OF 400KV BIHARSHARIF-LAKHISARAI CKT-II	02-04-2020	08:00	03-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
62	220KV NewTown-Rajarhat(PG) Ckt-I	02-04-2020	07:00	02-04-2020	15:00	O.D.B.	WB	MAINTENANCE WORK	
63	63 MVAR DUBURI LINE REACTOR	02-04-2020	09:00	02-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	GRIDCO
64	A/R of 400 kV Pandiabili-Mendhasal Ckt 2	02-04-2020	07:00	10-04-2020	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)"	
65	400KV RBTPS-Ranchi I&II	02-04-2020	08:00	03-04-2020	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line	
66	400KV Maithon - Jamshedpur	02-04-2020	08:00	07-04-2020	18:00	ODB	POWERGRID, ER-II	Insulator Replacement work	
67	220KV/132KV ICT-II at Malda	02-04-2020	08:00	02-04-2020	17:00	ODB	POWERGRID, ER-II	AMP Work	WB
68	315MVA ICT#2 at POWERGRID Subhasgram SS	02-04-2020	09:00	02-04-2020	17:00	ODB	POWERGRID, ER-II	Retrofitting of REF Relay (From Static to Numeric Relay).	WB
69	400kv Main Bay of 400kV Malda-1 at New Purnea	02-04-2020	09:30	02-04-2020	18:00	ODB	POWERGRID ER-I	CB AMP WORK	
70	400kv Main bay of KGP-I AT CHAIBASA	02-04-2020	09:30	02-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
71	419 MAIN BAY STATCOM	02-04-2020	09:00	02-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF 419 BAY	
72	712 Main Bay of 765KV Raipur ckt-1	02-04-2020	09:00	02-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	AMP	
73	417 Bay (ICT-2 Tie Bay) at Durgapur	02-04-2020	09:30	02-04-2020	17:30	ODB	POWERGRID, ER-II	315 MVA ICT-2 shall remain in service through 418 Main Bay	
74	400 KV Patna-Ballia ckt-II	03-04-2020	09:00	03-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of porcelain insulators on road/rail crossing by polymer insulator of 05 location	NLDC
75	A/R OF 400 Kv Patna-Ballia -I	03-04-2020	10:00	03-04-2020	19:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	NLDC
76	132 kV Ara Jagdishpur ckt 1	03-04-2020	09:00	03-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of Insulator of isolators at Ara	BSEB
77	400KV 50MAVR B/R 1 at BiharSharif	03-04-2020	10:00	03-04-2020	18:00	ODB	POWERGRID ER-I	Relay Retrofitment	
78	400 kV Patna-Barh CKT3	03-04-2020	09:00	03-04-2020	17:30	ODB	POWERGRID ER-I	Porcelain to polymer insulator replacement at Loc LILO5, LILO 6, LILO8, LILO9,18,121,128,133,Multi Circuit 2,Multi Circuit12,Multi Circuit13,Multi Circuit14.	
79	A/R OF 400 kV Patna-Barh CKT 4	03-04-2020	09:00	03-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
80	220KV NewTown-Subhasgram (PG) Ckt	03-04-2020	07:00	03-04-2020	15:00	O.D.B.	WB	MAINTENANCE WORK	
81	400 KV Keonjhar Line	03-04-2020	08:00	03-04-2020	20:00	ODB	ER-II/Odisha/Rengali	For Relay Retrofitting	
82	400KV Sundargarh-Raigarh Ckt #2	03-04-2020	08:00	03-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	
83	709 LR of 765KV Raipur ckt-2	03-04-2020	09:00	03-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	AMP	
84	220KV ALIPURDUAR-WBSETCL-2	03-04-2020	09:00	03-04-2020	18:00	ODB	POWERGRID, ER-II	Bay AMP Work	WB
85	400KV Durgapur-Maithon Line -2	03-04-2020	09:00	03-04-2020	17:00	ODB	POWERGRID, ER-II	Line Side Isolator Tightening & Isolator alignment work	
86	315MVA ICT#3 at POWERGRID Subhasgram SS	03-04-2020	09:00	03-04-2020	17:00	ODB	POWERGRID, ER-II	Rectification of low oil level in prismatic guage	WB
87	A/R in non auto mode in 220KV Dalkhola-Kishanganj D/C TL	03-04-2020	07:00	10-04-2020	18:00	ODB	POWERGRID, ER-II	For diamonding arrangement for earthwire in 400KV Teesta3-Kishanganj TL in the section T-312/2 to T-312/3 with 220KV Dalkhola-Kishanganj D/C TL & 220KV Siliguri-Kishanganj D/C TL	
88	A/R in non auto mode in 220KV Siliguri-Kishanganj D/C TL	03-04-2020	07:00	10-04-2020	18:00	ODB	POWERGRID, ER-II	For diamonding arrangement for earthwire in 400KV Teesta3-Kishanganj TL in the section T-312/2 to T-312/3 with 220KV Dalkhola-Kishanganj D/C TL & 220KV Siliguri-Kishanganj D/C TL	
89	220kV DTSP-Bidhanagar Tie Ckt#1	03-04-2020	09:00	03-04-2020	15:00	ODB	GOMD-VI, Durgapur, DVC	Replacement/Repairing of damage "Y"-phase conductor between location no. 64 to Gantry of WBSETCL S/S	WB
90	400kV Main Bay of Gokarna at New Purnea	03-04-2020	09:30	03-04-2020	18:00	ODB	POWERGRID ER-I	CB AMP work	
91	400kvTie bay of KGP1 LINE & 125MVAR BUS REACTOR-2 AT CHAIBASA	03-04-2020	09:30	03-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
92	400kv Main Bay of STATCOM at New Ranchi	03-04-2020	09:00	03-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
93	400kv Barh 2 main bay (415) at Patna	03-04-2020	10:00	04-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
94	VSC-II BAY OF STATCOM	03-04-2020	09:00	03-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF VSC-II BAY	
95	400 KV 403 main bay of 315MVA ICT#1	03-04-2020	09:00	03-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	

96	765 KV GAYA-VARANASI-I	04-04-2020	09:00	15-04-2020	18:00	ODB	POWERGRID ER-I	FOR STRENGTHENING OF 765 KV LINE WIND ZONE-II TOWERS	NLDC
97	400KV BIHARSHARIF- LAKHISARAI CKT-II	04-04-2020	08:00	05-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
98	A/R OF 400KV BIHARSHARIF- LAKHISARAI CKT-I	04-04-2020	08:00	05-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
99	400KV Maithon - Gaya-II	04-04-2020	08:00	06-04-2020	18:00	ODB	POWERGRID ER-I	For changing porcelain insulator by polymer insulator.	
100	A/R OF 400KV Maithon - Gaya-I	04-04-2020	08:00	06-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
101	400 kV Patna-Barh CKT 4	04-04-2020	09:00	04-04-2020	17:30	ODB	POWERGRID ER-I	Insulator replacement at Loc LILO2, LILO3, LILO5, LILO 6, LILO7,65,,121,128,129,132,138,Multi Circuit 2,Multi Circuit13,Multi Circuit14.	
102	A/R OF 400 kV Patna-Barh CKT 3	04-04-2020	09:00	04-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
103	Jeerat: 400/220kv 315MVA TR#1	04-04-2020	07:00	04-04-2020	15:00	O.D.B.	WB	MAINTENANCE WORK	
104	400 KV Rourkela-SUNDARGARH#3 LINE	04-04-2020	10:00	04-04-2020	12:00	ODB	ER-II/ODISHA/ROURKELA	FOR TAKING THE LINE REACTOR OUT OF SERVICE FOR GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEAKAGES	
105	63 MVAR, 400 KV SUNDARGARH#3 LINE REACTOR	04-04-2020	10:00	20-04-2020	18:00	OCB	ER-II/ODISHA/ROURKELA	GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEAKAGES	
106	400KV Sundargarh-Raigarh Ckt #4	04-04-2020	08:00	04-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	NLDC
107	712 LR of 765KV Raipur ckt-1	04-04-2020	09:00	04-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	AMP	NLDC
108	400KV Maithon-Kahalgaon I&II	04-04-2020	08:00	05-04-2020	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line	
109	315MVA ICT#4 at POWERGRID Subhasgram SS	04-04-2020	09:00	04-04-2020	17:00	ODB	POWERGRID, ER-II	Rectification of low oil level in prismatic guage	WB
110	400KV Main Bay 400/220KV 500MVA ICT 3 at Biharsharif	04-04-2020	11:00	05-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
111	MSR-I BAY OF STATCOM	04-04-2020	09:00	04-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF MSR-I BAY	
112	40552- Tie Bay of Kharagpur line & 315MVA ICT II	04-04-2020	09:00	04-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
113	400 kV Patna-Barh CKT3	05-04-2020	09:00	05-04-2020	17:30	ODB	POWERGRID ER-I	Insulator replacement at Loc LILO5, LILO 6, LILO8, LILO9,18,121,128,133,Multi Circuit 2,Multi Circuit12,Multi Circuit13,Multi Circuit14.	
114	A/R OF 400 kV Patna-Barh CKT 4	05-04-2020	09:00	05-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
115	800KV BNC-AGRA-LINE-I & II	05-04-2020	09:00	25-04-2020	18:00	OCB	POWERGRID ER-I	PERMANENT SHIFTING OF LINE BY CASTING 02 FOUNDATIONS, ERECTION AND STRINGING WORK TO BYPASS THE VULNERBALE LOCATION 1619, 1618 WHOSE LEGS /MAIN BRACING HAVE BEEN CUT BY MISCREANTS. DATES TENTATIVE AND SHALL BE CONFIRMED BASED ON SITE CONDITION	NLDC
116	Jeerat: 400/220kv 315MVA TR#3	05-04-2020	07:00	05-04-2020	15:00	O.D.B.	WB	MAINTENANCE WORK	
117	132kv DTPS,Waria-Burdwan D/C of DVC	05-04-2020	07:00	05-04-2020	15:00	O.D.B.	WB	MAINTENANCE WORK	
118	400KV BINAGURI-Kishanganj-1	05-04-2020	10:00	05-04-2020	15:00	ODB	POWERGRID,ER-II	Replacement and retrofitting distance relay	
119	132KV Rangpo-GANGTOK -2	05-04-2020	10:00	08-04-2020	19:00	ODB	POWERGRID, ER-II	For Reconductring work of 400KV D/C Rangpo-Binaguri at Loc. LILO 5-6 Ckt-2	SIKKIM
120	400KV 63MVAR SWITCHABLE L/R OF Varanasi East Line Reactor Bay AT SASARAM	05-04-2020	09:00	08-04-2020	18:00	OCB	POWERGRID ER-I	Overhauling of CWL39Q50-Y phase Pole	
121	420 MAIN BAY STATCOM	05-04-2020	09:00	05-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF 420 BAY	
122	20352- 220KV Bus Coupler Bay	05-04-2020	09:00	05-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
123	706 Main Bay of 765/400KV,1500MVA ICT-I	05-04-2020	09:00	08-04-2020	18:00	OCB	ER-II/Odisha/Sundargarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
124	220KV Main Bus-1 at Purnea	06-04-2020	09:00	06-04-2020	17:00	ODB	POWERGRID ER-I	BUS CPUPLER, BUS-1 ISOLATER ALIGNMENT AND TRANFER BUS COUPLER , BUS- 1 EARTH SWITCH ALIGNMENT	BSEB
125	400KV BIHARSHARIF-BANKA CKT-I	06-04-2020	08:00	08-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
126	A/R OF 400KV BIHARSHARIF-BANKA CKT-II	06-04-2020	08:00	08-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	

127	400 KV SASARAM Allahabd S/C	06-04-2020	09:00	11-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings	NLDC
128	A/R OF 400 KV SASARAM -VARANASI-S/C	06-04-2020	09:00	11-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	NLDC
129	50 MVAR line reactor of Daltonganj Sasaram -I	06-04-2020	09:00	06-04-2020	17:30	ODB	POWERGRID ER-I	Line Reactor AMP work	
130	400KV DALTONGANJ-SASARAM CKT-I	06-04-2020	09:00	06-04-2020	09:15	ODB	POWERGRID ER-I	To facilitate the shutdown of the line reactor	
131	400KV DALTONGANJ-SASARAM CKT-I	06-04-2020	17:15	06-04-2020	17:30	ODB	POWERGRID ER-I	To facilitate the shutdown of the line reactor	
132	765 KV BUS-1 at New Ranchi	06-04-2020	08:00	07-04-2020	18:00	ODB	POWERGRID ER-I	BAY EXTENSION WORKS FOR MEDINIPUR BAY	NLDC
133	400/220kv 500MVA ICT2 at Patna	06-04-2020	10:00	06-04-2020	18:00	ODB	POWERGRID ER-I	Online DGA installation and commissioning work + BCU upgradation wiring	Khaugai load may be shifted to Arrah
134	400 kV Patna-Barh CKT 4	06-04-2020	09:00	06-04-2020	17:30	ODB	POWERGRID ER-I	Insulator replacement at Loc LILO2, LILO3, LILO5, LILO 6, LILO7,65,,121,128,129,132,138,Multi Circuit 2,Multi Circuit13,Multi Circuit14.	
135	A/R OF 400 kV Patna-Barh CKT 3	06-04-2020	09:00	06-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
136	Barh Patna Line # 1	06-04-2020	09:30	07-04-2020	18:00	OCB	BARH	For operation testing from SCADA & Auto Reclose relay testing & other testing and Annual maint of Bay equipments.	
137	220KV Jeerat-Rajarhat Ckt-I	06-04-2020	05:30	06-04-2020	13:00	O.D.B.	WB	MAINTENANCE WORK	
138	125 MVAR BUS REACTOR#2 (425R)	06-04-2020	09:00	06-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
139	765KV Raipur ckt-1 along with its LR	06-04-2020	09:00	06-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	Isolator allignment ,Relay Testing & AMP	NLDC
140	400KV BINAGURI-Kishanganj-1	06-04-2020	10:00	06-04-2020	15:00	ODB	POWERGRID,ER-II	Replacement and retrofitting of auto-reclose relay	
141	50 MVA ICT-I 132/66 KV at Gangtok	06-04-2020	09:00	06-04-2020	18:00	ODB	POWERGRID, ER-II	For Annual AMP Works	SIKKIM
142	400KV Maithon-Durgapur I&II	06-04-2020	08:00	07-04-2020	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line	
143	500 MVA ICT#5 at POWERGRID Subhasgram SS	06-04-2020	09:00	06-04-2020	17:00	ODB	POWERGRID, ER-II	Buchholz Canopy Installation	WB
144	400KV Rangpo-Teesta-v Ckt-2	06-04-2020	09:00	06-04-2020	18:00	ODB	POWERGRID, ER-II	AMP Works	TEESTA-V
145	400 KV Maithon-Durgapur Ckt-I	06-04-2020	08:00	11-04-2020	17:00	ODB	POWERGRID, ER-II	Ckt wise shut-down shall be taken on alternate day basis.Replacement of porcelain insulator with CLR at major crossing by Durgapur TLM	
146	400 KV Maithon-Durgapur Ckt-II	06-04-2020	08:00	11-04-2020	17:00	ODB	POWERGRID, ER-II	Ckt wise shut-down shall be taken on alternate day basis.Replacement of porcelain insulator with CLR at major crossing by Durgapur TLM	
147	765KV Main Bay of 765/400 kV 1500MVA ICT-IV at Gaya	06-04-2020	09:00	06-04-2020	18:00	ODB	POWERGRID ER-I	For AMP work	
148	400KV Main Bay Tenughat 1 , 416 Bay at Biharsharif	06-04-2020	10:00	06-04-2020	18:00	ODB	POWERGRID ER-I	AMP Work	
149	MSR-II BAY OF STATCOM	06-04-2020	09:00	06-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF MSR-II BAY	
150	41652-Future Line Bay GIS	06-04-2020	09:00	06-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
151	765kV Sundargarh Ckt 3 Tie Bay 722	06-04-2020	09:00	08-04-2020	18:00	OCB	ER-II/Odisha/Angul SS	Guide Valve Replacement	
152	721 Main Bay of 765KV Sundargarh-Dharamjaygarh ckt-1	06-04-2020	09:00	09-04-2020	18:00	OCB	ER-II/Odisha/Sundergarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
153	HVDC System at Sasaram	07-04-2020	09:00	10-04-2020	18:00	OCB	POWERGRID ER-I	Shifting of 315 MVA ICT spare under East side bus towards the designated storage location	NLDC
154	400 kV Chandwa - New Ranchi - I	07-04-2020	09:00	07-04-2020	17:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MISCREANTS	
155	A/R OF 400 KV CHANDWA-NEW RANCHI II	07-04-2020	09:00	07-04-2020	17:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
156	400kV Koderma - Bokaro-I	07-04-2020	08:00	12-04-2020	18:00	ODB	POWERGRID ER-I	For changing porcelain insulator by polymer insulator.	DVC
157	A/R OF 400kV Koderma - Bokaro-II	07-04-2020	08:00	12-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
158	400 kV Patna-Barh CKT3	07-04-2020	09:00	07-04-2020	17:30	ODB	POWERGRID ER-I	Insulator replacement at Loc LILO5, LILO 6, LILO8, LILO9,18,121,128,133,Multi Circuit 2,Multi Circuit12,Multi Circuit13,Multi Circuit14.	
159	A/R OF 400 kV Patna-Barh CKT 4	07-04-2020	09:00	07-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
160	220KV Jeerat-Rajarhat Ckt-II	07-04-2020	07:00	07-04-2020	15:00	O.D.B.	WB	MAINTENANCE WORK	
161	KTPP: 400kv bus tr CB	07-04-2020	07:00	08-04-2020	15:00	OCB	WB	MAINTENANCE WORK	
162	400 KV, 125 MVAR Bus Reactor # 1	07-04-2020	08:00	07-04-2020	18:00	ODB	ER-II/Odisha/Rengali	For AMP Work	
163	400KV Baripada-Duburi Line	07-04-2020	09:00	08-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Replacement of porcelain insulator into polymer insulator in Tr. line for NH crossing and power line crossing	GRIDCO
164	765kV Angul-Srikakulam Line-1	07-04-2020	07:00	08-04-2020	18:00	ODB	ER-II/Odisha/Nygg&Bmp TLAM	AMP Work	NLDC

165	400kV Angul-Meramundali S/C Line 1	07-04-2020	08:00	07-04-2020	18:00	ODB	ER-II/Odisha/Angul TL	Line shutdown defects maintenance work * As the LILO bypass arrangement completed 400kV Meramundali ckt 1 & Bolagir s/d required	NLDC
166	400 KV Rourkela-SUNDARGARH#3 LINE	07-04-2020	09:00	07-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	FOR DISMANTALING OF REACTOR BUSHINGS (SHUTDOWN BEING AVAILED AS CLEARANCE IS LESS)	
167	765KV Raipur ckt-2 along with its LR	07-04-2020	09:00	07-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	Isolator alignment ,Relay Testing & AMP	NLDC
168	400KV BINAGURI-Kishanganj-2	07-04-2020	10:00	07-04-2020	15:00	ODB	POWERGRID,ER-II	Replacement and retrofitting distance relay	
169	220KV BUS-1 at Durgapur	07-04-2020	09:00	07-04-2020	14:00	ODB	POWERGRID, ER-II	Pre-Monsoon Tightening work in Bus & line Jumper	DVC
170	400/220KV 315 MVA ICT-3 or ICT-5 at Malda	07-04-2020	08:00	07-06-2020	17:00	OCB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB
171	400KV Malda-Purnea-I Ckt	07-04-2020	08:00	07-04-2020	10:00	ODB	POWERGRID, ER-II	For taking CT Oil Sampling	
172	100 MVAR Bus Reactor at 400/220/132 KV WBSETCL Jeerat SS	07-04-2020	09:00	07-04-2020	17:00	ODB	POWERGRID, ER-II	AMP of 100 MVAR Bus Reactor	WB
173	400 KV Tala-Binaguri-II	07-04-2020	08:00	08-04-2020	17:30	ODB	POWERGRID, ER-II	Replacement of porcelain insulator with CLR at major crossing by Birpara TLM	NLDC
174	400kV RTPS-Ranchi Ckt#2	07-04-2020	08:30	07-04-2020	17:00	ODB	GOMD-IV, Putki, DVC	for Jumper checking work under GOMD-IV jurisdiction	
175	400kV Meramundali -Mendhasal Circuit - II	07-04-2020	08:00	10-04-2020	17:00	OCB	GRIDCO	Checking of jumper and insulator replacement of the line	
176	765kv Main Bay of VARANASI-II at Gaya	07-04-2020	09:00	07-04-2020	18:00	ODB	POWERGRID ER-I	For AMP work	
177	400KV TIE Bay of 500MVA ICT 3 and Bus reactor 2 411 Bay at Bihar sharif	07-04-2020	11:00	07-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
178	400kv TIE BAY OF BINAGURI-I AND II AT KISHANGANJ	07-04-2020	08:30	07-04-2020	18:00	ODB	POWERGRID ER-I	For BCU Replacement & AMP work.	
179	220 kV side of main Bay of 400/220kv 500MVA ICT-2 at New Purnea	07-04-2020	09:30	07-04-2020	18:00	ODB	POWERGRID ER-I	CB, CT AMP work	
180	ICT 2 Main Bay (409) at Patna	07-04-2020	10:00	07-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
181	MSC-I BAY OF STATCOM	07-04-2020	09:00	07-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF MSC-I BAY	
182	Jeypore Main Bay (401)	07-04-2020	09:00	07-04-2020	18:00	ODB	ER-II/Odisha/Indravati	AMP works of Jeypore Main Bay (401). No interruption for power flow	
183	220KV Main Bus-2 at Purnea	08-04-2020	09:00	08-04-2020	17:00	ODB	POWERGRID ER-I	TO RECTIFY 220KV PRN-NPRN LINE-1 BUS-2 ISOLATER HOTSPOT AND SAME LINE CHARGE THROUGH TBC DURING SHUTDOWN NO POWER INTERRUPTION LOAD WILL SHIFT ON BUS-1 AND PURNEA-NEW PURNEA LINE -1 CHARGE THROUGH TBC DURING SHUTDOWN	BSEB
184	400KV 125MVAR Bus Reactor 3 at Biharshariff	08-04-2020	10:00	08-04-2020	18:00	ODB	POWERGRID ER-I	AMP Work	
185	400 kV Chandwa - New Ranchi - II	08-04-2020	09:00	08-04-2020	17:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MISCREANTS	
186	A/R OF 400 KV CHANDWA-NEW RANCHI I	08-04-2020	09:00	08-04-2020	17:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
187	400/220KV 315 MVA ICT-1 at Ranchi	08-04-2020	09:30	08-04-2020	17:00	ODB	POWERGRID ER-I	RELAY RETROFITTING WORK ,LOAD WILL BE RESTRICTED TO 250 MW TO JUSNL THROUGH 315 MVA ICT-2 only.	JSEB
188	400 kV Patna-Barh CKT 4	08-04-2020	09:00	08-04-2020	17:30	ODB	POWERGRID ER-I	Insulator replacement at Loc LILO2, LILO3, LILO5, LILO 6, LILO7,65,,121,128,129,132,138,Multi Circuit 2,Multi Circuit13,Multi Circuit14.	
189	A/R OF 400 kV Patna-Barh CKT 3	08-04-2020	09:00	08-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
190	220KV Jeerat-Rajarhat Ckt-I	08-04-2020	07:00	08-04-2020	15:00	O.D.B.	WB	MAINTENANCE WORK	
191	220KV Main BUS-1	08-04-2020	09:00	08-04-2020	09:00	ODB	ER-II/Odisha/Balangir	AMP and Rectification of damaged conductor strand of 220KV main BUS-1	GRIDCO
192	400kV Angul-Meramundali D/C Line 2	08-04-2020	08:00	08-04-2020	18:00	ODB	ER-II/Odisha/Angul TL	Line shutdown defects maintenance work *As LILO bypass arrangement completed 400kV Meramundali ckt 2 & Talchar s/d required	GRIDCO
193	765kv/400KV , 1500MVA ICT-2	08-04-2020	09:00	08-04-2020	12:30	ODB	ER-II/Odisha/Sundergarh	To take B Ph in service in place of spare ICT after gasket replacement	NLDC
194	400KV BINAGURI-Kishanganj-2	08-04-2020	10:00	08-04-2020	15:00	ODB	POWERGRID,ER-II	Replacement and retrofitting of auto-reclose relay	
195	400KV Maithon-Right Bank #I	08-04-2020	08:00	22-04-2020	18:00	OCB	POWERGRID, ER-II	Re conductoring work ERSS-XVIIIB	AVAILABILITY OF MPL UNITS MAY BE CONSIDERED
196	400KV Maithon-Right Bank #II	08-04-2020	08:00	22-04-2020	18:00	OCB	POWERGRID, ER-II	To be kept in Non-Auto Mode during reconductoring of 400KV Maithon- RB# I line for safety measure	AVAILABILITY OF MPL UNITS MAY BE CONSIDERED

197	400KV Mejia - Jamshedpur	08-04-2020	08:00	13-04-2020	18:00	ODB	POWERGRID, ER-II	Insulator Replacement work	DVC
198	400kV RTPS-Ranchi Ckt#3	08-04-2020	08:30	08-04-2020	17:00	ODB	GOMD-IV, Putki, DVC	for Jumper checking work under GOMD-IV jurisdiction	
199	765kv Tie Bay of VARANASI-II and future at Gaya	08-04-2020	09:00	08-04-2020	18:00	ODB	POWERGRID ER-I	For AMP work	
200	ICT 2-Nabinagar2 Tie Bay (408) at Patna	08-04-2020	10:00	09-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
201	MSC-II BAY OF STATCOM	08-04-2020	09:00	08-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF MSC-II BAY	
202	400 KV LINE BAY OF CHAIBASA#1 (416L)	08-04-2020	09:00	08-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
203	430 Bay (Jamshedpur Ckt-1 Main Bay) at Durgapur	08-04-2020	09:30	08-04-2020	17:30	ODB	POWERGRID, ER-II	Jamshedpur Ckt-1 shall remain in service through 429 Tie Bay	
204	400KV BIHARSHARIF- BANKA CKT-II	09-04-2020	08:00	11-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
205	A/R OF 400KV BIHARSHARIF- BANKA CKT-I	09-04-2020	08:00	11-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
206	400kv KISHANGANJ-BINAGURI-I	09-04-2020	08:30	09-04-2020	18:00	ODB	POWERGRID ER-I	For BCU Replacement & AMP work.	
207	400 kV Chandwa -Gaya - I	09-04-2020	09:00	09-04-2020	17:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MISCREANTS	
208	A/R OF 400 KV CHANDWA-GAYA II	09-04-2020	09:00	09-04-2020	17:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
209	400/220 KV 500 MVA ICT-3 at MUZAFFARPUR	09-04-2020	09:30	10-04-2020	17:30	ODB	POWERGRID ER-I	RETROFITTING OF BACKUP IMPEDANCE RELAY.	BSEB
210	400 kV Patna-Barh CKT3	09-04-2020	09:00	09-04-2020	17:30	ODB	POWERGRID ER-I	Insulator replacement at Loc LILO5, LILO 6, LILO8, LILO9,18,121,128,133,Multi Circuit 2,Multi Circuit12,Multi Circuit13,Multi Circuit14.	
211	A/R OF 400 kV Patna-Barh CKT 4	09-04-2020	09:00	09-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
212	220KV Jeerat-Rajarahat Ckt-II	09-04-2020	07:00	09-04-2020	15:00	O.D.B.	WB	MAINTENANCE WORK	
213	3 X 166.7 MVA COUPLING TRANSFORMER	09-04-2020	08:00	10-04-2020	18:00	ODB	ER-II/Odisha /Jeypore	AMP OF COUPLING TRANSFORMER	
214	400 KV, 125 MVAR Bus Reactor # 2	09-04-2020	08:00	09-04-2020	18:00	ODB	ER-II/Odisha/Rengali	For AMP Work	
215	765kV Angul-Srikakulam Line-2	09-04-2020	07:00	10-04-2020	18:00	ODB	ER-II/Odisha/Nyg&Bmp TLAM	AMP Work	NLDC
216	400KV Maithon-Durgapur I&II	09-04-2020	08:00	10-04-2020	18:00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	
217	400kV Bus-2 at MPL	09-04-2020	11:00	09-04-2020	19:00	ODB	POWERGRID, ER-II	connection of jumper of Bus isolator of 406 bay	MPL
218	400KV Malda-Purnea-II Ckt	09-04-2020	08:00	09-04-2020	10:00	ODB	POWERGRID, ER-II	For taking CT Oil Sampling	
219	220KV WBSETCL SUBHASGRAM CKT#1	09-04-2020	09:00	09-04-2020	17:00	OCC	POWERGRID, ER-II	Rectification of alignment of Line Isolator due to abnormal sound	WB
220	400 KV Tala-Binaguri-III	09-04-2020	08:00	10-04-2020	17:30	ODB	POWERGRID, ER-II	Replacement of porcelain insulator with CLR at major crossing by Birpara TLM	NLDC
221	220 KV Bus-II at Birpara	09-04-2020	08:00	09-04-2020	17:30	ODB	POWERGRID, ER-II	Replacement of Bus-II to Isolator jumper along with connector in 220 KV Birpara-Chukha-II	
222	220 KV Bus Coupler at Birpara	09-04-2020	08:00	09-04-2020	17:30	ODB	POWERGRID, ER-II	Replacement of Bus-II to Isolator jumper along with connector in 220 KV Birpara-Chukha-II	
223	400KV FARAKKA-SAGARDIGHI-I	09-04-2020	09:00	10-04-2020	17:00	OCB	FARAKKA	CB AND RELAY TEST	
224	400KV TIE Bay of ICT 1 and Lakhisarai 1, 414 Bay at Bihar sharif	09-04-2020	11:00	09-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
225	400kV side of main Bay of 400/220kv 500MVA ICT-2 at New Purnea	09-04-2020	09:30	09-04-2020	18:00	ODB	POWERGRID ER-I	CB AMP work	
226	400KV 63MVAR SWITCHABLE L/R OF Bihar Sharif-2 Line Reactor Bay AT SASARAM	09-04-2020	09:00	12-04-2020	18:00	OCB	POWERGRID ER-I	Overhauling of CWL89Q50-Y phase Pole	
227	400 KV 407 main Bay of Baripada-Duburi line	09-04-2020	09:00	10-04-2020	17:30	OCB	ER-II/Odisha/BARIPADA S/S	Gasket replacement	
228	765kV Sundargarh Ckt 3 Main Bay 723	09-04-2020	09:00	13-04-2020	18:00	OCB	ER-II/Odisha/Angul SS	Guide Valve Replacement	
229	710 Main Bay of 765KV Sundargarh-Angul ckt-3	09-04-2020	09:00	12-04-2020	18:00	OCB	ER-II/Odisha/Sundargarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
230	415 Bay (Maithon Ckt-1 Main Bay) at Durgapur	09-04-2020	09:30	09-04-2020	17:30	ODB	POWERGRID, ER-II	400KV Maithon Ckt-1 shall remain in service through 414 Tie Bay	
231	Tie bay of 400kv Maithon-MPL Ckt#2/ST-1,(Bay no 405) at Maithon	09-04-2020	09:00	28-04-2020	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.	
232	220KV Purnea-Dalkhola-2	10-04-2020	09:00	10-04-2020	12:00	ODB	POWERGRID ER-I	Replacement of flashed insulator	
233	400 kV Chandwa -Gaya - II	10-04-2020	09:00	10-04-2020	17:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MISCREANTS	
234	A/R OF 400 KV CHANDWA-GAYA I	10-04-2020	09:00	10-04-2020	17:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	

235	400/132kv 315 MVA ICT -III at LAKHISARAI	10-04-2020	09:30	10-04-2020	17:30	ODB	POWERGRID ER-I	Final tuning of Main bay CSD	BSEB
236	50 MVAR line reactor of Daltonganj Sasaram -II	10-04-2020	09:00	10-04-2020	17:30	ODB	POWERGRID ER-I	Line Reactor AMP work	
237	400KV DALTONGANJ-SASARAM CKT-II	10-04-2020	09:00	10-04-2020	09:15	ODB	POWERGRID ER-I	To facilitate the shutdown of the line reactor	
238	400KV DALTONGANJ-SASARAM CKT-II	10-04-2020	17:15	10-04-2020	17:30	ODB	POWERGRID ER-I	To facilitate the shutdown of the line reactor	
239	400 kV Patna-Barh CKT 4	10-04-2020	09:00	10-04-2020	17:30	ODB	POWERGRID ER-I	Insulator replacement at Loc LILO2, LILO3, LILO5, LILO 6, LILO7,65,,121,128,129,132,138,Multi Circuit 2,Multi Circuit13,Multi Circuit14.	
240	A/R OF 400 kV Patna-Barh CKT 3	10-04-2020	09:00	10-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
241	400kv Jeerat-Rajarhat line	10-04-2020	07:00	18-04-2020	15:00	OCB	WB	MAINTENANCE WORK	
242	80MVAR BR-I at keonjhar	10-04-2020	09:00	10-04-2020	18:00	ODB	ER-II/Odisha/Keonjhar	CSD tuning & AMP WORKS. Shutdown shall be taken if not availed in Mar'2020	
243	400KV Balangir-Jeypore S/c line	10-04-2020	09:00	19-04-2020	18:00	OCB	ER-II/Odisha/Balangir	Dismantling of 2 nos. existing towers, installation of 3nos. New towers under existing line and stringing of 4 nos. span for line diversion work due to construction of new Balangir-Khurda Line under East Cost Railway at Balangir	NLDC
244	765kV Angul-Sundargarh Ckt 3	10-04-2020	09:00	11-04-2020	18:00	ODB	ER-II/Odisha/Angul SS	Isolator & Earth switch alignment and mechanical interlock adjustment	NLDC
245	400 KV Rourkela-SUNDARGARH#3 LINE	10-04-2020	09:00	10-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	FOR ERECTION OF REACTOR BUSHINGS (SHUTDOWN BEING AVAILED AS CLEARANCE IS LESS)	
246	765kv/400KV , 1500MVA ICT-1	10-04-2020	09:00	10-04-2020	12:30	ODB	ER-II/Odisha/Sundergarh	To make R Ph out of service to attend in oil leakage and spare ICT changeover in place of R Ph	NLDC
247	125MVAR BR- 2 at ALIPURDUAR	10-04-2020	09:00	10-04-2020	18:00	ODB	POWERGRID, ER-II	Bay AMP Work	
248	400KV Bus#1 at Binaguri substation (2occasions)	10-04-2020	09:00	12-04-2020	17:00	ODB	POWERGRID,ER-II	Busbar stability and GIS connection, Rangpo Bay upgradation work (Bus isolator dismantling / erection)- 2 occasions	NLDC
249	Main bay of 400kv Maithon-MPL Ckt#1,(Bay no 403) at Maithon	10-04-2020	09:00	25-04-2020	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.	
250	400kv Barh1-Balia-2 Tie bay (417) at Patna	10-04-2020	10:00	11-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
251	400kv Balia 1 main bay (413) at Patna	10-04-2020	10:00	11-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
252	400KV ICT#2 Main Bay (403) at OHPC S/Y	10-04-2020	09:00	10-04-2020	18:00	ODB	ER-II/Odisha/Indravati	AMP works of 400KV ICT#2 Main Bay (403) at OHPC S/Y. During this shutdown Power flow from ICT#2 will be Interrupted.	
253	220KV Future line-IV BAY (209 BAY)	10-04-2020	09:00	10-04-2020	18:00	ODB	ER-II/Odisha/Balangir	AMP for 209 52CB & 209 CT	
254	400 kv Mendhasal -Pandiabili-1 main bay at Mendhasal sub-station.	10-04-2020	09:00	10-04-2020	18:00	ODB	ER-II/Odisha/ Pandiabili GIS	DCRM of main bay.	
255	315MVA ICT#1 Main Bay (BAY NO 403) at Subhasgram	10-04-2020	09:00	10-04-2020	17:00	ODB	POWERGRID, ER-II	AMP of 403 Bay	
256	63 MVAr Bus Reactor	11-04-2020	09:00	28-04-2020	18:00	OCB	ER-II/Odisha /Jeypore	Overhauling of 63 MVAr Bus Reactor for attending the oil leakage.	
257	400 KV, 50 MVAR Indravati Line Reactor	11-04-2020	08:00	20-04-2020	18:00	OCB	ER-II/Odisha/Rengali	For NGR Overhauling and AMP Work For PID Measurement	
258	400 KV Rengali - Talcher # 2 Line(Non-Auto)	11-04-2020	08:00	20-04-2020	17:00	ODB	ER-II/Odisha/Rengali	REPLACEMENT OF DAMAGED INSULATOR BY MISCREANTS.	
259	400kV Jeerat-Sagardighi TL	11-04-2020	09:00	11-04-2020	17:00	ODB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	WB
260	400KV RBTPS-Ranchi I&II	11-04-2020	08:00	12-04-2020	18:00	OCB	POWERGRID, ER-II		

261	50 MVAR Sagardighi Line Reactor at POWERGRID Subhasgram SS	11-04-2020	09:00	11-04-2020	17:00	ODB	POWERGRID, ER-II	Retrofitting of REF Relay.	
262	220Kv Budhipadar-Korba S/C Line-3	11-04-2020	08:00	11-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	OPGC Railway diversion final checking/rectification	
263	400KV TIE Bay of Tenughat 1 and Lakhisarai 2, 417 Bay at Bihar sharif	11-04-2020	10:00	11-04-2020	18:00	ODB	POWERGRID ER-I	AMP Work and CB Compressor overhauling	
264	400KV Main Bay ICT -1 415 Bay at Biharsharif	11-04-2020	11:00	11-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
265	400kv Tie Bay of 400 kV LKR-KHG-2 & 80 MVAR BR at LAKHISARAI	11-04-2020	10:00	11-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
266	220kv Bus coupler bay at Daltanganj	11-04-2020	09:00	11-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
267	400 kV 408 Tie Bay of Baripada-Duburi & Baripada-Jamshedpur line	11-04-2020	09:00	12-04-2020	17:30	OCB	ER-II/Odisha/BARIPADA S/S	AMP works & Gasket replacement	
268	220KV Transfer BUS BAY (210 BAY)	11-04-2020	09:00	11-04-2020	18:00	ODB	ER-II/Odisha/Balangir	AMP for 210 52CB & 210 CT	
269	400 KV BAY OF CHAIBASA#1 LR (416R)	11-04-2020	09:00	11-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
270	400 kv Mendhasal -Pandiabili-2 main bay at Mendhasal sub-station.	11-04-2020	09:00	11-04-2020	18:00	ODB	ER-II/Odisha/ Pandiabili GIS	DCRM of main bay.	
271	400KV switcable L/R of Varanasi-2 at BiharSharif	12-04-2020	10:00	13-04-2020	18:00	ODB	POWERGRID ER-I	Relay Retrofitment	NLDC
272	400KV KAHALGAON- LAKHISARAI -I	12-04-2020	08:00	13-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
273	A/R OF 400KV KAHALGAON- LAKHISARAI -II	12-04-2020	08:00	13-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
274	400 KV tie bay of Mendhasal-Pandiabili -1 & Mendhasal Pandiabili -2 at Mendhasal sub-station.	12-04-2020	09:00	12-04-2020	18:00	ODB	ER-II/Odisha/ Pandiabili GIS	DCRM of tie bay.	
275	220kv KISHANGANJ -Dalkhola-2	13-04-2020	08:30	13-04-2020	18:00	ODB	POWERGRID ER-I	line bay AMP WORK & testing	
276	220 kV Bus-2 at 400kV New Purnea	13-04-2020	09:30	13-04-2020	18:00	ODB	POWERGRID ER-I	AMP work	BSEB
277	400 KV MAIN BUS-2 at Ranchi	13-04-2020	09:30	13-04-2020	17:00	ODB	POWERGRID ER-I	Fixing of Stool in Yph Bus-II CVT & AMP	JSEB
278	400kV Koderma - Bokaro-II	13-04-2020	08:00	18-04-2020	18:00	ODB	POWERGRID ER-I	For changing porcelain insulator by polymer insulator.	DVC
279	A/R OF 400kV Koderma - Bokaro-I	13-04-2020	08:00	18-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
280	766 KV BUS-2 at New Ranchi	13-04-2020	09:00	14-04-2020	17:30	ODB	POWERGRID ER-I	BAY EXTENSION WORKS FOR MEDINIPUR BAY	NLDC
281	400/220 KV 315 MVA ICT-2 at MUZAFFARPUR	13-04-2020	09:30	15-04-2020	17:30	OCB	POWERGRID ER-I	RETROFITTING OF BACKUP IMPEDANCE & REF RELAY ETC. & OLTC OVERHAULING work.	BSEB
282	220KV MUZ-DHALKEBAR (Nepal) -1 & 2 Line	13-04-2020	08:00	17-04-2020	19:00	OCB	POWERGRID ER-I	DE-STRINGING & RE-STRINING OF ONE SPAN OF 400KV LINE IN NEAR BY MUZAFFARPUR SUBSTATION. PLCC & DPC ERECTION, TESTING & COMMISSIO. FOTE PANEL SHIFTING & LINE TESTING ETC.	TO BE CLUBBED WITH MUZAFFARPUR ICT SHUTDOWN
283	400 KV Muzaffarpur- Darbhanga line-2	13-04-2020	08:00	17-04-2020	19:00	ODB	POWERGRID ER-I	STRINING OF ONE SPAN OF 400 KV MUZAFFARPUR-DHALKEBAR LINE.	
284	A/R OF 400 KV Muzaffarpur- Darbhanga line-1	13-04-2020	08:00	17-04-2020	19:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
285	400/220kv 315 MVA ICT- 2 at Jamshedpur	13-04-2020	09:30	13-04-2020	17:30	ODB	POWERGRID ER-I	Static relay (O/C & E/F,REF and differential) replacement by numerical relay at JUSNL	JSEB
286	765kV Angul-Sundargarh Ckt 4	13-04-2020	09:00	14-04-2020	18:00	ODB	ER-II/Odisha/Angul SS	Isolator & Earth switch alignment and mechanical interlock adjustment	NLDC
287	765kV Sundargarh-Dharamjaygarh Ckt #1	13-04-2020	08:00	13-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	NLDC
288	765kv/400KV , 1500MVA ICT-3	13-04-2020	09:00	13-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	Spare changeover & Stool arrangement for LA	NLDC
289	400kV Binaguri - Bongaigaon D/C (Twin) Line(POWERGRID)	13-04-2020	06:00	16-04-2020	18:00	ODB	POWERGRID, ER-II	Stringing at crossing between Loc. No. 11/o - 12/o of Jigmeling line and loc. No. 273-274 of Binaguri - Bongaigaon Line	NLDC
290	400KV Bus#2 at Binaguri substation (3 occasions)	13-04-2020	09:00	15-04-2020	17:00	ODB	POWERGRID,ER-II	Busbar stability and GIS connection, Rangpo Bay upgradation work (Bus isolator dismantling / erection)- 3 occasions	NLDC

291	400KV Maithon-Kahalgaoan I&II	13-04-2020	08:00	14-04-2020	18::00	OCB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	
292	220KV New Melli - Tashiding Line	13-04-2020	08:00	13-04-2020	17:30	ODB	POWERGRID, ER-II	AMP works	
293	400 KV Jeerat Sagardighi Line	13-04-2020	09:00	13-04-2020	17:00	ODB	POWERGRID, ER-II	A/R relay Retrofitting and Testing in 400 KV Jeerat Sagardighi Line at Jeerat end.	WB
294	400 KV Durgapur -Jamshedpur S/C-I	13-04-2020	08:00	14-04-2020	17:00	ODB	POWERGRID, ER-II	Replacement of porcelain insulator with CLR at major crossing by Durgapur TLM	
295	400kv main bay of New Purnia 1 at Biharsharif	13-04-2020	10:00	13-04-2020	18:00	ODB	POWERGRID ER-I	AMP Work	
296	400kv TIE Bay of Purnia 1 and Future at Bihar sharif	13-04-2020	10:00	13-04-2020	18:00	ODB	POWERGRID ER-I	AMP Work	
297	400KV Tie Bay of Ac filter north side and Converter transformer north Side AT SASARAM	13-04-2020	09:00	16-04-2020	18:00	OCB	POWERGRID ER-I	Overhauling of CWD10Q50-B phase Pole	
298	400kv Main Bay of 80 MVAR BR at LAKHISARAI	13-04-2020	10:00	13-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
299	132KV BAY OF 220/132KV ATR-2 at Daltonganj	13-04-2020	09:00	13-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
300	400kv Barh2-Balia-1 Tie bay (414) at Patna	13-04-2020	10:00	14-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
301	400kv Balia 2 main bay (416) at Patna	13-04-2020	10:00	14-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
302	BAY 410	13-04-2020	09:00	15-04-2020	17:00	OCB	BRBCL	ERECTION OF BAY EQUIPMENTS(BREAKER,CT,ISOLATOR) OF BAY 410 AS REQUESTED BY NPGCL	
303	400 kV 410 main Bay of Baripada-Pandiabili line	13-04-2020	09:00	14-04-2020	17:30	OCB	ER-II/Odisha/BARIPADA S/S	AMP works & Gasket replacement	
304	400 KV LINE BAY OF CHAIBASA#2 (409L)	13-04-2020	09:00	13-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
305	724 Main Bay of 765KV Sundargarh-Dharamjaygarh ckt-2	13-04-2020	09:00	16-04-2020	18:00	OCB	ER-II/Odisha/Sundargarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
306	419 Bay Maithon CKT-2 Main Bay at Durgapur	13-04-2020	09:30	13-04-2020	17:30	ODB	POWERGRID, ER-II	400KV Maithon ckt-2 shall remain service through 420 Tie Bay.	
307	66 KV Gangtok-Lagyap(LLHP) Line at Gangtok BAY No.-606	13-04-2020	09:00	13-04-2020	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	
308	400 Kv Patna-Ballia -III	14-04-2020	09:00	15-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of 160 KN porcelain & 120 KN Pilot string in all Tension Tower- 10 Nos by polmer by ER1.	NLDC
309	A/R OF 400 Kv Patna-Ballia -IV	14-04-2020	10:00	15-04-2020	19:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	NLDC
310	400KV switcable L/R of Varanasi-1 at BiharSharif	14-04-2020	10:00	15-04-2020	18:00	ODB	POWERGRID ER-I	Relay Retrofitment	NLDC
311	132 KV Bus 1 AT MOTIHARI	14-04-2020	08:00	15-04-2020	18:00	OCB	POWERGRID ER-I	Interconnection of Extension Bus (By POWERGRID)to existing Bus (DMTCL)	BSEB
312	Bus bar-1 at indravati	14-04-2020	09:00	14-04-2020	18:00	ODB	ER-II/Odisha/Indravati	AMP works of Bus-1	GRIDCO
313	765KV Sundargarh-Dharamjaygarh Ckt #3	14-04-2020	08:00	14-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	NLDC
314	400kv Farakka-Berhampore Ckt-I	14-04-2020	09:00	15-04-2020	17:00	ODB	POWERGRID, ER-II	REPLACEMENT OF DAMAGED INSULATOR BY MISCREANTS.	
315	220KV DLK-DLK(WB) # II	14-04-2020	09:00	14-04-2020	17:00	ODB	POWERGRID,ER-II	For AMP	WB
316	400KV Maithon - Jamshedpur	14-04-2020	08:00	19-04-2020	18:00	ODB	POWERGRID, ER-II	Insulator Replacement work	DVC

317	220KV New Melli -Rangpo Line	14-04-2020	08:00	14-04-2020	17:30	ODB	POWERGRID, ER-II	AMP works	
318	400 KV Rajarhat Jeerat Line	14-04-2020	09:00	14-04-2020	17:00	ODB	POWERGRID, ER-II	Main-1 Distance Relay Replacement at Jeerat end.	WB
319	400kv Main Bay Lakhisarai 2 at Biharsharif	14-04-2020	10:00	14-04-2020	18:00	ODB	POWERGRID ER-I	AMP and Compressor Overhauling of CB	
320	400kv Main Bay Sasaram 1 419 Bay at Biharsharif	14-04-2020	11:00	14-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
321	400kv Main bay of KGP-2 AT CHAIBASA	14-04-2020	09:30	14-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
322	400 KV Bus Reactor # 1 Main Bay (Bay No-410)	14-04-2020	08:00	14-04-2020	18:00	ODB	ER-II/Odisha/Rengali	For AMP Work	
323	201 Bay (ICT-1 220KV Incomer) at Durgapur	14-04-2020	09:30	14-04-2020	17:30	ODB	POWERGRID, ER-II	ICT-1 shall remain service through 202 TBC-1 Bay.	
324	400 KV MAITHON-GAYA-I	15-04-2020	09:00	16-04-2020	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF DISC INSULATOR DAMAGED BY MISCREANT AT MULTI CKT TOWER	
325	A/R OF 400 KV MAITHON-GAYA-II	15-04-2020	09:00	16-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
326	400 KV KODERMA-GAYA-II	15-04-2020	09:00	16-04-2020	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF DISC INSULATOR DAMAGED BY MISCREANT AT MULTI CKT TOWER	DVC
327	A/R OF 400 KV KODERMA-GAYA-I	15-04-2020	09:00	16-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
328	400KV KAHALGAON- LAKHISARAI -II	15-04-2020	08:00	16-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
329	A/R OF 400KV KAHALGAON- LAKHISARAI -I	15-04-2020	08:00	16-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
330	400KV KAHALGAON -MAITHON CKT 1	15-04-2020	08:00	15-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
331	A/R OF 400KV KAHALGAON -MAITHON CKT 2	15-04-2020	08:00	15-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
332	220kv KISHANGANJ -Dalkhola-1	15-04-2020	08:30	15-04-2020	18:00	ODB	POWERGRID ER-I	line bay AMP WORK & testing	
333	220 kV Bus-1 at 400kV New Purnea	15-04-2020	09:30	15-04-2020	18:00	ODB	POWERGRID ER-I	AMP work	BSEB
334	132KV S/C SASARAM-Dehri Line	15-04-2020	09:00	17-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings & Relay Retrofitting at Dehri End.	BSEB
335	400/220KV 315 MVA ICT-1 at Ranchi	15-04-2020	09:30	19-04-2020	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 THROUGH 315 MVA ICT-2 only.	JSEB
336	220 KV Ranchi- Chandil-1	15-04-2020	09:00	15-04-2020	17:00	ODB	POWERGRID ER-I	Flashed insulator replacement	JSEB
337	400KV NEW RANCHI -RANCHI CKT - 1	15-04-2020	08:00	15-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of flashed insulator	
338	A/R OF 400KV NEW RANCHI -RANCHI CKT - 2	15-04-2020	08:00	15-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
339	400/220kv 315 MVA ICT- 1 at Jamshedpur	15-04-2020	09:30	15-04-2020	17:30	ODB	POWERGRID ER-I	Static IV side O/C & E/F relay replacement by numerical relay at JUSNL	JSEB
340	Barh Patna Line # 2	15-04-2020	09:30	16-04-2020	18:00	OCB	BARH	For operation testing from SCADA & Auto Reclose relay testing & other testing and Annual maint of Bay equipments.	

341	765kV Sundargarh-Dharamjaygarh Ckt #4	15-04-2020	08:01	15-04-2020	19:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	NLDC
342	220KV Siliguri-Kishanganj-1 line	15-04-2020	09:00	16-04-2020	17:00	ODB	POWERGRID,ER-II	Replacement of insulators at Major crossings.	
343	400kV Maithon-Durgapur-2 line	15-04-2020	10:00	16-04-2020	16:00	ODB	POWERGRID, ER-II	Internal inspection/Overhauling of interrupter of 400kV CB of Main Bay.	
344	220KV New Melli-JLHEP Line-I	15-04-2020	08:00	15-04-2020	17:30	ODB	POWERGRID, ER-II	AMP works OF BAY.	
345	400KV Rangpo-Teesta-v Ckt-2	15-04-2020	08:00	30-04-2020	18:00	OCB	POWERGRID, ER-II	For Reconductring work of 400KV D/C Rangpo-Binaguri in Multicircuit Portion (M/C 8 - M/C 14-Rangpo Gantry).	TEESTA-V
346	400KV DIKCHU-RANGPO LINE	15-04-2020	09:00	30-04-2020	18:00	ODB	POWERGRID, ER-II	For stringing work of 400kV LOOP OUT IN Multicircuit Portion	
347	400 KV Farakka Durgapur S/C-I	15-04-2020	08:00	16-04-2020	17:00	ODB	POWERGRID, ER-II	Replacement of porcelain insulator with CLR at major crossing by Durgapur TLM	
348	400kv Main Bay of 400 kV LKR-KHG Line -1 at LAKHISARAI	15-04-2020	10:00	15-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
349	132KV BAY OF 220/132KV ATR-1 at Daltonganj	15-04-2020	09:00	15-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
350	400kv Tie bay of KGP 2 LINE & FUTURE BAY AT CHAIBASA	15-04-2020	09:30	15-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
351	400kv ICT1-NABINAGARI-TIE BAY (411) at Patna	15-04-2020	10:00	16-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
352	400 kV 411 Tie Bay of Baripada-Pandiabili & Baripada-TISCO line	15-04-2020	09:00	16-04-2020	17:30	OCB	ER-II/Odisha/BARIPADA S/S	AMP works & Gasket replacement	
353	220KV Future line-III BAY (207 BAY)	15-04-2020	09:00	15-04-2020	18:00	ODB	ER-II/Odisha/Balangir	AMP for 207 52CB & 207 CT	
354	765kV Sundargarh Ckt 4 LR Bay	15-04-2020	09:00	18-04-2020	18:00	OCB	ER-II/Odisha/Angul SS	Guide Valve Replacement	
355	204 Bay (220 KV DVC-2 Main Bay) at Durgapur	15-04-2020	09:30	15-04-2020	17:30	ODB	POWERGRID, ER-II	220KV DVC-2 shall remain service through 202 TBC-1 Bay	
356	66 KV Gangtok-Bulbulay Line at Gangtok BAY No.-605	15-04-2020	09:00	15-04-2020	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	
357	765 KV GAYA-BALIA-S/C	16-04-2020	09:00	30-04-2020	18:00	ODB	POWERGRID ER-I	FOR STRENGTHENING OF 765 KV LINE WIND ZONE-II TOWERS	NLDC
358	400 Kv Patna-Ballia -IV	16-04-2020	10:00	17-04-2020	19:00	ODB	POWERGRID ER-I	Replacement of 160 KN porcelain & 120 KN Pilot string in all Tension Tower- 10 Nos by polmer by ER1.	NLDC
359	A/R OF 400 Kv Patna-Ballia -III	16-04-2020	10:00	17-04-2020	19:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	NLDC
360	400/220kv 500MVA ICT 4 at Biharsharif	16-04-2020	10:00	16-04-2020	18:00	ODB	POWERGRID ER-I	CSD Commissioning and NTAMC Signal Validation work	BSEB
361	400kV Bus 2 at Biharsharif	16-04-2020	09:30	20-04-2020	18:00	ODB	POWERGRID ER-I	Upgradation of Busbar Scheme under project head and AMP	BEFORE GIVING CONSENT BSEB MAY PROPOSE SUITABLE LOAD ARRANGEMENT SCHEME
362	400KV KAHALGAON -MAITHON CKT 2	16-04-2020	08:00	16-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
363	A/R OF 400KV KAHALGAON -MAITHON CKT 1	16-04-2020	08:00	16-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
364	400/132 KV, 315MVA ICT-3 AT BANKA	16-04-2020	09:00	16-04-2020	18:00	ODB	POWERGRID ER-I	INSTALLATION OF PILOT INSULATOR IN 132KV SIDE GANTRY TOWERS UNDER THE PACKAGE OF SS01 ERSSXX	BSEB
365	400KV CBSA KGP-I	16-04-2020	09:30	16-04-2020	17:30	ODB	POWERGRID ER-I	LR 1 RTD REPALCEMENT AT CHAIBASA	WB
366	400KV NEW RANCHI -RANCHI CKT - 2	16-04-2020	08:00	16-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of flashed insulator	
367	A/R OF 400KV NEW RANCHI -RANCHI CKT - 1	16-04-2020	08:00	16-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
368	400 kV Patna-Barh CKT 1	16-04-2020	09:00	16-04-2020	17:30	ODB	POWERGRID ER-I	Porcelain to polymer insulator replacement at rail/road/river/powerline crossings	
369	A/R OF 400 kV Patna-Barh CKT 2	16-04-2020	09:00	16-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
370	132 KV Bus 2 AT MOTIHARI	16-04-2020	08:00	17-04-2020	18:00	OCB	POWERGRID ER-I	Interconnection of Extension Bus (By POWERGRID)to existing Bus (DMTCL)	BSEB

371	400KV Ranchi-Rourkela, CKT-I	16-04-2020	09:00	16-04-2020	17:00	ODB	POWERGRID ER-I	Flashed over insulators and CC Rings replacement at loc no 308.	
372	KTPP: 400kv bus coupler CB	16-04-2020	07:00	17-04-2020	15:00	OCB	WB	MAINTENANCE WORK	
373	400/220KV ICT#2	16-04-2020	09:00	16-04-2020	18:00	ODB	ER-II/Odisha/Indravati	To topup the oil in ICT#2 Y-ph. During this shutdown Power flow from ICT#2 will be Interrupted.	GRIDCO
374	400KV Baripada-Keonjhar line	16-04-2020	09:00	30-04-2020	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	
375	315 MVA ICT#1 at Rourkela	16-04-2020	09:00	30-04-2020	18:00	OCB	ER-II/ODISHA/ROURKELA	Erection works related to Parallelling of ICTs	GRIDCO
376	A/R OF 400KV Sundargarh-Raigarh Ckt #1&3	16-04-2020	08:00	30-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	For PID Testing of Porcelain Insulator. Only Auto reclose	NLDC
377	765KV Sundargarh-Angul Ckt #1	16-04-2020	08:00	17-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	NLDC
378	500 MVA ICT-1 at Pandiabili	16-04-2020	09:00	16-04-2020	18:00	ODB	ER-II/Odisha/ Pandiabili GIS	AMP WORK (tan delta & cap test of bushing)	GRIDCO
379	400kv Farakka-Berhampore Ckt-II	16-04-2020	09:00	17-04-2020	17:00	ODB	POWERGRID, ER-II	REPLACEMENT OF DAMAGED INSULATOR BY MISCREANTS.	
380	220KV Maithon-Dumka I&II	16-04-2020	08:00	17-04-2020	18:00	ODB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	
381	220KV New Melli-JLHEP Line-II	16-04-2020	08:00	16-04-2020	17:30	ODB	POWERGRID, ER-II	AMP works OF BAY.	
382	220/132 KV 160 MVA ICT -I at Birpara	16-04-2020	08:00	16-04-2020	17:30	ODB	POWERGRID, ER-II	AMP work at Birpara	WB
383	400KV FARAKKA-BAHARAMPUR-I	16-04-2020	09:00	17-04-2020	17:00	OCB	FARAKKA	CB AND RELAY TEST	
384	400KV TIE Bay of Sasaram 1 and Bus reactor 1, 420 Bay at Biharsharif	16-04-2020	11:00	16-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
385	Main Bay of 400kv Kishanganj-1 at New Purnea	16-04-2020	09:00	16-04-2020	12:00	ODB	POWERGRID ER-I	CT Oil Sampling	
386	Tie Bay of 400kv Kishanganj-1 & Muzaffarpur-2 (408-52) at New Purnea	16-04-2020	12:00	16-04-2020	15:00	ODB	POWERGRID ER-I	CT Oil Sampling	
387	Main Bay of 400kv Muzaffarpur-2(409-52) at New Purnea	16-04-2020	15:00	16-04-2020	18:00	ODB	POWERGRID ER-I	CT Oil Sampling	
388	204 LINE BAY at Keonjhar	16-04-2020	09:00	16-04-2020	18:00	ODB	ER-II/Odisha/Keonjhar	AMP WORKS.Rectification of CB: found faulty timing. Shutdown shall be taken if not availed in Mar'2020	
389	400 KV Indravati Line Main Bay (Bay No-412)	16-04-2020	08:00	13-03-2020	18:00	ODB	ER-II/Odisha/Rengali	For AMP Work	
390	220 KV Bus Coupler Bay (204 Bay)	16-04-2020	09:00	16-04-2020	18:00	ODB	ER-II/Odisha/Balangir	AMP for 204 52CB & 204 CT	
391	719 Main bay of 765KV NTPC Darlipalli ckt-2	16-04-2020	09:00	16-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	AMP	
392	400KV ALIPURDUAR-BONGAIGAON-1 main bay at Alipurduar	16-04-2020	09:00	16-04-2020	18:00	ODB	POWERGRID, ER-II	Bay AMP Work	
393	209 Bay (220KV ICT-2 Incomer Bay) at Durgapur	16-04-2020	09:30	16-04-2020	17:30	ODB	POWERGRID, ER-II	ICT-2 shall remain service through 210 TBC-2 Bay	
394	400KV BIHARSHARIF-KODERMA CKT-I	17-04-2020	08:00	19-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	DVC
395	A/R OF 400KV BIHARSHARIF-KODERMA CKT-II	17-04-2020	08:00	19-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
396	400KV KAHALGAON -MAITHON CKT 1	17-04-2020	08:00	17-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
397	A/R OF 400KV KAHALGAON -MAITHON CKT 2	17-04-2020	08:00	17-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
398	400kv switchable L/R Muzaffarpur-2(409R-52) at New Purnea	17-04-2020	09:00	17-04-2020	12:00	ODB	POWERGRID ER-I	CT Oil Sampling	
399	400KV CBSA KGP-II	17-04-2020	09:30	17-04-2020	17:30	ODB	POWERGRID ER-I	LR2 OIL TOP UP AT CHAIBASA	WB
400	400KV NEW RANCHI -RANCHI CKT - 3	17-04-2020	08:00	17-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of flashed insulator	
401	A/R OF 400KV NEW RANCHI -RANCHI CKT - 4	17-04-2020	08:00	17-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
402	400/220 KV 315 MVA ICT-1 at MUZAFFARPUR	17-04-2020	09:30	18-04-2020	17:30	ODB	POWERGRID ER-I	RETROFITTING OF BACKUP IMPEDANCE & REF RELAY.	BSEB
403	400 kV Patna-Barh CKT 2	17-04-2020	09:00	17-04-2020	17:30	ODB	POWERGRID ER-I	Porcelain to polymer insulator replacement at rail/road/river/powerline crossings	
404	A/R OF 400 kV Patna-Barh CKT 1	17-04-2020	09:00	17-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
405	125MVAR Bus Reactor-I	17-04-2020	09:00	17-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
406	400 KV Rourkela-SUNDARGARH#1 LINE	17-04-2020	09:00	17-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	LINE MAINTENANCE WORKS	

407	220KV Siliguri-Kishanganj-2 line	17-04-2020	09:00	18-04-2020	17:00	ODB	POWERGRID,ER-II	Replacement of insulators at Major crossings.	
408	400KV Bus Section-1 at Durgapur	17-04-2020	09:30	17-04-2020	17:00	ODB	POWERGRID, ER-II	400KV Bus-1&3 shall remains in service.	DVC
409	220KV New Melli Bus Coupler(Bay 210)	17-04-2020	08:00	17-04-2020	17:30	ODB	POWERGRID, ER-II	AMP works	
410	400KV Main Bay Bus Reactor 1, 421 Bay at Biharsharif	17-04-2020	11:00	17-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
411	Main Bay of 400kV Kishanganj-1 (410-52) at New Purnea	17-04-2020	12:00	17-04-2020	15:00	ODB	POWERGRID ER-I	CT Oil Sampling	
412	Main Bay of 400kV Muzaffarpur-1(412-52) at New Purnea	17-04-2020	15:00	17-04-2020	18:00	ODB	POWERGRID ER-I	CT Oil Sampling	
413	400KV Tie bay of AC filter north side and converter transformer north side AT SASARAM	17-04-2020	09:00	20-04-2020	18:00	OCB	POWERGRID ER-I	Overhauling of CWD50Q50 R&Y-Phase Pole	
414	400kv Tie Bay of 400 kV LKR-KHG-1 & 315 MVA ICT-3 at LAKHISARAI	17-04-2020	10:00	17-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
415	132KV MAIN BAY OF Chatarpur line-1 at Daltonganj	17-04-2020	09:00	17-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
416	400kv ICT1-MAIN BAY (412) at Patna	17-04-2020	10:00	18-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
417	206 LINE BAY at keonjhar	17-04-2020	09:00	17-04-2020	18:00	ODB	ER-II/Odisha/Keonjhar	AMP WORKS. Shutdown shall be taken if not availed in Mar'2020	
418	723 Tie Bay of 765KV Sundargarh-Dharamjaygarh ckt-2 & 765KV NTPC Darlipalli ck-1	17-04-2020	09:00	20-04-2020	18:00	OCB	ER-II/Odisha/Sundergarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
419	714 Tie bay of 765KV Angul ckt-2 & 765KV Dharamjaygarh ckt-3	17-04-2020	09:00	17-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	AMP	
420	400KVALIPURDUAR-BONGAIGAON-2 main bay at Alipurduar	17-04-2020	09:00	17-04-2020	18:00	ODB	POWERGRID, ER-II	Bay AMP Work	
421	400KV KAHALGAON -MAITHON CKT 2	18-04-2020	08:00	18-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
422	A/R OF 400KV KAHALGAON -MAITHON CKT 1	18-04-2020	08:00	18-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
423	400kv switchable L/R Muzaffarpur-1(409R-52) at New Purnea	18-04-2020	14:00	18-04-2020	17:00	ODB	POWERGRID ER-I	CT Oil Sampling	
424	132KV MOHANIA-Karmanasa S/C	18-04-2020	09:00	18-04-2020	18:00	ODB	POWERGRID ER-I	Relay retrofitting at Karmanasa end.	BSEB
425	400KV NEW RANCHI -RANCHI CKT - 4	18-04-2020	08:00	18-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of flashed insulator	
426	A/R OF 400KV NEW RANCHI -RANCHI CKT - 3	18-04-2020	08:00	18-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
427	220 kV TBC (206) at Patna	18-04-2020	10:00	19-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	BSEB
428	400 KV Bus 1 AT DARBHANGA	18-04-2020	08:00	19-04-2020	18:00	OCB	POWERGRID ER-I	Interconnection of Extension Bus (By POWERGRID)to existing Bus (DMTCL & ATL)	BSEB
429	765KV Sundargarh-Angul Ckt #2	18-04-2020	08:00	18-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	NLDC
430	500 MVA ICT-2 at Pandiabili	18-04-2020	09:00	18-04-2020	18:00	ODB	ER-II/Odisha/ Pandiabili GIS	AMP WORK (tan delta & cap test of bushing)	GRIDCO
431	220 KV PG(Maithon)-Dhanbad I&II	18-04-2020	08:00	19-04-2020	18:00	ODB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	JSEB
432	400 KV S/C Arambagh-Durgapur TL	18-04-2020	08:00	18-04-2020	17:00	ODB	POWERGRID, ER-II	Stringing b/w AP 33/o to 34/o of 765 KV D/C Medinipur Jeerat TL over existing	WB
433	400KV Main Bay of 400/220 ICT- 2 , 422 Bay at Biharsharif	18-04-2020	11:00	18-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
434	Tie Bay of 400kV Kishanganj-2 & Muzaffarpur-1 (411-52) at New Purnea	18-04-2020	09:00	18-04-2020	13:00	ODB	POWERGRID ER-I	CT Oil Sampling	
435	400kv Tie Bay of 400 Kv FUTURE & 125 MVAR BR at LAKHISARAI	18-04-2020	10:00	18-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
436	207 MAIN BAY at keonjhar	18-04-2020	09:00	18-04-2020	18:00	ODB	ER-II/Odisha/Keonjhar	AMP WORKS.Rectification of CB: found faulty timing & DCRM graphs. Shutdown shall be taken if not availed in Mar'2020	
437	400 KV Indravati - BR # 1 Tie Bay (Bay No-411)	18-04-2020	08:00	14-03-2020	18:00	ODB	ER-II/Odisha/Rengali	For AMP Work	
438	20452- 315MVA ICT II Bay	18-04-2020	09:00	18-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
439	714 Tie bay of 765KV Angul ckt-1 & 765KV Dharamjaygarh ckt-4	18-04-2020	09:00	18-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	AMP	
440	400KV ALIPURDUAR-BONGAIGAON-1 Tie bay at Alipurduar	18-04-2020	09:00	18-04-2020	18:00	ODB	POWERGRID, ER-II	Bay AMP Work	
441	400KV Switchable L/R of New Purnia 1 at BiharSharif	19-04-2020	10:00	20-04-2020	18:00	ODB	POWERGRID ER-I	Relay Retrofitment	
442	400kv Koderma - Gaya-I	19-04-2020	08:00	21-04-2020	18:00	ODB	POWERGRID ER-I	For changing porcelain insulator by polymer insulator.	DVC
443	A/R OF 400KV Koderma - Gaya-II	19-04-2020	08:00	21-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
444	400 KV S/C Arambagh-Durgapur TL	19-04-2020	08:00	19-04-2020	17:00	ODB	POWERGRID, ER-II	400 KV S/C Arambagh-Durgapur TL	WB
445	400KV Rangpo Teesta-v Ckt-2 at Rangpo	19-04-2020	08:00	23-04-2020	17:00	OCB	POWERGRID, ER-II	For rectification of SF6 gas leakage repair work,	TEESTA-V
446	400kv TIE Bay of ICT2 and Bus reactor 3, 423 Bay at Bihar sharif	19-04-2020	11:00	19-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	

447	201 main bay of 220KV Baripada-Balasore Line -1	19-04-2020	09:00	19-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
448	400KV ALIPURDUAR-BONGAIGAON-2 Tie bay at Alipurduar	19-04-2020	09:00	19-04-2020	18:00	ODB	POWERGRID, ER-II	Bay AMP Work	
449	400 KV MAITHON-GAYA-II	20-04-2020	09:00	21-04-2020	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF DISC INSULATOR DAMAGED BY MISCREANT AT MULTI CKT TOWER	
450	A/R OF 400 KV MAITHON-GAYA-I	20-04-2020	09:00	21-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
451	400 KV KODERMA-GAYA-I	20-04-2020	09:00	21-04-2020	18:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF DISC INSULATOR DAMAGED BY MISCREANT AT MULTI CKT TOWER	DVC
452	A/R OF 400 KV KODERMA-GAYA-II	20-04-2020	09:00	21-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
453	400/220kv 315MVA ICT 3 at Biharsharif	20-04-2020	10:00	23-04-2020	18:00	OCB	POWERGRID ER-I	OLTCT Overhauling	BSEB
454	400kv Bus 1 at Biharsharif	20-04-2020	09:30	26-04-2020	18:00	OCB	POWERGRID ER-I	Upgradation of Busbar Scheme under project head and AMP	BEFORE GIVING CONSENT BSEB MAY PROPOSE SUITABLE LOAD ARRANGEMENT SCHEME
455	400KV BIHARSHARIF- KODERMA CKT-II	20-04-2020	08:00	22-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	DVC
456	A/R OF 400KV BIHARSHARIF- KODERMA CKT-I	20-04-2020	08:00	22-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
457	400KV KAHALGAON- MAITHON CKT 1	20-04-2020	08:00	20-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
458	A/R OF 400KV KAHALGAON -MAITHON CKT 2	20-04-2020	08:00	20-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
459	220kv KISHANGANJ-siliguri -2	20-04-2020	08:30	20-04-2020	18:00	ODB	POWERGRID ER-I	line bay AMP WORK & testing	
460	220KV SASARAM-NADOKHAR-I	20-04-2020	09:00	20-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings	BSEB
461	400kv switchable L/R of NABINAGAR 2 at Patna	20-04-2020	10:00	20-04-2020	14:00	ODB	POWERGRID ER-I	CSD tuning	
462	400kv switchable L/R of NABINAGAR 1 at Patna	20-04-2020	14:30	20-04-2020	17:30	ODB	POWERGRID ER-I	CSD tuning	
463	220kv Bus coupler at Patna	20-04-2020	09:00	21-04-2020	18:00	OCB	POWERGRID ER-I	CB overhauling work +BCU Upgradation wiring	BSEB
464	400 kv Bus 2 AT DARBHANGA	20-04-2020	08:00	21-04-2020	18:00	OCB	POWERGRID ER-I	Interconnection of Extension Bus (By POWERGRID)to existing Bus (DMTCL & ATL)	BSEB
465	400kv Jamshedpur -Durgapur Line	20-04-2020	09:30	20-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of porcelain insulator string with Polymer insulator string at Jamshedpur ss due to high pollution. (Line along with Main & Tie bay remain out of service)	
466	ICT # 1	20-04-2020	09:30	25-04-2020	18:00	OCB	BARH	For operation testing from SCADA & Auto Reclose relay testing & other testing and Annual maint of Bay equipments.	
467	50MVAR Line Reactor	20-04-2020	09:00	20-04-2020	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	
468	400KV Rengali-Indravati S/c Line	20-04-2020	09:00	30-04-2020	18:00	OCB	ER-II/Odisha/Balangir	Dismantling of 3 nos. existing towers, installation of 4 nos. New towers under existing line and stringing of 5 nos. span for line diversion work due to construction of new Balangir-Khurda Line under East Cost Railway, Balangir	NLDC
469	400 KV Rourkela-SUNDARGARH#3 LINE	20-04-2020	16:00	20-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	FOR TAKING THE LINE REACTOR INTO SERVICE AFTER GASKET REPLACEMENT & OVERHAULING	
470	765kv/400KV , 1500MVA ICT-3	20-04-2020	09:00	20-04-2020	12:00	ODB	ER-II/Odisha/Sundergarh	Spare changeover	NLDC
471	400kv Alipurduar - New Siliguri D/C (QUAD) Line (STERLITE)	20-04-2020	06:00	23-04-2020	18:00	ODB	POWERGRID, ER-II	Stringing at crossing between Loc. No. 13/o - 14/o of Jigmeling line and loc. No. 292-293 of Sterlite Line	NLDC
472	132 KV Kursoeng-Rangit line	20-04-2020	09:00	21-04-2020	17:00	ODB	POWERGRID,ER-II	Replacement of insulators at Major crossings.	WB
473	132KV S/C Maithan Hydrel - Jamtara	20-04-2020	08:00	21-04-2020	18:00	ODB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # 1 Line	DVC
474	400KV Mejia - Jamshedpur	20-04-2020	08:00	25-04-2020	18:00	ODB	POWERGRID, ER-II	Insulator Replacement work	DVC

475	400 KV Farakka Durgapur S/C-2	20-04-2020	08:00	21-04-2020	17:00	ODB	POWERGRID, ER-II	Replacement of porcelain insulator with CLR at major crossing by Durgapur TLM	
476	400KV FARAKKA-khstpp-I	20-04-2020	09:00	22-04-2020	17:00	OCB	FARAKKA	LINE EARTH SWITCH	
477	400kv Main Bay Banka 1 , 428 Bay at BiharSharif	20-04-2020	11:00	19-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
478	40kv TIE Bay of Banka 1 and Banka 2, 429 Bay at BiharSharif	20-04-2020	11:00	20-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
479	440 Reactor bay of Varansi -I at BiharSharif 440 R	20-04-2020	09:30	20-04-2020	13:00	ODB	POWERGRID ER-I	NTAMC Signal testing	
480	Main Bay of 400kV Malda-2 (413-52) at New Purnea	20-04-2020	09:00	20-04-2020	12:00	ODB	POWERGRID ER-I	CT Oil Sampling	
481	Tie Bay of 400kV Malda-2 & Bus Reactor-1 (414-52) at New Purnea	20-04-2020	12:00	20-04-2020	15:00	ODB	POWERGRID ER-I	CT Oil Sampling	
482	Main Bay of 400kV Bus Reactor-1 (415-52) at New Purnea	20-04-2020	15:00	20-04-2020	18:00	ODB	POWERGRID ER-I	CT Oil Sampling	
483	400kv Main Bay of 125 MVAR BR at LAKHISARAI	20-04-2020	10:00	20-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
484	10852- 132KV Bangriposi Line Main Bay	20-04-2020	09:00	20-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
485	765kV Sundargarh Ckt 3 LR Bay	20-04-2020	09:00	22-04-2020	18:00	OCB	ER-II/Odisha/Angul SS	Guide Valve Replacement	
486	66 KV Gangtok-Tadong Line at Gangtok BAY No.-607	20-04-2020	09:00	20-04-2020	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	
487	132 kV Ara Dumraon-s/c	21-04-2020	09:00	21-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of Static Overcurrent and Earth Fault Relay.	BSEB
488	400kv 80MVAR Bus Reactor 2 at BiharSharif	21-04-2020	10:00	22-04-2020	18:00	ODB	POWERGRID ER-I	Relay Retrofitment	
489	400KV KAHALGAON -MAITHON CKT 2	21-04-2020	08:00	21-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
490	A/R OF 400KV KAHALGAON -MAITHON CKT 1	21-04-2020	08:00	21-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
491	220KV SASARAM-NADOKHAR-II	21-04-2020	09:00	21-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings	BSEB
492	400 kV Barh-Kahalgaon CKT I	21-04-2020	09:00	21-04-2020	17:30	ODB	POWERGRID ER-I	Porcelain to polymer insulator replacement at rail/road/river/powerline crossings	
493	A/R OF 400 kV Barh-Kahalgaon CKT II	21-04-2020	09:00	21-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
494	400 kV Jamshedpur- Mejia Line	21-04-2020	09:30	21-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of porcelain insulator string with Polymer insulator string at Jamshedpur ss due to high pollution. (Line along with Main & Tie bay remain out of service)	DVC
495	KTTP: 400kv CB iro NewChandital S/C	21-04-2020	07:00	22-04-2020	15:00	OCB	WB	MAINTENANCE WORK	
496	220KV Bus-I	21-04-2020	09:00	21-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Isolator allignment work	GRIDCO
497	765KV Sundargarh-Angul Ckt #3	21-04-2020	08:00	24-04-2020	18:00	OCB	ER-II/Odisha/Sundargarh	TP Tower Maintenance work	NLDC
498	400KV Sterlite ckt-1	21-04-2020	09:00	21-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	AMP	GRIDCO
499	400KV Sterlite ckt-2	21-04-2020	09:00	21-04-2020	18:00	ODB	ER-II/Odisha/Sundergarh	AMP	GRIDCO
500	400kV Meramundali -Mendhasal Circuit - I	21-04-2020	08:00	24-04-2020	17:00	OCB	GRIDCO	Checking of jumper and insulator replacement of the line	
501	400kv Main Bay Banka 2 , 430 Bay at BiharSharif	21-04-2020	11:00	21-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
502	441 Tie bay of Varansi -I and Furure bay at BiharSharif	21-04-2020	14:00	21-04-2020	18:00	ODB	POWERGRID ER-I	NTAMC Signal testing	
503	Main Bay of 400kV Malda-1 (416-52) at New Purnea	21-04-2020	09:00	21-04-2020	12:00	ODB	POWERGRID ER-I	CT Oil Sampling	
504	Tie Bay of 400kV Malda-1 & Bus Reactor-2 (417-52) at New Purnea	21-04-2020	12:00	21-04-2020	15:00	ODB	POWERGRID ER-I	CT Oil Sampling	
505	Main Bay of 400kV Farakka (419-52) at New Purnea	21-04-2020	15:00	21-04-2020	18:00	ODB	POWERGRID ER-I	CT Oil Sampling	
506	132KV MAIN BAY OF Chatarpur line-2 at Daltonganj	21-04-2020	09:00	21-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
507	220kv side main bay of 400/220kv ICT 2 at Patna	21-04-2020	10:00	22-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
508	713 Main Bay of 765KV Sundargarh-Angul ckt-2	21-04-2020	09:00	24-04-2020	18:00	OCB	ER-II/Odisha/Sundergarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
509	400kV Main Bay Berhampore-Bheramara-2 (Bay 401) at Berhampore	21-04-2020	09:00	21-04-2020	17:00	ODB	POWERGRID, ER-II	Bay AMP	
510	132 kV Ara Jagdishpur ckt 2	22-04-2020	09:00	22-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of Static Overcurrent and Earth Fault Relay.	BSEB
511	400KV switcable L/R of Varanasi-2 at BiharSharif	22-04-2020	09:30	22-04-2020	13:00	ODB	POWERGRID ER-I	NTAMC Signal testing	BSEB
512	400KV KAHALGAON- MAITHON CKT 1	22-04-2020	08:00	22-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
513	A/R OF 400KV KAHALGAON -MAITHON CKT 2	22-04-2020	08:00	22-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	

514	400 KV SASARAM-Biharsharif Line-1	22-04-2020	09:00	24-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings	
515	A/R OF 400 KV SASARAM-Biharsharif Line-2	22-04-2020	09:00	24-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
516	400 kv Ranchi Sipat-2	22-04-2020	09:30	22-04-2020	17:00	ODB	POWERGRID ER-I	AMP, TWFL relay installation & FSC CAPTHOR CHANGING WORK	NLDC
517	A/R OF 400 kv Ranchi Sipat-1	22-04-2020	09:30	22-04-2020	17:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	NLDC
518	400kv Koderma - Gaya-II	22-04-2020	08:00	24-04-2020	18:00	ODB	POWERGRID ER-I	For changing porcelain insulator by polymer insulator.	DVC
519	A/R OF 400kv Koderma - Gaya-I	22-04-2020	08:00	24-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
520	132 kV LKR-JAMUI Line-1	22-04-2020	10:00	22-04-2020	14:00	ODB	POWERGRID ER-I	AMP work	BSEB
521	400 kv Barh-Kahalgaon CKT II	22-04-2020	09:00	22-04-2020	17:30	ODB	POWERGRID ER-I	Porcelain to polymer insulator replacement at rail/road/river/powerline crossings	
522	A/R OF 400 kV Barh-Kahalgaon CKT I	22-04-2020	09:00	22-04-2020	17:30	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
523	400 kV Jamshedpur- Maithon Line	22-04-2020	09:30	22-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of porcelain insulator string with Polymer insulator string at Jamshedpur ss due to high pollution. (Line along with Main & Tie bay remain out of service)	
524	220KV Bus-II	22-04-2020	09:00	22-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Isolator allignment work	GRIDCO
525	STATCOM VSC-1	22-04-2020	09:00	22-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
526	400KV ALIPURDUAR-PUNATSANGCHUN(JIGMELING INTERIM-1)	22-04-2020	09:00	22-04-2020	18:00	ODB	POWERGRID, ER-II	Bay AMP Work	NLDC
527	132 KV Siliguri-Melli line	22-04-2020	09:00	24-04-2020	17:00	ODB	POWERGRID,ER-II	Replacement of insulators at Major crossings.	SIKKIM
528	432 Tie bay of Varansi -2 and Furure bay at Biharsharif	22-04-2020	14:00	22-04-2020	18:00	ODB	POWERGRID ER-I	NTAMC Signal testing	
529	220 kV side of main Bay of 400/220kv 500MVA ICT-2 at New Purnea	22-04-2020	09:00	22-04-2020	12:00	ODB	POWERGRID ER-I	CT Oil Sampling	
530	Main Bay of 400kv Gokarna (422-52) at New Purnea	22-04-2020	12:00	22-04-2020	15:00	ODB	POWERGRID ER-I	CT Oil Sampling	
531	Tie Bay of 400kv Farakka & Biharshariff-2 (420-52) at New Purnea	22-04-2020	15:00	22-04-2020	18:00	ODB	POWERGRID ER-I	CT Oil Sampling	
532	220kv main bay sipara 1 at Patna	22-04-2020	09:00	23-04-2020	18:00	OCB	POWERGRID ER-I	CB overhauling work +BCU Upgradation wiring	
533	400kv Tie Bay of Berhampore-Bheramara-2 and 80 MVar Bus Reactor-I (Bay 402) at Berhampore	22-04-2020	09:00	22-04-2020	17:00	ODB	POWERGRID, ER-II	Bay AMP	
534	132 kV Ara-Ara (BSPTCL)	23-04-2020	09:00	23-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of Static Overcurrent and Earth Fault Relay.	BSEB
535	400kv 125mvar Bus Reactor 4 at Biharshariff	23-04-2020	10:00	24-04-2020	18:00	ODB	POWERGRID ER-I	Relay Retrofitment	
536	400/220kv 500MVA ICT 4 at Biharsharif	23-04-2020	10:00	23-04-2020	18:00	OCB	POWERGRID ER-I	NTAMC Singnal Integration and CSD Commissioning work	TO BE CLUBBED WITH CSD/NTAMC WORK
537	400KV BIHARSHARIF-MUZAFFARPUR CKT-I	23-04-2020	08:00	25-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
538	A/R OF 400KV BIHARSHARIF-MUZAFFARPUR CKT-II	23-04-2020	08:00	25-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
539	400KV KAHALGAON MAITHON CKT 2	23-04-2020	08:00	23-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
540	A/R OF 400KV KAHALGAON -MAITHON CKT 1	23-04-2020	08:00	23-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	SD will be given from 08.04.2020 onwards after one unit of BRBCL out for AOH SD will be given from 08.04.2020 onwards after one unit of BRBCL out for AOH SD will be given from 08.04.2020 onwards after one unit of BRBCL out for AOH SD will be given from 08.04.2020 onwards after one unit of BRBCL out for AOH SD will be given from 08.04.2020 onwards after one unit of BRBCL out for AOH
541	220kv KISHANGANJ-siliguri -1	23-04-2020	08:30	23-04-2020	18:00	ODB	POWERGRID ER-I	line bay AMP WORK & testing	
542	400kv New Purnea-Siliguri-1 Line	23-04-2020	10:00	23-04-2020	18:00	ODB	POWERGRID ER-I	Relay retrofitting works IN 63MVAR Siliguri-1 L/R	
543	400KV SASARAM- Daltonganj Line-I	23-04-2020	09:00	14-05-2020	18:00	OCB	POWERGRID ER-I	Rectification of Tower No:- 170 of Pusauli- Nabinagr D/C Line having critical leg bend. To be discussed in special meeting	
544	A/R OF 400KV SASARAM- Daltonganj Line-II	23-04-2020	09:00	14-05-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
545	400KV SASARAM-Nabinagar Line-1	23-04-2020	09:00	26-05-2020	18:00	OCB	POWERGRID ER-I	Rectification of Tower No:- 170 of Pusauli- Nabinagr D/C Line having critical leg bend. To be discussed in special meeting	
546	A/R OF 400KV SASARAM-Nabinagar Line-II	23-04-2020	09:00	26-05-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	

547	400 kv Ranchi Sipat-1	23-04-2020	09:30	23-04-2020	17:00	ODB	POWERGRID ER-I	AMP & FSC CAPTHOR CHANGING WORK. And TL work	NLD
548	A/R OF 400 kv Ranchi Sipat-2	23-04-2020	09:30	23-04-2020	17:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	C
549	400 KV Bus 1 AT MOTIHARI	23-04-2020	08:00	24-04-2020	18:00	OCB	POWERGRID ER-I	Interconnection of Extension Bus (By POWERGRID)to existing Bus (DMTCL)	NLD
550	400 kV Jamshedpur- Chaibasa # 1 Line	23-04-2020	09:30	23-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of porcelain insulator string with Polymer insulator string at Jamshedpur ss due to high pollution. (Line along with Main & Tie bay remain out of service)	C BSE B
551	STATCOM VSC-2	23-04-2020	09:00	23-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	
552	400KV Sundargarh-Rourkela Ckt #2	23-04-2020	08:00	23-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	
553	765kv/400KV , 1500MVA ICT-4	23-04-2020	09:00	23-04-2020	18:00	ODB	ER-II/Odisha/Sundargarh	Spare changeover & Stool arrangement for LA	NLDC
554	80 MVAR BUS REACTOR	23-04-2020	09:00	23-04-2020	18:00	ODB	ER-II/Odisha/ Pandiabili GIS	AMP WORK (Timing, CRM and DCRM)	
555	400KV ALIPURDUAR-PUNATSANGCHUN(JIGMELING INTERIM-2)	23-04-2020	09:00	23-04-2020	18:00	ODB	POWERGRID, ER-II	Bay AMP Work	NLDC
556	400KV Maithon-Right Bank #II	23-04-2020	08:00	07-05-2020	18:00	OCB	POWERGRID, ER-II	Re conducting work ERSS-XVIIIB	AVAILABILITY OF MPL UNITS MAY BE CONSIDERED
557	400KV Maithon-Right Bank #I	23-04-2020	08:00	07-05-2020	18:00	OCB	POWERGRID, ER-II	To be kept in Non-Auto Mode during reconductoring of 400KV Maithon-RB#II line for safety measure	AVAILABILITY OF MPL UNITS MAY BE CONSIDERED

558	400kV Main Bay ICT 3 220kV side ,212 Bay at Biharsharif	23-04-2020	11:00	23-04-2020	13:00	ODB	POWERGRID ER-I	Compressor Overhauling of CB	
559	400KV lakhsarai2 reactor bay at Biharsharif	23-04-2020	09:30	23-04-2020	13:00	ODB	POWERGRID ER-I	NTAMC Signal testing	
560	424 main bay of Bus reactor -3 at Biharsharif	23-04-2020	14:00	23-04-2020	18:00	ODB	POWERGRID ER-I	NTAMC Signal testing	
561	132 KV Transfer Bus coupler bay(105 bay) at Daltonganj	23-04-2020	09:00	23-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
562	220kv main bay of KHGAUL-I at Patna	23-04-2020	10:00	24-04-2020	18:00	ODB	POWERGRID ER-I	BCU Upgradation wiring	
563	220KV ICT#2 Main Bay (205) at OHPC S/Y	23-04-2020	09:00	23-04-2020	18:00	ODB	ER-II/Odisha/Indravati	AMP works of 220KV ICT#2 Main Bay (205) at OHPC S/Y. During this shutdown Power flow from ICT#2 will be Interrupted.	
564	40102-Tie bay of 400KV Duburi-P.billi & Future line	23-04-2020	09:00	23-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
565	400kV Main Bay of 80 MVar Bus Reactor-I (Bay 403) at Berhampore	23-04-2020	09:00	23-04-2020	17:00	ODB	POWERGRID, ER-II	Bay AMP	
566	66 KV Gangtok-Sherathang Line at Gangtok BAY No.-604	23-04-2020	09:00	23-04-2020	14:00	ODB	POWERGRID, ER-II	For Annual AMP Works	
567	132 kV Ara Jagdishpur ckt 1	24-04-2020	09:00	24-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of Static Overcurrent and Earth Fault Relay	BSEB
568	400/220kv 315MVA ICT 2 at Biharsharif	24-04-2020	10:00	29-04-2020	18:00	OCB	POWERGRID ER-I	BUSHING Replacement	BSEB
569	125 MVAR Bus reactor -4 at Biharsharif	24-04-2020	09:30	24-04-2020	13:00	ODB	POWERGRID ER-I	NTAMC Signal testing	
570	400KV KAHALGAON MAITHON CKT 1	24-04-2020	08:00	24-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
571	A/R OF 400KV KAHALGAON -MAITHON CKT 2	24-04-2020	08:00	24-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
572	400kV New Purnea- Kishanganj-1 Line	24-04-2020	10:00	24-04-2020	18:00	ODB	POWERGRID ER-I	Relay retrofitting works IN 63MVAR Kishanganj-1 L/R	
573	132 kv LKR-JAMUI Line-2	24-04-2020	10:00	24-04-2020	14:00	ODB	POWERGRID ER-I	AMP work	BSEB
574	400 kV Jamshedpur- Chaibasa # 2 Line	24-04-2020	09:30	24-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of porcelain insulator string with Polymer insulator string at Jamshedpur ss due to high pollution. (Line along with Main & Tie bay remain out of service)	
575	KTPP: 400kv CB iro Kharagpur#2	24-04-2020	07:00	25-04-2020	15:00	OCB	WB	MAINTENANCE WORK	
576	765kV Angul-Srikakulam ckt-1 LR	24-04-2020	09:00	27-04-2020	18:00	OCB	ER-II/Odisha/Angul SS	Guide Valve Replacement	NLDC
577	400 KV Rourkela-SUNDARGARH#2 LINE	24-04-2020	09:00	24-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	LINE MAINTENANCE WORKS	
578	220KV Maithon-Dumka I&II	24-04-2020	08:00	25-04-2020	18:00	ODB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line	JSEB
579	400KV BUS-II at Malda	24-04-2020	08:00	24-04-2020	17:00	ODB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB
580	400KV MAIN BAY(406) OF 400/220KV 315MVA ICT-2 AT RANCHI	24-04-2020	09:30	24-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
581	220kv main bay of Sipara 2 at Patna	24-04-2020	09:00	26-04-2020	18:00	OCB	POWERGRID ER-I	CB overhauling work +BCU Upgradation wiring	
582	403-main bay of 400KV Duburi-Baripada Line at Duburi SS	24-04-2020	09:00	24-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
583	400KV Bus sectionalizer of Bus-1 & 3 at Biharsharif	25-04-2020	10:00	25-04-2020	18:00	ODB	POWERGRID ER-I	NTAMC Signal testing	
584	400KV Bus sectionalizer of Bus-2& 4 at Biharsharif	25-04-2020	09:30	25-04-2020	18:00	ODB	POWERGRID ER-I	NTAMC Signal testing	
585	400KV KAHALGAON MAITHON CKT 2	25-04-2020	08:00	25-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
586	A/R OF 400KV KAHALGAON -MAITHON CKT 1	25-04-2020	08:00	25-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
587	400kv switchable L/R Muzaffarpur-1(409R-52) at New Purnea	25-04-2020	09:00	25-04-2020	18:00	ODB	POWERGRID ER-I	Relay retrofitting works IN 63MVAR Muzaffarpur-1 L/R	
588	400 KV SASARAM -Biharsharif Line-2	25-04-2020	09:00	27-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of insulators at Road/Rail/River/Power Line Crossings	
589	A/R OF 400 KV SASARAM-Biharsharif Line-1	25-04-2020	09:00	27-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
590	400kV Koderma - Biharsarif-I	25-04-2020	08:00	27-04-2020	18:00	ODB	POWERGRID ER-I	For changing porcelain insulator by polymer insulator.	DVC
591	A/R OF 400kV Koderma - Biharsarif-II	25-04-2020	08:00	27-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	DVC
592	400 kv bus 2 AT MOTIHARI	25-04-2020	08:00	26-04-2020	18:00	OCB	POWERGRID ER-I	Interconnection of Extension Bus (By POWERGRID)to existing Bus (DMTCL)	BSEB
593	400 kV Jamshedpur- Andar # 1 Line	25-04-2020	09:30	25-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of porcelain insulator string with Polymer insulator string at Jamshedpur ss due to high pollution. (Line along with Main & Tie bay remain out of service)	DVC
594	400 KV Rourkela-SUNDARGARH#4 LINE	25-04-2020	09:00	25-04-2020	18:00	ODB	ER-II/ODISHA/ROURKELA	LINE MAINTENANCE WORKS	
595	765KV Sundargarh-Angul Ckt #4	25-04-2020	08:00	28-04-2020	18:00	OCB	ER-II/Odisha/Sundargarh	TP Tower Maintenance work	NLDC

596	125 Mvar Bus Reactor at Berhampore	25-04-2020	09:00	25-04-2020	17:00	ODB	POWERGRID, ER-II	Reactor AMP	
597	400kV Bus-III at Maithon	25-04-2020	10:00	25-04-2020	19:00	ODB	POWERGRID, ER-II	Dismantling work of Bus isolator of 400kV RB-2 under ERSS-XVII project work	DVC
598	400KV BUS-I at Malda	25-04-2020	08:00	25-04-2020	17:00	ODB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB
599	400/220 KV 315 MVA ICT-V at Malda	25-04-2020	08:00	25-04-2020	17:00	ODB	POWERGRID, ER-II	S/D required due to ICT -V's 89B isolator defect i.r.o BUS-I S/D.	WB
600	400 KV D/C Arambag - Kolaghat, Arambag - Durgapur TL	25-04-2020	08:00	25-04-2020	17:00	ODB	POWERGRID, ER-II	Stringing b/w AP 31/o to 32/o of 765 KV D/C Medinipur Jeerat TL over existing 400 KV D/C Arambag - Kolaghat, Arambag - Durgapur TL.	WB
601	400KV MAIN BAY (433) OF NEW RANCHI-3 AT RANCHI	25-04-2020	09:30	25-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
602	132KV MAIN BAY OF Daltanganj-1 (jusnl) at Daltanganj	25-04-2020	09:00	25-04-2020	17:30	ODB	POWERGRID ER-I	AMP work	
603	40304-Tie bay of Duburi-BPD line & Bus Reactor at Duburi SS	25-04-2020	09:00	25-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
604	716 Main Bay of 765KV Sundargarh-Angul ckt-1	25-04-2020	09:00	28-04-2020	18:00	OCB	ER-II/Odisha/Sundargarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
605	400KV BIHARSHARIF- MUZAFFARPUR CKT-II	26-04-2020	08:00	28-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
606	A/R OF 400KV BIHARSHARIF- MUZAFFARPUR CKT-I	26-04-2020	08:00	28-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
607	400KV KAHALGAON MAITHON CKT 1	26-04-2020	08:00	26-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
608	A/R OF 400KV KAHALGAON -MAITHON CKT 2	26-04-2020	08:00	26-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
609	400KV Baripada-Keonjhar line	26-04-2020	09:00	26-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Replacement of porcelain insulator into polymer insulator in Tr. line for line crossing	
610	220 KV PG(Maithon)-Dhanbad I&II	26-04-2020	08:00	27-04-2020	18:00	ODB	POWERGRID, ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # IILine	DVC
611	400 KV D/C Arambag - Kolaghat, Arambag - Durgapur TL	26-04-2020	08:00	26-04-2020	17:00	ODB	POWERGRID, ER-II	Stringing b/w AP 31/o to 32/o of 765 KV D/C Medinipur Jeerat TL over existing 400 KV D/C Arambag - Kolaghat, Arambag - Durgapur TL.	WB
612	132 kV Main bay of 400/132kv 200MVA ICT-2 at LAKHISARAI	26-04-2020	10:00	26-04-2020	14:00	ODB	POWERGRID ER-I	AMP work	
613	400KV KAHALGAON MAITHON CKT 2	27-04-2020	08:00	27-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
614	A/R OF 400KV KAHALGAON -MAITHON CKT 1	27-04-2020	08:00	27-04-2020	18:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
615	400kv switchable L/R Muzaffarpur-2(409R-52) at New Purnea	27-04-2020	09:00	27-04-2020	18:00	ODB	POWERGRID ER-I	Relay retrofitting works IN 63MVAR Muzaffarpur-2 L/R	
616	400 kV Jamshedpur- Andar # 2 Line	27-04-2020	09:30	27-04-2020	17:30	ODB	POWERGRID ER-I	Replacement of porcelain insulator string with Polymer insulator string at Jamshedpur ss due to high pollution. (Line along with Main & Tie bay remain out of service)	DVC
617	Barh Kahalgaon Line # 2	27-04-2020	09:30	28-04-2020	18:00	OCB	BARH	For operation testing from SCADA & Auto Reclose relay testing & other testing and Annual maint of Bay equipments.	
618	400KV Baripada-Kharagpur line	27-04-2020	09:00	28-04-2020	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Replacement of porcelain insulator into polymer insulator in Tr. line for line crossing	WB
619	220 KV Alipurduar - Birpara Ckt I	27-04-2020	06:00	28-04-2020	18:00	ODB	POWERGRID, ER-II	Insulator Replacement work at Major crossing	
620	400KV Maithon - Mejia 1	27-04-2020	08:00	27-04-2020	18:00	ODB	POWERGRID, ER-II	Insulator Replacement work	DVC
621	220 kV Bus-I at Malda	27-04-2020	08:00	27-04-2020	17:00	ODB	POWERGRID, ER-II	ERSS-XVII-B Constructional work	WB
622	400kv Main bay of Balia 2 at Biharsharif	27-04-2020	09:30	27-04-2020	18:00	ODB	POWERGRID ER-I	AMP Work	
623	400KV MAIN BAY (436) OF NEW RANCHI-4 AT RANCHI	27-04-2020	09:30	27-04-2020	17:00	ODB	POWERGRID ER-I	AMP work	
624	220kv main bay 220KV Fatuha line at Patna	27-04-2020	09:00	28-04-2020	18:00	OCB	POWERGRID ER-I	CB overhauling work +BCU Upgradation wiring	
625	720 Tie Bay of 765KV Sundargarh-Dharamjaygarh ckt-1 & 765KV NTPC Daripalli ck-2	27-04-2020	09:00	30-04-2020	18:00	OCB	ER-II/Odisha/Sundargarh	SIEMENS Centre guide valve modification work in Mechanism drive and AMP	
626	200 KV ATRI CKT-2 (208 BAY)	27-04-2020	09:00	27-04-2020	18:00	ODB	ER-II/Odisha/ Pandiabili GIS	AMP WORK (Timing, CRM and DCRM)	
627	400KV KAHALGAON MAITHON CKT 1	28-04-2020	08:00	28-04-2020	18:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in ROAD/POWERLINE/RAILWAY /RIVER Crossing	
628	A/R OF 400KV KAHALGAON -MAITHON CKT 2	28-04-2020	09:00	28-04-2020	19:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF OTHER CKT ON THE SAME TOWER	
629	125MVAR Bus Reactor-1 at New Purnea	28-04-2020	09:00	28-04-2020	18:00	ODB	POWERGRID ER-I	Relay retrofitting works IN 125MVAR Bus Reactor-1	

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