



MINUTES OF 173rd OCC MEETING

**Date: 24.11.2020
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700033**

Eastern Regional Power Committee

Minutes of 173rd OCC Meeting held on 24th November 2020

The meeting was convened through Microsoft Teams online platform. Member Secretary, ERPC chaired the meeting. The list of participants is enclosed in **Annexure A**.

PART A

Item No. A.1: Confirmation of minutes of 172nd OCC meeting of ERPC held on 19.10.2020.

The minutes of 172nd OCC meeting were uploaded in ERPC website and circulated vide letter dated 05.11.2020 to all the constituents.

Members may confirm the minutes of 172nd OCC meeting.

Deliberation in the meeting

The members confirmed the minutes of 172nd OCC meeting.

PART B: ITEMS FOR DISCUSSION

Item No. B.1 Review of System Protection Scheme (SPS) of HVDC Talcher-Kolar Bipole—NLDC.

NLDC vide letter dated 21st October 2020 informed that the SPS associated with HVDC Talcher-Kolar Bipole was implemented long back in the year 2003 as per system requirements at that time. The addition of high-capacity AC lines in the corridor parallel to this HVDC link have strengthened the ER-SR & WR-SR corridors for exchange of power to/from southern region (SR). The newly commissioned HVDC Raigarh-Pugalur Pole-I has also been commissioned recently. Presently, in cases of HVDC Talcher-Kolar Pole blocking, SPS as per design operates with load disconnection in SR and generation backing down/outage in ER.

In view of strengthening of transmission system as stated above, the scheme has been reviewed in consultation with RLDC's. The observations and the revisions proposed in SPS scheme are enclosed as **Annexure-B1**.

NLDC requested for ER constituent's view for finalization of the SPS scheme.

Members may discuss.

Deliberation in the meeting

NLDC explained the revised SPS scheme in details and pointed the out followings:

- *GMR and JITPL thermal power plants are radially connected to 765/400 kV Angul pooling station and 765/400 kV Angul station is strongly connected to western region and southern region through 765 kV lines. The tripping of HVDC Talcher-Kolar does not cause any constraint in evacuation of GMR and JITPL. Therefore, the SPS for 600 MW generation backing down at these stations would not be required and the same may be disabled.*

- During the study, it was observed that 400 kV Talcher-Meramundali D/C Lines are getting heavily loaded (beyond 874 MW) after the tripping of HVDC Talcher-Kolar in some cases. Therefore, the loading of 400 kV Talcher-Meramundali lines may also be included in the SPS logic (SPS 1000 and SPS 450) installed at Talcher STPS, NTPC. The proposed revised SPS logic in brief is as follows:

The flow on 400 kV Talcher-Meramundali-1 (or) 400 kV Talcher-Meramundali- 2 is more than 874 MW

(and)

SPS 1000 triggered (or) SPS 450 triggered

NTPC Talcher informed that, as per the existing SPS logic 800 MW generation backing down is happening by tripping one of the running unit and unloading two units by 150 MW each, when both the poles are getting blocked. NTPC requested to consider generation backing down of the generating units instead of tripping of the units.

NLDC explained that immediate response might not be achieved by generation backing down which would lead to cascade tripping of the transmission lines. Therefore, they have considered unit tripping instead of generation backing down for successful operation of SPS. NLDC further informed that since 400 kV Talcher-Meramundali Line loading has also been included in the SPS logic, chances of meeting the SPS criterion and its operation would be exceedingly rare.

SLDC Odisha informed that 400/220 kV ICTs at Meramundali S/s may get overloaded before increase in the loading of 400 kV Talcher-Meramundali Line. SLDC, Odisha requested to verify the ICT loading at Meramundali.

NLDC informed that according to the studies done for various scenarios, it was observed that the 400kV Talcher-Meramundali lines are getting overloaded first before the ICT loading. NLDC agreed to share the study details to SLDC, Odisha.

ERLDC informed that there is an issue with PLC logic which is supposed to generate the ground return mode of pole 2 at HVDC, Talcher. As a result, the SPS is not operating as per the logic.

After detailed deliberation OCC decided the following:

- The SPS logic for 600 MW generation backing down at JITPL and GMR shall be disabled at JITPL and GMR.
- All the concerned constituents shall go through SPS logic given at **Annexure-B1** and submit their comments, if any to ERPC and ERLDC within 15 days. The issues shall be placed for discussion in next OCC meeting.
- Powergrid and NTPC Talcher shall rectify the issue of PLC logic related to generation of ground return mode of pole 2 during the HVDC shutdown

Item No. B.2 Data for preparation of National Electricity Plan (NEP) 2022-27 and 2027-32.

Sub-committee 8 on "Transmission Planning" was constituted by the Committee for preparation of National Electricity Plan (NEP) 2022-27. The first meeting of the sub-Committee was held on 27.10.2020 wherein CEA requested STUs/Discoms to furnish the relevant data pertaining to their state within 30 days as per the format enclosed at **Annexure-B2**.

All states are requested to submit the relevant details to CEA with a copy to ERPC for preparation of the transmission planning. The relevant details as per the format may be send to the following mail addresses:

- cea-pspal@gov.in
- mserpc-power@nic.in

Members may note and comply.

Deliberation in the meeting

*OCC advised all the STU's and Discoms to submit the data as per the format enclosed at **Annexure-B2** to CEA and ERPC within 15 days.*

Item No. B.3 Renewal of Maintenance & Support services of PSSE license and exchange of old sentinel dongles with new Cm dongles.

The Maintenance & Support (M&S) services of the PSS®E Software which was supplied by SIEMENS Ltd. & handed over in the year 2012 has immensely facilitated sharing of information & data related to transmission system planning under ISTS as well under Intra-STs and has also helped in capacity building of the personnel involved. For continued facilitation for coordination in sharing the data for transmission system planning, POWERGRID has renewed the M&S services of PSS®E license by SIEMENS Ltd. for further 5 years starting from August, 2020 for CERC, RPCs, CEA & STUs and POWERGRID shall bear the cost of above renewal.

As per the M&S agreement, SIEMENS needs to supply new Cm dongles as an exchange to the old sentinel dongles of PSS®E, as old dongles would not work with updated PSS®E Version 35. However, new Cm dongle would work with PSS®E V34 & V33.12. A communication in this regard from SIEMENS including the details of the dongle licenses covered under the agreement is enclosed as Annexure B3 of 172nd OCC agenda document.

It is requested to provide following details to SIEMENS directly **with a copy to Powergrid** so that SIEMENS can start the dongle exchange process & supply of **PSS®E V35**.

Entity name:

Dispatch Address:

Primary contact:

Secondary contact:

Email Id:

Mobile Number:

The details of SIEMENS representatives who would be involved in the PSS®E dongle exchange process is given below:

1. Vikas Chaturvedi Mobile: +91 9654841659 Email: vikas.chaturvedi@siemens.com	Siemens Limited RC-IN SI DG SW S Plot 6A, Sector 18 Gurugram 122 015 Tel.: +91 124 6246 680 Fax: +91 124 2846 620 Mobile: +91 96548 41659
2. Hitesh Chauhan Mobile: +91 9560727765 Email: hitesh.chauhan@siemens.com	

For any further clarifications in the matter you may write to Powergrid at anilsehra@powergridindia.com & i.anupamk@powergridindia.com or may also contact directly to SIEMENS on the details provided.

In the 172nd OCC Meeting, OCC advised all the state utilities to provide the relevant details to SIEMENS with a copy to Powergrid so that they can get the new Cm dongles through courier along with the detailed procedure to return the old Cm dongles to SIEMENS.

SLDC Odisha and Bihar informed that licenses of SLDCs were not included in the list only transmission utility licenses were included in the list.

In this regard, SLDC, Odisha has already taken up the issue with CTU. Thereafter CTU vide letter 09.10.2020 informed that CTU has renewed the licenses of CERC, RPCs, CEA & STUs and POWERGRID without any liability on POSOCO.

GRIDCO vide letter dated 02.11.2020 informed that they have provided the relevant details to SIEMENS with a copy to Powergrid.

Members may discuss.

Deliberation in the meeting

SLDC Odisha informed that CTU vide letter 09.10.2020 informed that CTU has renewed the licenses of CERC, RPCs, CEA & STUs and POWERGRID without any liability on POSOCO where renewal of SLDCs PSSE licenses to be done.

OCC requested ERLDC to take up the issue with NLDC for renewable of all the SLDCs PSSE licenses.

Item No. B.4 Outage of important transmission system.

1. 400 kV Barh-Motihari D/C and 400 kV Motihari -Gorakhpur D/C lines.

In the 171st OCC Meeting, ERLDC requested DMTCL to bring one more circuit of 400kV Barh-Motihari so that reliable supply could be maintained at Motihari S/s.

DMTCL informed that they require 10 working days to restore the 2nd circuit of 400kV Barh-Motihari but because of heavy water in the river they are unable to start the work. DMTCL added that the line would be restored within 10 days as and when they get the opportunity to work.

DMTCL further informed that permanent restoration of 400 kV D/C Barh-Motihari-Gorakhpur Lines would take 5 months from the date of start of work after receding of the water level.

OCC advised DMTCL to put out all efforts to restore the line on permanent towers at the earliest.

DMTCL in a mail dated 9th Oct 2020 updated the progress of restoration work of the Barh-Motihari and Motihari-Gorakhpur line.

In the 172nd OCC Meeting, DMTCL informed that as of now there is no progress in restoration work of 400kV Barh-Motihari line-2 and 400kV Motihari-Gorakhpur lines. They are continuously monitoring the site condition and they would start the restoration work as soon as the water level recedes to working conditions.

OCC advised Sekura to start the permanent restoration work at the earliest and provide a tentative schedule for completion of work.

ERLDC also informed that SCADA data of NTPC Barh is not reporting to ERLDC.

OCC advised NTPC Barh to extend necessary help to DMTCL for providing the data to ERLDC latest by 30th Oct 2020.

NTPC agreed.

DMTCL vide mail dated 19th November 2020 updated the progress of Barh-Motihari and Barh-Gorakhpur D/C line which is given in the Annexure B4.1 of 173rd OCC Agenda document.

DMTCL, Powergrid and NTPC may update.

Deliberation in the meeting

DMTCL informed that they had resumed the work and they are planning to bring one circuit of 400kV Gorakhpur-Motihari line on ERS by 10th December 2020.

DMTCL added that they are putting all-out efforts for permanent restoration of all the four circuits by 31st Mar 2021.

Regarding the issue of SCADA data of NTPC Barh, DMTCL informed that ABB engineer would visit the site on 26th Nov 2020 to resolve the issue.

2. 400KV/220KV 315 MVA ICT-1 AT INDRAVATI.

400KV/220KV 315 MVA ICT-1 AT INDRAVATI is out from 20.02.2020 09:17 hrs. for replacement of SF6 CB.

GRIDCO may update the status of restoration of ICT-1.

Deliberation in the meeting

OHPC informed that all the related works of 315 MVA ICT-1 have been completed. The ICT would be charged after getting clearance from electrical inspector.

ERLDC requested OHPC to share the status of all breakers, isolators of 220kV and 400kV dia.

OCC advised OHPC to share the details to ERLDC.

3. 400KV NEW PURNEA-GOKARNA & 400KV NEW PURNEA-FSTPP.

400KV-NEW PURNEA-GOKARNA & 400KV-NEW PURNEA-FSTPP is out since 04/09/2020 on tower collapse due to flood in the river Ganga at tower loc no 1103. The line was charged as 400 kV Farakka – Gokarna w.e.f 09/09/2020 to increase power supply reliability to Gokarna.

Powergrid vide mail dated 26th October 2020 forwarded the restoration plan for 400KV new Purnea Gokarna and 400KV new Purnea Farakka transmission lines which is given in **Annexure B4.3**.

POWERGRID may update.

Deliberation in the meeting

Powergrid informed that the work has already been started and the line would be temporarily restored on ERS by 15th Dec 2020 and permanent restoration of lines is expected by June 2021.

Item No. B.5 Short Term and Long-Term Transmission Plan for Intra state Constraints in Bihar, Orissa, West-Bengal and DVC.

Based on January 2020-2021 Base case and real-time data, the following constraints have been observed in the State network which does not satisfy N-1 reliability criteria. The details are given below:

Transmission Lines having N-1 Reliability Issue	Present Actual Loading Observed (MW)	Loading observed in Simulation (MW)	Sensitivity of N-1 on Parallel Element	Action Plan by STU and SLDC	Remarks and Details from SLDC/STU
220 kV BTPS-Begusarai D/C	102-110	118	100 %	BSPTCL	
220 kV Bihar Sharif-Khijesarai D/C	Kept out	116	90 %	BSPTCL	

220 kV Bokaro-Ramgarh D/C	104-110	113	80 %	DVC	Following lines are under implementation by DVC: <ol style="list-style-type: none"> 1. 220 kV S/C MTPS – Ramgarh (203 Km: AAAC Zebra) 2. 220KV S/C Ranchi (PG) – Ramgarh (91 Km: AAAC Zebra) 3. 220KV S/C MTPS – Ranchi (PG) (224 Km: AAAC Zebra) These may facilitate power inflow to 220KV Ramgarh bus, which in turn reduce the flow of 220KV D/C BTPS – Ramgarh line & BTPS ICTs.
400/220 kV Bokaro ICT 1 & 2	114 (Bokaro 500 MW Unit is out)	227	50 %	DVC	
220 kV Rourkela-Tarkera D/C (Loading is low in Real time with High Injection by Vedanta)	24	120	80 %	OPTCL	
220 kV Vedanta-Buddhipadar D/C (High Loading in Injection by Vedanta)	155-160	0	100%	OPTCL	
220 kV Buddhipadar-Lapanga D/C (High loading in injection by Vedanta)	120-140	16	67 %	OPTCL	
220 kV Bakreshwar-Sadaipur D/C	115-155	116	90 %	WBSETCL	220 kV Bakreshwar-Sadaipur D/C has been upgraded to HTLS by WBSETCL. In addition, with commissioning of 400 kV Gokarno-Sagardighi D/C, loading has now reduced to 50-60 MW per circuit.
220 kV Shubhasgram-Lakshmikantpur D/C	115-120	115	100%	WBSETCL	WBSETCL intimated that Baruipur 220 kV substation was planned and now is in WIP stage, which is likely to be commissioned by October 2020.

Members may update.

Deliberation in the meeting

BSPTCL informed that the N-1 reliability issue of 220KV BTPS – Begusarai D/C & 220KV Biharshariff – Khijesarai D/C would be resolved after the commissioning of Sitamarhi S/s by February 2021.

DVC updated that within one year the new lines would be commissioned.

OCC advised Odisha to study the loading and share their action plan to ERPC and ERLDC.

WBSETCL informed that the 220kV Bakreshwar-Sadaipur D/C has been upgraded to HTLS conductor because of which the capacity has increased. Baruipur 220KV S/s would be commissioned by May 2021.

Item No. B.6 Data for preparation Load Generation Balance Report (LGBR) of ER for the year 2021-22.

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

To facilitate the preparation of LGBR of Eastern Region by ERPC Secretariat within the schedule period, the following data/information for the year **2021-22** in respect of the constituents/utilities of Eastern Region is urgently required:

- i) The unit wise and station wise monthly energy generation proposed from existing units during 2021-22 (thermal/hydro/RES).
- ii) Annual maintenance program for each of the generating units (thermal and hydro both).
- iii) Generating units under R&M / long outage indicating date of outage and reasons of outage and expected date of return (thermal and hydro both).
- iv) Partial and forced outage figures (in %) of generating units for the last 3 years.
- v) Month wise peak demand (MW) – restricted and unrestricted peak demand.
- vi) Month wise off-peak demand (MW).
- vii) Month wise energy requirement (in MU).
- viii) Month wise & source wise power (both MU & MW) purchase and/or sale plan.
- ix) Schedule of commissioning of new generating units during 2021-22 and unit-wise monthly generation program (in MU).
- x) Allocation of power from new generating units.
- xi) Month wise and annual planned outage of transmission system (Transmission lines 220kV and above / ICTs / Reactors/ other elements).

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

In the 171st OCC Meeting, OCC advised all the constituents to provide the relevant data as mentioned in the agenda to ERPC Secretariat through email (mail ID: mserpc-power@nic.in / ereb_cea@yahoo.co.in) latest by 31st Oct 2020.

LGBR data for 2021-22 has been received from WBPDC, Bihar and MPL.

In the 172nd OCC Meeting, OCC advised all the stakeholders to submit the LGBR data for the FY 2021-22 by 31st Oct 2020 to ERPC Secretariat.

JUSNL, NTPC ER-I (Farakka, Kahalgaon, Barh, Barauni), NPGCL, KBUNL, BRBCL, OHPC have forwarded the LGBR data to ERPC Secretariat.

Remaining stakeholders may update the LGBR data for the FY 2021-22.

Deliberation in the meeting

SLDC Odisha informed that they have already sent the LGBR data for the FY 2021-22.

OCC advised the remaining stakeholders to submit the LGBR data to ERPC within a week.

OCC also advised ISTS utilities to submit the annual transmission maintenance plan to ERPC within a week.

Item No. B.7 Shutdown proposal of generating units for the month of December 2020.

Generator shutdown for December 2020 is given below:

Proposed Maintenance Schedule of Thermal Generating Units of ER during 2020-21 in the month of Dec 20 (as finalised in LGBR meeting for 2020-21 held)								
System	Station	Unit	Capacity (MW)	Period		No. of Days	Reason	Revised Schedule (As given by system)
				From	To			
DVC	CTPS	8	250	08.12.20	12.01.21	36	COH	01.01.21-09.02.21
	Mejia TPS	5	250	06.12.20	31.12.20	26	BOH & Gen	01.03.21-25.03.21
ODISHA	IB TPS	1	210	01.12.20	31.12.20	30	AOH	
WBPDC	Bandel TPS	5	215	06.12.20	24.12.20	19	AOH/BOH	
	Santalidih TPS	5	250	01.12.20	10.12.20	10	Boiler License Renewal	
CESC	Budge-Budge	2	250	08.12.20	14.12.20	7	Not Specified	
	Budge-Budge	3	250	16.12.20	04.01.21	20	Not Specified	
	Titagarh	3	60	11.12.20	14.12.20	4	Not Specified	
	Titagarh	4	60	16.12.20	30.12.20	15	Not Specified	
DPL	DPPS	8	250	01.12.20	10.12.20	10	Tit bit maintenance	
IPP	MPL	1	525	15.12.20	30.01.21	45	COH	

In the 172nd OCC Meeting, ERPC Secretariat advised all the Generating utilities to plan the overhauling of the units from December 2020 to February 2021 in view of expected increase in demand from March 2021. It was also advised to take the unit shutdown in this financial year to avoid the shortfall in 2021-22.

OCC advised all the generators to take the consent from the all the beneficiaries before taking the shutdown in case of any deviation from the schedule prepared in LGBR.

Members may update.

Deliberation in the meeting

All the generators updated the schedule. The updated schedule is given below:

Maintenance Schedule of Thermal Generating Units of ER during the month of Dec 20							
System	Station	Unit	Capacity (MW)	Period		No. of Days	Reason
				From	To		
DVC	CTPS	8	250	01.01.21	09.02.21	40	COH
	Mejia TPS	5	250	01.03.21	25.03.21	25	BOH & Gen
ODISHA	IB TPS	1	210	From 1 st Jan 21		-	AOH
WBPDC	Bandel TPS	5	215	06.12.20	24.12.20	19	AOH/BOH
	Santalidih TPS	5	250	Shutdown not required		-	--
CESC	Budge-Budge	1	250	25.11.20	04.12.20	09	Survey
	Budge-Budge	2	250	Synchronised on 23.11.20		-	
	Budge-Budge	3	250	06.12.20	25.12.20	20	AOH
	Titagarh	3	60	Out of service		-	
	Titagarh	4	60	Out of Service		-	
DPL	DPPS	8	250	01.12.20	10.12.20	10	Tit bit maintenance
NTPC	Farakka	1	500	27.12.20	09.02.21	45	Boiler + DDCMIS R&M
IPP	MPL	1	525	Within 1 st or 2 nd week of Jan 21		45	COH

It was informed that BRBCL has taken the shutdown of unit-3 from 23rd Nov 2020 to 30th Dec 2020 after taking consent from all the beneficiaries.

Further, MPL informed that they are facing some issues regarding implementation of AGC. OCC advised MPL to share the communication done by them with NLDC to ERPC and ERLDC, so that ERLDC can discuss with NLDC.

Approved list of transmission elements shutdown is given in **Annexure B7**.

a) Outage of Multiple units at Kahalgaon.

Unit 3, 4, 5 & 7 and Unit 6 of Kahalgaon STPP were desynchronized from grid on 7th November and 4th November respectively due to Ash dyke problem. Only Unit 7 revived on 13th November 2020 and rests of the units are still under outage.
Members may update.

Deliberation in the meeting

NTPC informed that because of non-availability of space for ash disposal all the units were de-synchronized from the grid. On 23rd Nov 2020, unit-6 was synchronized with the grid. The remaining units would be synchronized subsequently in about one and half month.

Item No. B.8 Transmission elements outage for December 2020.

1. Reconductoring work of 400 kV Rangpo-Binaguri D/C lines.

In 167th OCC, Powergrid updated that reconductoring work of 38 km of both the circuits out of 110 km line had been completed and the line is in service.

Powergrid requested for shutdown of the line from 1st November 2020.

In the 172nd OCC Meeting, Powergrid informed that they have postponed the shutdown of 400kV Rangpo-Dikchu and 400kV Rangpo-Kishenganj lines. Shutdown of 400kV Rangpo-Binaguri D/C lines would be taken from 1st Nov 2020.

ERLDC requested Powergrid to complete the reconductoring work of one circuit at least before Monsoon for safe evacuation of hydro generation in Sikkim.

OCC advised Powergrid to submit the work plan to ERPC and ERLDC. OCC also advised Powergrid to put the SPS in service in coordination with ERLDC before taking the shutdown.

Powergrid informed that OEM is visiting Rangpo S/s on 28th Oct 2020 and they are planning to test the SPS scheme on 29th Oct 2020. Powergrid requested to test the receipt of SPS signal at generator end during the testing.

OCC advised ERLDC to coordinate with Powergrid and concerned generating utilities to conduct the testing of SPS on 29th Oct 2020.

Powergrid vide mail dated 29th Oct 2020 informed that they have successfully carried out the SPS testing at Rangpo S/s. At present the SPS is kept disabled and on 1st Dec 2020 during proposed shutdown of 400KV Rangpo-Binaguri D/C, the same shall be put in service after due consent from ERLDC. The details of the SPS testing are given in **Annexure B8**.

Powergrid also shared the status of work completed and the schedule of work to be taken gang wise for Nov 20:

Status of completed work as on: -

TOTAL LINE LENGTH (IN RKM)	110	41 RKM COMPLETED
IN PLAINS (IN RKM)	32	10 RKM COMPLETED

IN HILLS (IN RKM)	78	31 RKM COMPLETED
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Schedule of work to be taken gang wise for November-20:

GANG	Nov-20	
PLAINS- SILIGURI	4	LOC- 288 TO 301
MIRIK- DARJELING HILLS	1.3	LOC-203 TO 198
SUKHIA -DARJELING HILLS	1.2	LOC- 139 TO 144
SUKHIA -DARJELING HILLS	1.2	LOC- 178 TO 174
GOKE- DARJELING HILLS	1.5	LOC -100 TO 103
SIKKIM HILLS-1	1.3	LOC- 40 TO 44
SIKKIM HILLS-2	1.2	LOC- 64 TO 67
SIKKIM HILLS-3	1.2	LOC- 69 TO 73

Powergrid may update.

Deliberation in the meeting

Powergrid gave a presentation regarding progress of reconductoring work of 400 kV Rangpo-Binaguri D/C lines.

Powergrid was advised to prepare the list shutdown required for the line crossing and submit in advance to ERPC & ERLDC so that it could be discussed with concerned constituents.

2. Shutdown request by Adani Power limited.

SL. NO.	NAME OF THE ELEMENTS	FROM DATE	FROM TIME (HRS)	TO DATE	TO TIME (HRS)	REMARKS	S/D AVAILED BY
1	400 KV RAJARHAT – PURNIA, LILO at FARAKKA TRANSMISSION LINE	15.12.2020	09:00	15.12.2020	17:00	ODB	ADANI POWER (JHARKHAND) LTD, for line crossing of 400 kV D/C TL dedicated APJL (Godda) – Bangladesh border.
2	400 KV D/C KAHALGAON-MAITHAN TRANSMISSION LINE	23.12.2020	09:00	23.12.2020	17:00	ODB	ADANI POWER (JHARKHAND) LTD, for line crossing of 400 kV D/C TL dedicated APJL (Godda) – Bangladesh border.

Deliberation in the meeting

ERLDC informed that Adani Power Ltd. Is neither a transmission Licensee nor a constituent of Eastern Region. Therefore, they cannot place the shutdown request directly and they have to approach the owners of the transmission lines (i.e., Powergrid and WBSETCL). The respective transmission line owners may apply the shutdown.

After detailed deliberation, OCC advised Adani Power to apply their shutdown requisition through Member (Power System), CEA (the Designated Authority for CBTE) since the subjected line construction work pertains to cross border trade of electricity.

3. Shutdown request by WBPDCCL for carrying maintenance works at 400kV Sagardighi S/s.

Deliberation in the meeting

ERLDC informed that they are not having any reliability issues with this shutdown and advised WBPDCCL to reschedule out the maintenance activities of 400kV Sagardighi-Jeerat line while the line is under outage for construction related works.

4. Any other shutdown requests as discussed in the shutdown meeting held on 18th November 2020.

Deliberation in the meeting

Shutdown of 132 kV Rangit-Rangpo and Rangpo-Gangtok-2 lines:

Powergrid informed that shutdown of 132 kV Rangit-Rangpo and Rangpo-Gangtok-2 lines was required for three months (approx.) to carry out the rectification work of multi-circuit tower for 132 kV Rangit-Rangpo and 132kV Rangpo-Gangtok-2 lines at location no 21.

Sikkim informed that reliability of power supply at Gangtok would be compromised on outage of above lines. Sikkim requested for an interim arrangement to provide uninterruptable power supply to Gangtok.

OCC decided that the healthy parts of 132 kV Rangit-Rangpo and 132kV Rangpo-Gangtok-2 lines could be joined together at a suitable point to form a direct 132kV line from Rangit to Gangtok as an interim arrangement to ensure reliable supply to Gangtok during the prolonged shutdown period.

Shut down of 315 MVA ICT-3 of Malda S/s

POWERGRID informed that they had requested for shut down of 315 MVA ICT-3 of Malda SS, for upgradation work under ERSS-XVII for 90 days.

SLDC, West Bengal informed that they can not allow the shutdown of 315 MVA ICT-3 of Malda SS for such a long period as the ICT is extremely important for meeting the demand at Malda area. SLDC, West Bengal informed that they could allow the shutdown of the ICT for maximum 40 days considering the increase in demand by January 2021. SLDC, West Bengal added that the shutdown would be allowed after returning of the existing shut down of 400 KV TBC.

SLDC, West Bengal explained that shut down of 220 KV TBC & 400 KV TBC was taken earlier and in both the cases, elements were not returned in time (for 220 KV TBC almost 05 months and 400 KV TBC still under shutdown since end of January-2020). They informed that shutdown of 315 MVA ICT-3 of Malda should not be extended more than 40 days.

After detailed deliberation the following decisions were taken:

- Powergrid shall properly plan their activities to complete the work within 40 days and the ICT shall be back into service in time.
- Powergrid shall update the progress on weekly basis to ERPC and ERLDC.
- The progress of the work shall be monitored in OCC meetings and site visit may be undertaken, if required.

- *Final concurrence for 315 MVA ICT-3 of Malda shut down would be given by SLDC, West Bengal/ERLDC based on real time grid conditions.*

5. Submission of transmission elements outage requests for approval of OCC.

All the constituents are requested to submit the transmission elements outage requests and outage related issues to the following new mail id of ERPC Secretariat with a copy to ERLDC:

- **outage.erpc@gov.in**

Members may note.

Deliberation in the meeting

Members noted.

Item No. B.9 Preparedness for upcoming winter season. ---ERLDC.

During the winter season Eastern Region witness a different set of problem of high voltage throughout the network, caused by fall in demand as well as reduction of fault level due to outage of powerplants.

The following measures are suggested to maintain the reliability of the Grid:

- 1) Transmission licenses
 - a) May carry out pre-winter maintenance of their respective transmission lines on urgent basis & if necessary, wash the insulators of their lines passing through N. Bihar, Jharkhand, N. Bengal, which are prone to fog / smog.
 - b) Maintenance of bus/line rectors and STATCOM s may be avoided.
- 2) Generating Station
 - a) Absorb MVAR up to it capability limit, to ensure that terminal voltage remain close to rated voltage
 - b) GT Tap may be changed to maximize MVAR absorption
 - c) Submit unit-wise MVAR (GT primary side) values at 30 minutes resolution ON DAILY BASIS to ERLDC, so that we are able to monitor their performances without any ambiguity.
- 3) SLDC
 - a) To switch off shunt capacitors in their respective systems, wherever installed, or maintain minimum capacitor in service, depending upon the local MW & MVAR demand.
 - b) In case any intrastate line is switched off to control the high voltage, list of same to be sent to ERLDC on daily basis
 - c) In case when more than one line is available between two substation and one line is switched off to control high voltage. The line may be swapped at regular interval (not more than 7 days) to ensure the healthiness of lines.
 - d) Do Tap optimization of all intrastate ATRs for proper VAr distribution

Members may discuss.

Deliberation in the meeting

maintain the reliability of the grid.

Item No. B.10 Submission of Transmission System Availability Factor (TAF_{Pn}) by transmission companies. –ERLDC.

ERLDC vide letter no: ERLDC/SO/2019/173/1270 dtd. 28/09/2020 advised all ISTS licensees of Eastern Region to provide Transmission System Availability Factor (TAF_{Pn}) of each AC & HVDC elements separately along with the monthly outage file, as mandated by Para-1 of Appendix-II of CERC Terms & Conditions of tariff regulation 2019-24. However, no ISTS licensee has sent the same with outage file of September and October -2020. The mentioned para of CERC Terms & Conditions of tariff regulation 2019-24 is as follows:

“Transmission system availability factor for nth calendar month (“TAF_{Pn}”) shall be calculated by the respective transmission licensee, got verified by the concerned Regional Load Dispatch Centre (RLDC) and certified by the Member-Secretary, Regional Power Committee of the region concerned, separately for each AC and HVDC transmission system and grouped according to sharing of transmission charges.”

Powergrid, Powerlink, CBPTCL, ATL, ENICL, PKTCL, OGPTL, DMTCL & TPTL may please explain.

Deliberation in the meeting

OCC advised all the ISTS licensees to submit the TAF_{Pn} data as per the CERC tariff regulations 2019-24.

Item No. B.11 Submission of end-wise reliability indices –ERLDC.

ERLDC by email dtd. 13.08.2020 advised all ISTS licensees of Eastern Region to provide end-wise reliability-indices in place of the prevalent practice of line-wise reliability indices, as ERLDC is facing problem in calculating various indices in absence of both end data. However, no ISTS licensee has sent the same for September and october-2020.

Powergrid, Powerlink, CBPTCL, ATL, ENICL, PKTCL, OGPTL, DMTCL & TPTL may explain.

Deliberation in the meeting

After brief deliberation, OCC advised ERLDC to submit a brief detailed note on the above agenda so that it could be discussed in next OCC meeting.

PART C: ITEMS FOR UPDATE

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

In the 172nd OCC Meeting, OCC advised all the constituents to update the status of UFR healthiness data on monthly basis by 7th of every month.

Jharkhand, DVC, West Bengal and Bihar forwarded the UFR status for the month of Oct 2020.

Members may update.

Deliberation in the meeting

It was informed that UFR healthiness details have been received by CESC.

OCC advised Odisha to send the UFR healthiness details to ERPC on monthly basis.

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

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

Details received from the constituents is as follows:

Sl. No	Name of Islanding Scheme	Confirmation from Generator utility	Confirmation from Transmission and load utility
1	CESC as a whole Islanding	Healthy	Healthy
2	BKTPS Islanding Scheme	Healthy	
3	Tata Power Islanding Scheme, Haldia	Healthy	Healthy
4	Chandrapura TPS Islanding Scheme, DVC	Not in service	
5	Farakka Islanding Scheme, NTPC	Healthy	Healthy
6	Bandel Islanding Scheme, WBPDC	Healthy	

Members may update.

Deliberation in the meeting

ERLDC informed that they have received clarifications from DVC regarding CTPS Islanding scheme.

OCC decided to discuss the islanding schemes of MTPS and CTPS in a special meeting.

Item No. C.3: Primary Frequency Response Testing of Generating Units—POSOCO.

NLDC vide letter dated 10th August 2020, communicated a procedure to be considered for Commercial Settlement during onsite testing of generators for Primary Response of regional generating units.

On 10th Sep 2020, a meeting was held between ERPC, ERLDC, SLDC's and all regional generating stations wherein M/S Solvina gave a presentation on the details of Primary frequency response testing and the steps to be followed in the procedure.

Further all the members clarified their doubts, and it was decided that the remaining generators who have not placed their LOA with M/S Solvina should place it at the earliest.

In the 171st OCC Meeting, it was informed that M/s Solvina gave a presentation on 10th Sep 2020 and explained the procedure. The presentation has been shared with the constituents.

It was also informed that this issue of commercial settlement mechanism has been discussed and finalized in the Commercial Committee Meeting held on 21st September 2020.

Further ERLDC informed that they have communicated to NTPC, Adhunik and BRBCL regarding placement of LOA with M/s Solvina.

ERLDC informed that LOA with M/s Solvina from BRBCL and Teesta-III and LOA with M/s Siemens from GMR is still pending from Eastern Region.

In the 172nd OCC Meeting, OCC advised all the generators to submit their testing plan well in advance to ERLDC so that they could check the feasibility of the testing.

Respective generators may update.

Deliberation in the meeting

NTPC informed that Farakka has already planned to carry out the test on 1st of Feb 2021. Kahalgaon is planning to carry out test after 15th Jan 2021 and BRBCL is planning to carry out the test after Dec 2020.

MPL informed that they have placed the order with Siemens and the dates for testing would be finalized in coordination with ERLDC and Siemens.

OCC further, advised all the other Generators, especially the Hydro-Electric Plants to plan the Primary Frequency Response Testing in the winter season.

ERLDC informed that vendor Siemens is ready to give a presentation on the testing procedure.

OCC decided to arrange a special meeting on the testing procedure.

Item No. C.4: Testing of primary frequency response of state generating units by third party agency--ERLDC

The Hon'ble Central Electricity Regulatory Commission (CERC), vide notification dated 12th April 2017, had notified Indian Electricity Grid Code (Fifth Amendment) Regulations, 2017. As per this notification, following provision has been added at the end of Regulation 5.2 (g) of Part 5 of the Principal Indian Electricity Grid Code (IEGC) Regulations: "Provided that periodic checkups by third party should be conducted at regular interval once in two years through independent agencies selected by RLDCs or SLDCs as the case may be. The cost of such tests shall be recovered by the RLDCs or SLDCs from the Generators. If deemed necessary by RLDCs/SLDCs, the test may be conducted more than once in two years."

In compliance of IEGC, process of testing of primary frequency response of regional generating units (eligible for RGMO as per IEGC section 5.2 (f)) has been started by POSOCO.

In the 170th OCC Meeting, ERLDC informed that as per the regulation, testing of primary frequency response of state generators by a third party is required to be undertaken by the respective SLDC's. Thereafter, SLDC Odisha informed that they have not finalized a plan yet, but they will communicate the detailed plan to ERPC by 15th Sep 2020.

OCC then advised all the SLDC's to prepare an action plan for their state generators having capacity of 200 MW or more and submit the details to ERLDC and ERPC within a week.

In the 171st OCC Meeting, OCC advised all the SLDC's to prepare the action plan for their state generators and submit the details to ERPC and ERLDC at the earliest.

DVC in a mail dated 6th Oct 2020 informed that the Primary Frequency Response Testing may be carried out for the following generating units:

Sl. No.	Name of the Units	Capacity (MW)
1	BTPS-A	500
2	CTPS Unit #7&8	2X250
3	DSTPS Unit#1&2	2X500
4	KTPS Unit # 1&2	2X500
5	MTPS Unit # 3 to 8	2 X 210 MW +2 X 250 MW + 2X 500 MW
6	RTPS Unit # 1 & 2	2 X 600 MW

However, at present the Primary Frequency Response Testing may not be possible for the following units of DVC:

Sl. No.	Name of the Units	Capacity (MW)	Remarks
1	BTPS-B U#3	210	The Governing system is of the Hydro-mechanical type and the Control system is a Solid-state Hardware/Relay based system.
2	DTPS U#4	210	The Governing system is of the Hydro-mechanical type and the Control system is a Solid-state Hardware/Relay based system
3	MTPS Unit # 1&2	2X210	C & I system of Unit 1 & 2 are originally supplied with a Solid-state Hardware-based system for SG & TG Package which is lacking in scalability and flexibility and the BOP Package is supplied with a primitive DCS system.

In the 172nd OCC Meeting, ERLDC requested DVC to submit a detail explanation on inability to conduct the testing of BTPS-B unit # 3, DTPS U#4 and MTPS U # 1 & 2.

SLDC Odisha informed that they would contact OPGC and submit a plan to ERPC and ERLDC at the earliest.

WBPDCCL informed that they have contacted with SLDC West Bengal regarding preparation of plan and submission to ERPC and ERLDC.

ERLDC also informed that nomination of nodal person regarding RGMO and tripping analysis has also not been received from SLDC West Bengal.

Representative from SLDC, West Bengal was not present in the meeting.

DVC OS & U may update. Other SLDC's may place their plan.

Deliberation in the meeting

OPGC informed that for unit # 3 & 4, the order has been placed with M/s Siemens and approval is in process.

OHPC informed that in concurrence to a meeting held with SLDC Odisha, they have planned to carry out the test at one unit of Indravati.

West Bengal informed that they are in discussion with their generators to carry out the primary Frequency response Testing.

Item No. C.5: Transfer capability determination by the states.

Latest status of State ATC/TTC declared by states for the month of January-2021.

SL. No	State/Utility	TTC (MW)		RM(MW)		ATC Import (MW)		Remark
		Import	Export	Import	Export	Import	Export	
1	BSPTCL	5100	--	102	--	4998	--	Jan-21
2	JUSNL	1493	--	52	--	1441	--	Jan-20
3	DVC	1464	2870	63	50	1410	2820	Dec-20
4	OPTCL	2251	1432	74	54	2177	1378	Jan-20
5	WBSETCL	4851	--	400	--	4451	--	Nov-20

6	Sikkim	266	--	2.5	--	263.4	--	Dec-20
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Declaration of TTC on Website:

Sl. No	State/Utility	Declared on Website	Website Link	Constraint Available on Website
1	BSPTCL	Yes	http://www.bsptcl.in/ViewATCTTCWeb.aspx?GL=12&PL=10	Yes
2	JUSNL	Yes	http://www.jusnl.in/pdf/download/ttc_atc_nov_2020.pdf	Yes
3	DVC	Yes	https://application.dvc.gov.in/CLD/atcttcmenu.jsp#	Yes
4	OPTCL	Yes	https://www.sldcorissa.org.in/TTC_ATC.aspx	Yes
5	WBSETCL	Till Feb 20	Website Down	No
6	Sikkim	No	—	No

Members may update.

Deliberation in the meeting

ERLDC informed that they have received the ATC/TTC values for the month of December 2020 from West Bengal.

OCC advised West Bengal to update the ATC/TTC figures available on their website.

Item No. C.6: 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 Oct 2020		Second Week of Feb 2021	
2	Balimela	Second week of Nov 2020		First Week of March 2021	
3	Rengali	Second week of Nov 2020		First Week of March 2021	
4	Burla	Second week of Nov 2020		First Week of March 2021	
5	U. Indravati	Last week of Oct 2020		Second Week of Feb 2021	
6	Maithon	Third Week of Nov 2020		First Week of March 2021	
7	TLDP-III	Second week of Nov 2020		Second Week of Feb 2021	
8	TLDP-IV	Third Week of Nov 2020		First Week of March 2021	
9	Subarnarekha	Second week of Nov 2020		Second Week of Feb 2021	
10	Teesta-V	Third Week of Nov 2020		Third Week of March 2021	
11	Chuzachen	Second week of Nov 2020		First Week of March 2021	

12	Teesta-III	Third Week of Nov 2020		First Week of March 2021	
13	Jorethang	Third Week of Nov 2020		First Week of March 2021	
14	Tasheding	Second week of Nov 2020		First Week of March 2021	
15	Dikchu	Second week of Nov 2020		Second Week of Feb 2021	

In 172nd OCC Meeting, OHPC informed that they have interacted with SLDC Odisha and are planning to start the mock black exercise after rainy season. For Balimela HPS, black start exercise would be conducted on 20th Oct 2020. OCC advised OHPC to inform ERPC and ERLDC regarding their plan for conduct of black start exercise.

SLDC Odisha vide mail dated 18th Nov 2020 informed that the mock black start exercise at Rengali P.H. is going to be conducted on 23rd Nov 2020.

Members may update.

Deliberation in the meeting

Odisha informed that they have successfully carried out the mock black start exercise at Rengali P.H. on 23rd Nov 2020.

OCC advised all the generators to submit their plan of mock black start exercise for the month of December 2020.

Item No. C.7: Multiple outages of Isolators & Circuit Breakers at Ramchanderpur S/S (JUSNL)—ERLDC.

In the 172nd OCC Meeting, JUSNL informed that work related to main bus-2 and transformer breaker of 220KV system is pending and work of 132KV line has been completed. By end of Nov 2020 they would be able to complete the work related to 220KV system.

OCC advised JUSNL to complete the work at the earliest.

JUSNL may update.

Deliberation in the meeting

JUSNL informed that they would complete the work related to 220KV system by the end of December 2020.

OCC advised JUSNL to complete the work at the earliest.

Item No. C.8: Monthly Data on Category-wise consumption of electricity in States/UTs---CEA.

CEA vide mail informed that Hon'ble MoSP(IC) has desired the month-wise category-wise consumption data in the various States/UTs from April,2019 to July 2020. CEA requested all the concerned utilities of States to furnish the data at the earliest.

Details are yet to be received from West Bengal, Jharkhand and Sikkim.

Members may update.

Deliberation in the meeting

Jharkhand informed that they would send the data to ERPC by 25th Nov 2020.

West Bengal informed that they are not able to get the category-wise consumption data from their distribution counterpart.

Item No. C.9: Operationalizing Bus splitting at Bihar Shariff—ERLDC.

Bus split arrangement at Bihar Shariff was already commissioned, however it was not put in service as split bus arrangement was causing uneven loading in 400/220 kV ICTs at Bihar Shariff. Thus, earlier it was decided that the same will be put in service after commissioning of 4th ICT at Bihar Shariff. 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 Bihar Shariff 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 Bihar Shariff was 560 MW and Bihar demand 4650MW.
- If we consider summer peak case having 6000 MW Bihar demand with 660 MW Bihar Shariff ICTs loading, N-1 contingency of 500 MVA ICT-IV leads to 301 MW loading on ICT –II (315 MVA rating).

In 169th OCC Meeting, ERLDC informed that Bihar had submitted a report wherein Bihar agreed for the implementation of bus-split arrangement.

Further, ERLDC added that Bihar has to make load shedding scheme to avoid the tripping of 315 MVA ICT on overload during tripping of 500 MVA ICT.

Thereafter, OCC opined that depending on the power flows after putting the bus splitting scheme in service, the SPS scheme should be decided.

OCC then advised Powergrid to make necessary changes in protection settings for implementation of the bus-split arrangement and to coordinate with remote end sub-stations. OCC further, advised Powergrid to intimate a suitable date to ERLDC for putting the bus splitting scheme in service at Bihar Shariff.

In the 170th OCC Meeting, Powergrid informed that they have computed the protection settings for split mode operation and forwarded to their corporate office for review and comments. Powergrid added that they will update status as soon as they receive the information from their corporate office.

In the 171st OCC Meeting, ERLDC informed that Powergrid had confirmed that there is no requirement of putting a group-II settings for this bus splitting at the remote end substations of Powergrid.

ERLDC added that Bihar has to make a load shedding scheme to avoid the tripping of 315 MVA ICT on overload during tripping of 500 MVA ICT.

OCC advised SLDC, Bihar to prepare a plan for the load shedding scheme to avoid unwanted tripping of 315 MVA ICT and submit to ERPC and ERLDC. The scheme would be discussed in the upcoming PCC meeting.

OCC advised ERLDC to interact with Powergrid and finalize a date for implementation of the bus splitting scheme.

ERLDC mentioned that even after reminders and communication in OCC/PCC meeting, it is observed that no load trimming scheme has been shared by Bihar SLDC and BSPTCL so far. It may kindly be seen that any equipment damage at Bihar Shariff due to high fault level will be attributable to delays from respective utility end due to non-implementation of bus-split scheme SLDC.

In the 172nd OCC Meeting, OCC advised Bihar to share the plan for load trimming scheme with

ERLDC at the earliest.

OCC decided to put the Biharsariff bus splitting scheme in service on 12th Nov 2020.

Members may update.

Deliberation in the meeting

*ERLDC informed that bus splitting scheme was put in operation on 18th November 2020 and the bus coupler was closed on 19th November 2020. The actual power flows are given at **Annexure-C9**.*

Bihar informed that uneven power flow through the ICTs was observed and they are in process of implementation of load trimming scheme.

OCC advised Bihar to send their queries, if any to ERPC and ERLDC within a week. OCC also advised Bihar to implement the load trimming scheme to avoid unwanted tripping of the transformers on overload.

Item No. C.10: ER Grid performance during October 2020.

The average and maximum consumption of Eastern Region and Max/Min Demand (MW), Energy Export for the month October – 2020 were as follows:

Average Consumption (Mu)	Maximum Consumption(mu)/ Date	Maximum Demand (MW)	Minimum Demand (MW)	Schedule Export	Actual Export
		Date/Time	Date/Time	(Mu)	(Mu)
445.6	490 MU 17-10-2020	23242 MW 20-10-2020 18:29	13270 MW 26-10-2020 16:05	3497.3	3370.8

ERLDC may present Performance of Eastern Regional Grid.

Deliberation in the meeting

*The presentation on performance of Eastern regional Grid is given in **Annexure C10**.*

Item No. C.11: Performance primary frequency response of generating stations in Eastern Region for the event in the month of October 2020.

Frequency response characteristics (FRC) have been analyzed pan India for one event of sudden frequency change that occurred in October 2020. The details of this event and the overall response of the Eastern region have been summarized in following table.

Event	Frequency Change	ER FRC
Event 1: On 12th October 2020 at 10:05:04.280 hrs, 2600MW load loss and 1060 MW generation loss (Net load loss 1540) occurred at Mumbai in WR.	50.054 Hz to 50.277 Hz. Later stabilized at 50.155 Hz.	18 %

Summary of the response of regional generating stations/SLDCs are given in following table.

Generating Station/ SLDC	Response observed
NTPC Farakka	Unit 4 and 5 were running at Technical Minimum. Unit 6's output was being ramped down prior to the event.
NTPC Kahalgaon	Response of unit 3 was Satisfactory; Unit 1 & 6 were under shutdown. Response of unit 2, 4, 5 & 7 are non-satisfactory
NTPC Talcher	Non-Satisfactory.
NTPC Barh	Satisfactory (as per FRC calculated from ERLDC SCADA data)
NTPC Darlipalli	Non-Satisfactory (as per FRC calculated from ERLDC SCADA data)
BRBCL	Non-Satisfactory.
NPGC Nabinagar	Satisfactory
GMR	Non-Satisfactory.
JITPL	Non-Satisfactory.
MPL	Non-Satisfactory. Unit 2 was being run at technical minimum. Unit 1 was being run at VWO.
Adhunik	Non-Satisfactory
Teesta V HEP	Non-Satisfactory (as per FRC calculated from ERLDC SCADA data)
Teesta III HEP	Non-Satisfactory (as per FRC calculated from ERLDC SCADA data)
Dikchu HEP	Satisfactory
Bihar SLDC	Non-Satisfactory (as per FRC calculated from ERLDC SCADA data)
Jharkhand SLDC	Satisfactory
DVC SLDC	Non satisfactory
GRIDCO SLDC	Non satisfactory
WB SLDC	Non-Satisfactory (as per FRC calculated from ERLDC SCADA data)

Reason for non-satisfactory response may be explained.

Generator end data/FRC are yet to be received from following generating stations/SLDCs

1. NTPC Barh
2. NTPC Darlipalli
3. Teesta V
4. Teesta III
5. Bihar SLDC
6. WB SLDC

Reason for non-sharing of generator end data/FRC may be shared.

Deliberation in the meeting

OCC advised all the generators and SLDC's to share the FRC data with ERLDC as soon as the event occurs.

PART D: OPERATIONAL PLANNING

Item No. D.1: Anticipated power supply position during December 2020.

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of December 2020 were prepared by ERPC Secretariat on the basis of LGBR for 2019-20 and feedback of constituents, keeping in view that the units are available for generation and expected load growth etc. is enclosed at **Annexure D1**.

Members may confirm.

Deliberation in the meeting

*The updated anticipated power supply position is enclosed in **Annexure D1**.*

OCC advised all the state utilities to submit the load and generation details of CPPs in their control area to ERPC and ERLDC within a week.

Item No. D.2: Major Generating Units/Transmission Element outages/shutdown in ER Grid (as on 16.11.2020).

SL. No	Station	State	Agency	Unit No	Capacity MW	Reason(s)	Outage Date
1	BAKRESHWAR	WEST BENGAL	WBPDC	3	210	FOR OVER HAULING JOB	04-11-20
2	BUDGE-BUDGE	WEST BENGAL	CESC	2	250	annual survey	16-11-20
3	CHANDRAPURA TPS	DVC	DVC	3	130	TURBINE BLADE DAMAGE	30-07-17
4	KOLAGHAT	WEST BENGAL	WBPDC	1	210	POLLUTION PROBLEM	10-05-18
5	KOLAGHAT	WEST BENGAL	WBPDC	2	210	ESP FIELD MAINTENANCE	26-12-19
6	ADHUNIK	JHARKHAND	APNRL	1	270	ASH EVACUATION PROBLEM AND ESP HOPPER LEVEL HIGH	27-10-20
7	FSTPP	WEST BENGAL	NTPC	2	200	GENERATOR ELECTRICAL PROTECTION	14-09-20
8	JITPL	ODISHA	JITPL	2	600	GENERATOR ELECTRICAL PROTECTION	25-09-20
9	KHSTPP	BIHAR	NTPC	3	210	Ash dyke problem	07-11-20
10	KHSTPP	BIHAR	NTPC	4	210	Ash dyke problem	07-11-20
11	KHSTPP	BIHAR	NTPC	5	500	Ash dyke problem	07-11-20
12	KHSTPP	BIHAR	NTPC	6	500	Ash dyke problem	04-10-20
13	NABINAGAR(NPG C)	BIHAR	NPGC	1	660	Suspected Condenser Tube Leakage	15-11-20
14	DPL	WEST BENGAL	WBPDC	8	250	NON-AVAILABILITY OF ASH BOWSER AND HIGH ASH SILO LEVEL	24-10-20
15	DSTPS	DVC	DVC	2	500	Annual Overhauling	14-11-20
16	OPGC3	ODISHA	OPGC	3	660	ASH EVACUATION PROBLEM	05-09-20
17	SAGARDIGHI	WEST BENGAL	WBPDC	2	300	AUXILLARY SUPPLY FAILED	18-03-20
18	SAGARDIGHI	WEST BENGAL	WBPDC	3	500	Turbine Vibration Very High	15-11-20

All Generating stations are requested to update expected restoration time and reason outage if any

change. Same need to be informed ERLDC/ERPC on weekly basis also.

Major Generating stations Out on Reserve Shutdown due to low system demand

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

SL. No	Station	State	Agency	Unit No	Capacity MW	Reason(s)	Outage Date
1	FSTPP	WEST BENGAL	NTPC	1	200	LOW SYSTEM DEMAND/RSD	23-10-20
2	BARAUNI TPS	BIHAR	BSPHCL	7	110	RSD/ LOW SYSTEM DEMAND	28-05-20
3	BARAUNI TPS	BIHAR	BSPHCL	8	250	RSD/LOW SYSTEM DEMAND	28-10-20
4	KOLAGHAT	WEST BENGAL	WBPDC	3	210	RSD/LOW SYSTEM DEMAND	13-06-20
5	KOLAGHAT	WEST BENGAL	WBPDC	4	210	RSD/ LOW SYSTEM DEMAND	15-07-20
6	KOLAGHAT	WEST BENGAL	WBPDC	6	210	RSD/LOW SYSTEM DEMAND	16-01-20
7	MEJIA TPS	DVC	DVC	3	210	RSD/LOW SYSTEM DEMAND	08-11-20
8	MUZAFFARPUR TPS	BIHAR	BSPHCL	1	110	INITIALLY BTL LATER OUT DUE TO RSD/ LOW SYSTEM DEMAND	10-08-20
9	MUZAFFARPUR TPS	BIHAR	BSPHCL	2	110	INITIALLY BTL LATER OUT DUE TO RSD/ LOW SYSTEM DEMAND	15-08-20

Hydro Unit Outage report:

SL. No	Station	State	Agency	Unit No	Capacity MW	Reason(s)	Outage Date	Expected Restoration date
1	BALIMELA HPS	ODISHA	OHPC	1	60	R & M WORK	05-08-16	27.01.2021
2	BALIMELA HPS	ODISHA	OHPC	2	60	R & M WORK	20-11-17	31.01.2021
3	BURLA HPS/HIRAKUD I	ODISHA	OHPC	1	49.5	R & M WORK	14-03-18	31.12.2020
4	BURLA HPS/HIRAKUD I	ODISHA	OHPC	5	37.5	R & M WORK	25-10-16	31.05.2021
5	BURLA HPS/HIRAKUD I	ODISHA	OHPC	6	37.5	R & M WORK	16-10-15	31.05.2021
6	BURLA HPS/HIRAKUD I	ODISHA	OHPC	7	37.5	ANNUAL MAINTENANCE	06-12-19	31.12.2020
7	BALIMELA HPS	ODISHA	OHPC	4	60	SPARKING IN PMG	02-03-20	-
8	U. KOLAB	ODISHA	OHPC	3	80	GUIDE BEARING TEMPERATURE HIGH	07-01-20	-

It is seen that about 422 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.

Line Long Outage Report:

SL. No	Transmission Element / ICT	Agency	Outage DATE	Reasons for Outage
1	400 KV IBEUL JHARSUGUDA D/C	IBEUL	29-04-2018	TOWER COLLAPSE AT LOC 44,45
2	220/132 KV 100 MVA ICT I AT LALMATIA	FSTPP/JU SNL	22-01-2019	Failure of HV side breaker
3	400KV/220KV 315 MVA ICT-1 AT INDRAVATI	OPTCL	20-02-2020	REPLACEMENT OF SF-6 CB

4	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. Presently charged from Pandiabili end (loc 156) to loc 58
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 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	Earlier reconfigured Barh - Gorokpur # II again LILOED back at Motihari and the portion beyond Motihari shall be termed as 400 KV MOTIHARI(DMTCL)-GORAKHPUR-II
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	220/132 KV 100 MVA ICT 3 at Chandil	JUSNL	30-04-2020	ICT BURST AND DAMAGED AFTER FIRE REPORTED
9	132 KV NEW KISHANGANJ - BARSOI S/C	BSPTCL	02-07-2020	Out due to heavy soil erosion at loc no 140 and 141 by river Kankai. line charged as 132 KV Purnea (PG) - Barsoi w.e.f 21.07.20 at 19:05 Hrs temporarily by suitable jumper arrangement at the crossing point of 132 kV Kisanganj(New) - Barsoi and 132 kV Purnea(PG) - Kisanganj (old).
10	132KV-PURNEA (PG)-KISHANGANJ(OLD) S/C	BSPTCL	02-07-2020	
11	220kV Barauni-Hajipur Ckt-1	BSPTCL	28-09-2019	Tower collapse at location 38 & 39. Ckt-2 is on ERS since 13.01.2020.
12	400KV-NEW PURNEA-GOKARNA	PGCIL	04-09-2020	To attend and avoid tower collapse situation due to continuous erosion due to flood in the river Ganga at tower loc no 1103
13	400KV-NEW PURNEA-FSTPP	PGCIL	04-09-2020	
14	220kV HAJIPUR-AMNOUR-1	BSPTCL	05-08-2020	220/132/33KV Amnour GIS substation of BGCL under SLDC Bihar was switched off at 02:19 hrs on 05.08.20 due to Flood by opening both the 220 kV lines.
15	400KV-BINAGURI-TALA-4	PGCIL/BHUTAN	02-11-2020	To replace old porcelain insulator of tower TPS-06;TPS-07;TPS-18 & TPS-19.
16	400KV-TALA-MALBASE	PGCIL/BHUTAN	27-10-2020	AMP Work by Bhutan upto 27/11/2020
17	765 KV ANGUL-JHARSUGUDA III	PGCIL	17-11-2020	Voltage Regulation
18	400KV-BINAGURI-RANGPO-1	PGCIL	01-11-2020	Re-conductoring work from twin moose to HTLS.
19	400KV-BINAGURI-RANGPO-2	PGCIL	01-11-2020	

20	800KV HVDC ALIPURDUAR-AGRA-POLE-III	PGCIL	05-11-2020	Voltage Regulation, 423/423 KV, OPENING CODE OF NLDC/372, NRLDC/932
21	400KV-BINAGURI-MALBASE	PGCIL/BHUTAN	09-11-2020	Bus testing works at Malbase BY BHUTAN UPTO 24.11.20
22	765KV-JHARSUGUDA-RAIPUR PS (DURG)-2	PGCIL	12-11-2020	Voltage Regulation
23	400KV/220KV 315 MVA ICT 5 AT MALDA	PGCIL	16-11-2020	Replacement of 52 kV Y-Ph Bushing on account of Tandelta Violation at Malda

As per long outage list, most of the important grid elements, inter-state as well as intra-state, are under outage for long time due to tower collapse and other issues.

Transmission licensees/ Utilities are requested to update expected restoration date & work progress regarding restoration regularly to ERLDC/ERPC on monthly basis by 5th of each month so that status of restoration can be reviewed in OCC. Utilities are also requested to update outage of any elements within their substation premises like isolator/breaker to ERLDC/ERPC regularly. (Reported as per Clause 5.2(e) of IEGC)

Members may update.

Deliberation in the meeting

DVC informed that Chandrapur unit 3 has been decommissioned and Mejia unit 3 has been synchronized on 9th November 2020.

Item No. D.3 Commissioning of new units and transmission elements in Eastern Grid in the month of October 2020.

The details of new units/transmission elements commissioned in the month of October-2020 based on the inputs received from beneficiaries:

SL. No	Element Name	Owner	Charging Date	Charging Time	Remarks
1	400kV Sagardighi – Gokarna-I	WBSETCL	27-10-2020	00:40	
2	400kV Sagardighi – Gokarna- II	WBSETCL	28-10-2020	18:09	
3	Anti-theft charge of 765kV New Ranchi-Medinipur Ckt 2 with LR	PMJTL	24-10-2020	18:42	Upto 18.9kM from New Ranchi end
4	Anti-theft charge of 765kV New Ranchi-Medinipur Ckt 1 with LR	PMJTL	28-10-2020	16:13	Upto 118.9kM from New Ranchi end

Members may update.

Deliberation in the meeting

Members noted.

Item No. D.4 UFR operation during the month of October 2020.

Frequency profile for the month is as follows:

Month	Max	Min	% Less IEGC Band	% Within IEGC Band	% More IEGC Band
	(Date/Time)	(Date/Time)			

October, 2020	50.27, 12-10-2020 10:05	49.70 28-10-2020 18:14	3.93	81.87	14.20
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Hence, no report of operation of UFR has been received from any of the constituents.

Members may update.

Deliberation in the meeting

Members noted.

The meeting ended with a vote of thanks to the chair

LIST OF ATTENDEES OF 173rd OCC MEETING

SL NO.	NAME	DESIGNATION	ORGANISATION	PHONE NO.
1	N. S. Mondal	MEMBER SECRETARY	ERPC	9958389967
2	D.K. Bauri	SUPERITENDING ENGINEER	ERPC	9883617236
3	J Ganesh Rao	EXECUTIVE ENGINEER	ERPC	9547891353
4	Alikpantha De	ASST. EXECUTIVE ENGINEER	ERPC	9681932906
5	D. K. Javeri	CH. GENERAL MANAGER	ER-II	
6	Yogesh Singla	DEPUTY GENERAL MANAGER	KBUNL	
7	Ashok Sarkar			
8	Amaresh Mallick	CHIEF GENERAL MANAGER	ERLDC, POSOCO	9436302720
9	P. P. Jena	ASST. EXECUTIVE ENGINEER	ERPC	
10	Gopal Mitra	CH. GENERAL MANAGER	ERLDC	
11	Prakash Kumar Gupta	WBPDCL		
12	Tashi Namgyal		SIKKIM	
13	Arunava Sengupta			
14	Manoranjan Panigrahi			
15	Saurabh Kumar		BRBCL	
16	Tushar Ranjan Mohapatra	MANAGER	ERLDC, POSOCO	
17	Debajyoti Majumder		ERLDC, POSOCO	
18	Prashant Senapathy	ASST. GENERAL MANAGER	GMR	8114918762
19	Surajit Banerjee		POSOCO	9433041823
20	Nishant Kumar Shankwar	MANAGER	DMTCL	7987210324
21	Rajdeep Bhattacharya	REGIONAL ENGINEER	BSPHCL, Kolkata	9830380689
22	Kazi Md Hanif			
23	Laldhari Kumar		ERLDC, POSOCO	9831379478
24	Sanjay Kumar Singh			
25	Raju Kachhap		SLDC, Ranchi	
26	Rajiv Porwal		NLDC	
27	Tushar Ranjan			
28	Chandan Kumar	MANAGER	ERLDC, POSOCO	9869251460
29	Pravat Ranjan jena			
30	Manishan			
31	Nimish Seth			
32	Shailendra Goutam		CHUZACHEN	
33	Surajit Banerjee		ERLDC, POSOCO	9433041823
34	Faisal Ahmed			
35	Priyam Jain		NLDC	
36	Saurav Sahay	Chief Manager	ERLDC, POSOCO	
37	Kashyap			
38	D Bhattacharya			
39	Karikalchozan M	ASST. GENERAL MANAGER	NTPC	
40	Smita		SLDC ODISHA	
41	Alok Kumar Mahto			
42	Ashimananda Pal			
43	Pinki Debnath	MANAGER	ERLDC, POSOCO	
44	D.K Jain	EXECUTIVE DIRECTOR	ERLDC, POSOCO	
45	Chaterjee Biplab		TATA POWER	9204857100
46	Raj Protim Kundu		ERLDC, POSOCO	
47	Prasant Senapthy	ASST. GENERAL MANAGER	GMR	8114918762
48	Raj Kishore Mandal		NTPC	9431600132
49	Sourav Biswas	DEPUTY MANAGER	ERLDC, POSOCO	
50	Shaibal Ghosh	DY. MANAGER	ERLDC, POSOCO	8584072079
51	Jogesh Chandra Patra		TSTPS NTPC	
52	M R Biswal	DIRECTOR	OHPC	
53	Sanjaya Kumar Sharma		DVC	9434539432
54	Preetam Banerjee			

55	Lenin Bodigadla	EXECUTIVE ENGINEER	ERPC	
56	Rajesh Kumar	Dy. CHIEF ENGINEER	DVC	9434480578
57	Akhouri A Prasad	ASST. GENERAL MANAGER	BRBCL	9425293583
58	Sandeep Ghosh			
59	CGM OPTCL	CHIEF GENERAL MANAGER	OPTCL	
60	Abhijit Chakraborty	Dy. CHIEF ENGINEER	DVC	8670221267
61	Rohit Anand		NLDC	
62	S K Singh	CH. GENERAL MANAGER	POWERGRID	
63	Partha Ghosh	CHIEF MANAGER	POWERGRID	9434748263
64	Diptikanta Panda			
65	Ch Mohan Rao			
66	Mohanty A. K		OHPC	
67	Arun Kumar Chaudhury			
68	Nadim Ahmed		ERLDC	
69	Jitendra Agarwal			
70	Pallavi kansal			
71	Kumar Prashant		Ese SLDC	
72	Rahul Anand			
73	Alok Pratap Singh		ERLDC, POSOCO	
74	Satya Priya Behera		OPGC	
75	Jitendra Kumar	GENERAL MANAGER	NHPC	
76	Dhirendra Guru			
77	Yamana Ayappa			
78	Manoj Taunk		ADANI POWER	
79	Anil Chhajer		ADANI POWER	
80	Sweta			
81	S.K. Pradhan	ASST. EXECUTIVE ENGINEER	ERPC	8249244719
82	Abhinaba Basu	ASST. EXECUTIVE ENGINEER	BSPTCL	7033091492
83	Kumar Satyam	ASST. ENGINEER	ERPC	
84	Saswat Swain	ASST. ENGINEER	ERPC	9337791451
85	Madhumita Soren			

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



केन्द्रीय कार्यालय : 61, आई एफ सी आई टावर, 7,8 एवं 9वीं मंजिल, नेहरू प्लेस, नई दिल्ली -110019
Corporate Office : 61, IFCI Tower, 7,8 & 9th Floor, Nehru Place, New Delhi- 110019
CIN : U40105DL2009GOI188682, Website : www.posoco.in, E-mail : posococc@posoco.in, Tel.: 011- 40234672

संदर्भ: POSOCO/NLDC/SO/HVDC/10/

दिनांक: 21st Oct 2020

सेवा मे,

Member Secretary

Southern Regional Power
Committee,
Central Electricity Authority,
No. 29 Race Course Cross Road
Bangalore-560 009

Member Secretary

Eastern Regional Power
Committee
14, Golf Club Road
Tollygunje
Kolkata-700033

Member Secretary

Western Regional Power
Committee
F-3, MIDC Area, Marol,
Central Road,
Mumbai - 400 093

विषय: Review of System Protection Scheme (SPS) of HVDC Talcher-Kolar Bipole

महोदय,

The SPS associated with HVDC Talcher-Kolar Bipole was implemented long back in the year 2003 as per system requirements at that time. The addition of high capacity AC lines in the corridor parallel to this HVDC link have strengthened the ER-SR & WR-SR corridors for exchange of power to/from southern region (SR). The newly commissioned HVDC Raigarh-Pugalur Pole-1 has also been commissioned recently.

Presently, in cases of HVDC Talcher-Kolar Pole blocking, SPS as per design operates with load disconnection in SR and generation backing down/outage in ER. The existing SPS scheme is enclosed as Annexe-1. In view of strengthening of transmission system as stated above, the scheme has been reviewed in consultation with RLDCs. The observations and the revisions proposed in SPS scheme are enclosed as Annexe-2.

It is requested that proposed revisions in System Protection Scheme may please be deliberated and agreed by the appropriate Regional Power Committees (RPCs) expeditiously so that same may be implemented at the earliest.

सधन्यवाद,

संलग्न: उपरोक्तानुसार

भवदीय

देबाशिस दे
(देबाशिस दे) 21/10/2020

कार्यपालक-निदेशक-रा.भा.प्रे.के.

प्रतिलिपि सूचनार्थः

1. Member (Power Systems), CEA, New Delhi
2. Chief Engineer (NPC), CEA, New Delhi
3. COO-CTU, POWERGRID, Gurugram
4. Executive Director, WRLDC/SRLDC/ERLDC

Existing SPS scheme for HVDC Talcher-Kolar Bipole

ER Side

Successive modifications in the scheme on Eastern Region side :

a) SPS 450:

This scheme was originally implemented with a view to limit the sudden injection of power to Eastern and Western Region from TSTPS-2 to 450 MW; in the event of tripping of one pole or both poles of HVDC Talcher-Kolar. In this scheme, the generation at Talcher stage II is to be shed to restrict power flow from stage 2 to ER grid within 450 MW. This scheme of SPS at Talcher-Kolar is seldom in operation since establishment of strong synchronous connection of SR grid with NEW grid. It is enabled with due coordination of NLDC only under any critical outage condition in the rest of the NEW Grid.

Case 1: One pole blocking:

One pole trips and total power injected by TSTPS-2 generators is more than 1700 MW:

- Trip Unit 6 instantly.

Case 2: Both poles blocking:

Both poles trip and total power injected by TSTPS-2 generators is more than 1100 MW:

- Trip Units 6 and 3; and
- If total power injected by the TSTPS-2 generators is still more than 550 MW for more than 250 ms trip Unit 4.
- Net Generation of Talcher Stage 2 > 550 MW after 500 ms delay, then Trip one more Unit of stage 2

b) SPS 1000:

Post formation of the NEW Grid this scheme was subsequently envisaged in order to minimise shedding of generation at Talcher STPP. The basic philosophy of this scheme is to limit the net injection from TSTPS-2 to NEW grid to 1000 MW, on pole tripping. However, as one of the prerequisites for arming this scheme, Eastern Regional operator (ERLDC) has to ensure that sufficient evacuation margin (approx. 1000 MW) is available at the AC evacuation system of TSTPP which is at present connected to ER grid with six no. of 400 kV twin moose lines.

Case 1: One pole blocking:

- i. HVDC flow is more than 1600 MW and one pole is blocked with remaining pole on ground return mode:
 - Trip Unit 6; and
 - Unload Unit 5 by 150 MW.
- ii. HVDC flow is between 1450 MW and 1600 MW and one pole is blocked with remaining pole on ground return mode:
 - Fast Unload Unit 6 by 150 MW; and
 - Fast Unload Unit 5 by 150 MW; and
 - Fast Unload Unit 4 by 150 MW.
- iii. HVDC flow is between 1300 MW and 1450 MW and one pole is blocked with remaining pole on ground return mode:
 - Fast Unload Unit 6 by 150 MW; and
 - Fast Unload Unit 4 by 150 MW.
- iv. HVDC flow is between 1150 MW and 1300 MW and one pole is blocked with remaining pole on ground return mode:
 - Fast Unload Unit 6 by 150 MW.
- v. HVDC flow is between 1000 MW and 1150 MW and one pole is blocked with remaining pole on ground return mode:
 - No SPS action (Control of network loading by manual action).

Case 2: Both poles blocking:

- i. HVDC flow is more than 1600 MW and both poles are blocked:
 - Trip Unit 6; and
 - Fast Unload Unit 5 by 150 MW; and
 - Fast Unload Unit 4 by 150 MW.
- ii. HVDC flow is between 1450 MW and 1600 MW and both poles are blocked:
 - Trip Unit 6; and
 - Fast Unload Unit 5 by 150 MW.
- iii. HVDC flow is between 1300 MW and 1450 MW and both poles are blocked:
 - Fast Unload Unit 6 by 150 MW; and
 - Fast Unload Unit 5 by 150 MW; and
 - Fast Unload Unit 4 by 150 MW.
- iv. HVDC flow is between 1150 MW and 1300 MW and both poles are blocked:
 - Fast Unload Unit 6 by 150 MW; and
 - Fast Unload Unit 4 by 150 MW.
- v. HVDC flow is between 1000 MW and 1150 MW and both poles are blocked:
 - Fast Unload Unit 6 by 150 MW

c) SPS introduced at time of NEW grid SR grid Synchronization

Fast Reduction of 600 MW generation Reduction at GMR, JITPL and Sterlite for any pole tripping of HVDC Talcher-Kolar bipole was implemented then. Later Sterlite was removed from this due to change in network configuration. So at present signal is only sent to GMR and JITPL for reduction of 200 MW at each location.

SR Side:

The SPS scheme for load shedding in southern region is given as :

a) Trip Signal 1 (for load shedding):

- Loss of flow on the HVDC link at any instant is between 500 MW and 1000 MW compared with 2 s earlier flow; or
- Block one of the HVDC poles on a line fault and the flow on the HVDC link just prior to that instant was between 1000 MW and 1500 MW; or
- Trip signal 2 is generated; or
- Trip signal 3 is generated:

Action: Shed around 800 MW load (Karnataka: 250 MW, Andhra Pradesh: 230 MW, and Tamilnadu: 395 MW).

b) Trip Signal 2 (for load shedding):

- Loss of flow on the HVDC link at any instant is more than 1000 MW compared with 2 s earlier flow; or
- Block one of the HVDC poles on a line fault and the flow on the HVDC link just prior to that instant is more than 1500 MW; or
- Trip signal 3 is generated:

Action: Shed around 800 MW load (Karnataka: 200 MW, Andhra Pradesh: 240 MW, Kerala: 170 MW, and Tamilnadu: 170 MW).

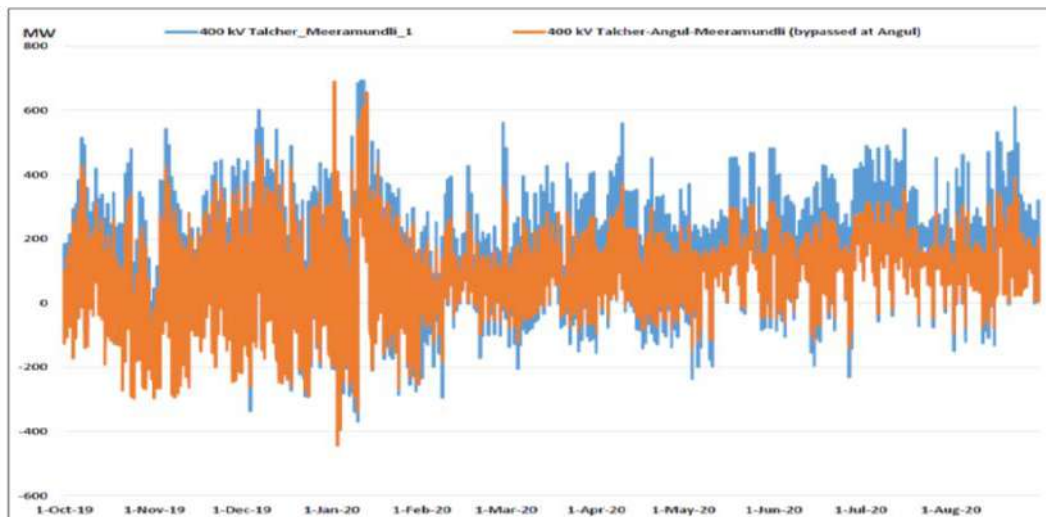
c) Trip Signal 3 (for load shedding):

- Loss of flow on the HVDC link at any instant is more than 2000 MW compared with 2 s earlier flow; or
- Block one of the HVDC poles on a line fault and the flow on the HVDC link just prior to that instant is more than 2000 MW:

Action: Shed 500 MW load (Karnataka: 104 MW, Andhra Pradesh: 125 MW, Kerala: 125 MW, and Tamilnadu: 146 MW).

NLDC review on HVDC Talcher-Kolar SPS

- i. The synchronization of NEW-SR grid has strengthened all India power system. The addition of high capacity AC lines in the corridor parallel to this HVDC link has also strengthened the ER-SR & WR-SR corridors for exchange of power to/from southern region (SR).
- ii. There has been no addition of transmission line for immediate evacuation of Talcher generation. There are still six number of twin moose AC lines in addition to HVDC lines for immediate evacuation of Talcher generation.
- iii. A flexible switching scheme at 400 kV Angul for by-passing is already in operation. With Angul station bypassed, the two circuits of 400kV Talcher-Meramundali have different line lengths (400 kV Talcher-Meramundali-1 is 51 km and 400 kV Talcher-Meramundali-2 is 119 km) and therefore they have different line loadings while in operation. The power flow on these lines since Oct 2019 is given as Fig 1 below. It can be observed that loading on shorter line 400 kV Talcher-Meramundali-1 is approx. 1.8 times the longer line 400 kV Talcher-Meramundali-2.



- iv. The most severe N-1 contingency in HVDC Talcher-Kolar is with bipole operation at maximum rated capacity (2500 MW) and one pole trips and other pole goes into Ground Return path (limited to 150 MW). This may cause additional 2350 MW to be evacuated through AC lines from Talcher.
- v. **Existing SPS (ER side) :**
 - a. Backing down/Tripping of generation in Talcher upto 1500 MW & 800 MW in case of SPS 450 & SPS 1000 respectively for blocking of HVDC Talcher-Kolar one or both poles.

- b. Backing down of generation in GMR/JITPL/Sterlite upto 600 MW in case of SPS 1000 & SPS 450 for blocking of HVDC Talcher-Kolar one or both poles.

vi. Proposed SPS (ER side) :

- a. GMR and JITPL are radially connected to 765/400 kV Angul pooling station. 765/400 kV Angul station is strongly connected to western region and southern region through 765 kV lines. The tripping of HVDC Talcher-Kolar does not cause any constraint in evacuation of GMR/JITPL/Sterlite. Therefore, the generation backing down at these units is not required in present condition. GMR Unit-1 &2 is connected to Angul and Unit-3 to Meramundali and there is a bus split. **Thus the SPS action at JITPL and GMR may be disabled.**
- b. Under some conditions, even after tripping of HVDC Talcher-Kolar, loading on 400 kV Talcher-Mermundali Lines may remain within limits. The generation backing down may be removed for such conditions.
- c. In some conditions, the 400 kV Talcher-Mermandali Lines may get heavily loaded (beyond 874 MW) after the tripping of HVDC Talcher-Kolar. Therefore it is important to consider the loading of 400 kV Talcher-Mermandali Lines in the SPS logic.
- d. High loading of 400 kV Talcher-Mermandali (shorter ckt) appears to be the bottle neck in evacuation of power from Talcher complex in event of outage of HVDC poles. The line is twin moose with thermal capacity of 874 MW and the line is generally loaded around 400 MW. The thermal loading threshold shall be factored based on the CEA manual on Transmission Planning Criteria for different ambient temperatures.
- e. The next possible contingency after outage of 400 kV Talcher-Mermandali (shorter line) is 400 kV Talcher-Mermandali (longer line). Thus SPS needs to be modified to include the loading of these lines as an additional input. Therefore existing SPS logic need to be AND ed with the flow of each of the 400 kV Talcher-Mermandali Lines. The load flow study carried out in this respect is enclosed as Annexe-1.
- f. Similarly in case of faults in DC line, the converters are designed to attempt three auto-restarts and the recovery time, for transient faults, is approx. 1 second. Therefore, any SPS designed need to operate with a delay time of more than 1 second.
- g. In case of line flow based SPS, in order to ensure non operation during transient conditions, it is further required that SPS logic considers the power flow after the transient and therefore a minimum of 2 second stabilisation time has to be considered for continuously measuring the post-contingency power flow. Therefore, a net delay of 2 seconds may be kept for any SPS action [1 sec for HVDC operation and additional 1 sec].
- h. In order to ensure operation of SPS during actual requirement, it is further desired that line flow need to be measured after 4 seconds of SPS 450/1000 signal generation [total 5 sec delay]. Thus, if the loading on any of the 400 kV Talcher-Mermandali Lines

is above 874 MW, then SPS action would take place instantly. [HVDC fault recovery time and ac line flow setting time are concurrent, so not to be added].

- i. The SPS scheme based on current input of line can be easier to implement and robust in operation. The current value corresponding to 874 MW shall be used in SPS logic. The possible delays due to voltage input and its transducer can be avoided, the similar current based SPS schemes are in operation at various locations across the grid.
- j. The annual temperature of Talcher for normal calendar year was analysed and found that yearly temperature can be divided into three time periods. Therefore, three values of ampacity can be considered for different seasons. The ampacity for the twin moose 400 kV Talcher-Meramundali-1 & 2 can be obtained as per CEA Manual on transmission planning criteria. The table extracted from CEA Manual on transmission planning criteria is given below. The maximum conductor temperature has been taken as 75 degree Celsius (shall be confirmed from the line owner) and values of current in table are for single moose which need to be multiplied by two to obtain the value for twin moose line which need to be used in proposed SPS logic. It is proposed to use the values as per Table-2 below.

Thermal Loading Limits for ACSR Moose equivalent Conductors							
Conductor Type (metallic area) and Dimension	Ambient Temperature (deg C)	AMPACITY FOR Maximum Conductor Temperature (deg C)					
		65	75	85	95	120	150
ACSR Moose (597 Sq.mm) Dia:31.77mm	40	528	728	874	NA	NA	NA
	45	378	631	798	NA	NA	NA
	48	247	565	749	NA	NA	NA
	50	83	516	714	NA	NA	NA

Table-1

S.No.	Months	Ambient Temperature consideration (°Celsius)	Ampacity for 75 °Celsius conductor temperature	Line Loading (MW) (=1.73X400X2XA)/1000
1	November-February	40	728	1008
2	March-June	50	516	714
3	July-October	45	631	874

Table-2

- k. The steps are given for clarity of sequence:
 - a) **HVDC Talcher Kolar Trips and SPS 1000 signal is generated**
 - b) **The flow on 400 kV Talcher-Meramundali-1 OR 400 kV Talcher-Meramundali- 2 is more than 874 MW* continuously for a duration of 2 seconds**
 - c) **SPS 1000 would act at Talcher generation**

- d) If condition in “b” above is not satisfied, SPS 1000 will not act and remain high
- e) If condition in “b” above is satisfied after 4 seconds, SPS 1000 will act.

The similar steps would be applicable for SPS 450 if that is in operation prior to the incident.

* 874 MW is default value however table-2 may be referred

vii. Existing SPS (SR side) :

- a. The SPS action causes load shedding in the states of Tamilnadu, Kerala, Andhra Pradesh and Karnataka. The load shedding of upto 2000 MW takes place due to SPS action after tripping of HVDC Talcher-Kolar one pole or both.

viii. Proposed SPS (SR side) :

- a. The connectivity of Southern Region with the rest of grid after commissioning of high power transmission corridors has strengthened. The need of load shedding in SR post tripping of HVDC Talcher-Kolar therefore needs to be reviewed.
- b. The load shedding after tripping of HVDC Talcher-Kolar can be reviewed as no line loading constraints except low voltages at different nodes around kolar are observed after tripping of HVDC Talcher-Kolar one pole or bipole.
- c. The voltages around Bengaluru area is observed to be on lower side during high demand season of southern region. The removal of load shedding post tripping of HVDC bipole may further aggravate the problem of low voltages around the Bengaluru area.
- d. The load flow study shows reduction of voltages by 10-15 kV at important nodes in Southern Region. The study is enclosed as Annexe-2. Therefore, load shedding of approx. 800 MW shall be carried out in Southern Region for such HVDC outage. The shedding of upto 800 MW could be achieved through Under Voltage Load Shedding based SPS for improving voltages around Bengaluru area.
- ix. The trip signals in SR (designed for existing Talcher-Kolar HVDC) for load shedding may be retained for use in SPS scheme of HVDC Raigarh-Pugalur. The load shedding identified for HVDC Kolar (Trip Signals:TK-1, TK-2, TK-2) SPS may be gradually shifted to the HVDC Raigarh-Pugalur SPS as and when the same is ready. Once the shifting of loads is completed and HVDC Raigarh-Pugalur Poles are stabilised, load shedding for HVDC Kolar SPS may be disabled at an appropriate time.

- x. The observation of proposed SPS indicates that on implementation of SPS action for most severe contingency there can be simultaneous load loss of approx. upto 800 MW and generation tripping/backing down of up to 1500 MW. Therefore, the net imbalance in the grid would be approx. up to 700 MW which is less than N-1 contingency in the grid. This is considering N-1 of one unit of Kudankulam generating unit and therefore interregional links would have margin.

-----X-----

Study Results - SPS									
S. No.	HVDC Talcher - Kolar Power Order	400 kV Talcher - Meramundli (short line)	400 kV Talcher - Meramundli (long line)	400/220 kV ICTs at Talcher (2x315 MVA)	400 kV Talcher - Rourkela D/C	400 kV Talcher - Rengali D/C	400 kV Talcher - Meramundli under N-1 of other (long) line	400/220 kV ICT loading under N-1-1 of 400 kV Talcher - Meramundli lines	Stage-II -I Interconnector flow
1	2000	459	237	2x96	2x(-)123	2x114	597	2x181	(-)90
2	1750	516	267	2x105	2x(-)74	2x138	672	2x201	162
3	1500	573	297	2x115	2x(-)25	2x162	746	2x221	414
4	1250	631	326	2x125	2x24	2x185	821	2x241	665
5	1000	688	356	2x134	2x73	2x209	895	2x261	915
6	750	745	385	2x144	2x122	2x232	970	2x281	1167
7	500	802	415	2x153	2x171	2x256	1044	2x301*	1419
8	250	859	445	2x163	2x220	2x279	1118	2x321	1670
9	X	916	474	2x173	2x269	2x303	1193	2x342	1920
a) Sensitivity of 400 kV Talcher - Meramundli long line over short one - 59% b) Sensitivity of Talcher generation on loading of 400 kV Talcher - Meramundli (short) line - 29% (when long line is out) & 22.5% (when long line is in service) <i>All figures are in MW</i> <i>* Loading of 220 kV Talcher - Meramundli crosses 200 MW each</i>									
Assumptions: a) Study has been carried out on limiting case for Odisha shared by ERLDC. Odisha Demand - 5134 MW, Generation - 3470 MW b) HVDC Flows:- Talcher - Kolar - 2000 MW (in base case) G'waka - 625 MW c) Talcher Generation - 4x480 MW + 2x480 MW									

SPS Logic		
S. No.	Line Loading	Generation Reduction (MW)
1	<850 MW	0
2	850 MW to 900 MW	200
3	900 MW to 950 MW	450
4	950 MW to 1000 MW	650
5	1000 MW to 1050 MW	900
6	1050 MW to 1100 MW	1100
7	1100 MW to 1150 MW	1300
8	1150 MW to 1200 MW	1550

Study on review of SPS scheme for HVDC Talcher-Kolar

During the meeting held on 20th July 2020 between ERLDC, SRLDC and NLDC, it was suggested to study & analysis SPS scheme for HVDC Talcher-Kolar. Accordingly, studies have been carried out at SRLDC to review SPS scheme of Talcher-Kolar HVDC from SR point of view for SR import of 12900 MW and with 2000 MW on Talcher-Kolar HVDC.

The simulations have been carried out for two cases i.e., with and without bypass of 400kV Cuddapa-Kolar at 400kV NP Kunta. Study results are both the cases are given below:

(1) With 400kV Cuddapa-NP Kunta-Kolar S/c

- 400kV lines in SR where change in flow is more than 200 MW

From Bus Number	From Bus Name	From Bus Voltage	To Bus Number	To Bus Name	To Bus Voltage	CKT ID	Basecase	Case-1: Outage of Talcher-Kolar HVDC carrying 2000 MW	Change in MW
337004	SOLAPUR-PG	765	437001	RAICHUR-PG	765	B1	1368.1	1743.7	375.6
337004	SOLAPUR-PG	765	437001	RAICHUR-PG	765	B2	1368.1	1743.7	375.6
414037	NP KUNTA	400	434010	KOLAR	400	T1	323.7	647.9	324.2
434003	HOODY	400	434010	KOLAR	400	B1	-413.5	-98.2	315.3
434003	HOODY	400	434010	KOLAR	400	B2	-413.5	-98.2	315.3
257001	ANGUL7	765	417003	SRIKAKULAM	765	H1	1477.8	1750.3	272.5
257001	ANGUL7	765	417003	SRIKAKULAM	765	H2	1477.8	1750.3	272.5
337003	WARDHA-PG	765	427001	NIZAMABAD	765	H1	1636	1879.1	243.1
337003	WARDHA-PG	765	427001	NIZAMABAD	765	H2	1636	1879.1	243.1
434005	SOMANAHALLI	400	434010	KOLAR	400	T1	-226.9	10.5	237.4
417003	SRIKAKULAM	765	417004	VEMAGIRI_PG	765	H2	1036.5	1234.9	198.4
417003	SRIKAKULAM	765	417004	VEMAGIRI_PG	765	H1	1036.6	1234.9	198.3
434010	KOLAR	400	444006	HOSUR	400	T1	374.9	169	-205.9
434010	KOLAR	400	444006	HOSUR	400	T2	374.9	169	-205.9
417001	KURNOOL-PG	765	437001	RAICHUR-PG	765	B1	-780	-988.7	-208.7
417001	KURNOOL-PG	765	437001	RAICHUR-PG	765	B2	-793.6	-1005.9	-212.3
434010	KOLAR	400	444024	TIRUVALAM-PG	400	T1	-28.7	-295	-266.3
434003	HOODY	400	434022	YELAHANKA	400	T1	9.5	-257.6	-267.1
434003	HOODY	400	434004	NELAMANGALA	400	T1	56.6	-274.8	-331.4

- 400kV buses in SR where change in voltage is more than 8kV

Bus Number	Bus Name	Voltage level (kV)	Basecase	Case-1: Outage of Talcher-Kolar HVDC carrying 2000 MW	Change in Voltage (kV)	Case-2: Case-1+ 800 MW load shedding in SR	Change in Voltage (case-2 w.r.to case-1)
434010	KOLAR	400	414	400	-14	403	3
434003	HOODY	400	409	397	-12	400	3
434022	YELAHANKA	400	408	398	-10	401	3
434004	NELAMANGALA	400	410	400	-10	402	3
444006	HOSUR	400	413	404	-9	406	2
434007	BIDADI	400	410	401	-9	404	3
454008	KOZHIKODE	400	422	412	-9	416	4
434005	SOMANAHALLI	400	410	401	-9	404	3
434020	MYSORE	400	418	409	-9	412	3
434008	TUMKUR	400	415	406	-9	408	2
434026	PAVAGADA	400	416	408	-8	412	4

(2) With 400kV Cuddapa-NP Kunta-Kolar S/c

- 400kV lines in SR where change in flow is more than 200 MW

From Bus Number	From Bus Name	From Bus Voltage	To Bus Number	To Bus Name	To Bus Voltage	CKT ID	Basecase	Case-1: Outage of Talcher-Kolar HVDC carrying 2000 MW	Change in MW
337004	[SOLAPUR-PG	765.00]	437001	[RAICHUR-PG	765.00]	B1	1369	1745	376
337004	[SOLAPUR-PG	765.00]	437001	[RAICHUR-PG	765.00]	B2	1369	1745	376
434003	[HOODY	400.00]	434010	[KOLAR	400.00]	B1	-397	-68	329
434003	[HOODY	400.00]	434010	[KOLAR	400.00]	B2	-397	-68	329
257001	[ANGUL7	765.00]	417003	[SRIKAKULAM	765.00]	H1	1478	1751	273
257001	[ANGUL7	765.00]	417003	[SRIKAKULAM	765.00]	H2	1478	1751	273
414004	[CHINAKMPALLI	400.00]	434010	[KOLAR	400.00]	T1	242	494	252
434005	[SOMANAHALLI	400.00]	434010	[KOLAR	400.00]	T1	-215	34	248
337003	[WARDHA-PG	765.00]	427001	[NIZAMABAD	765.00]	H1	1634	1876	242
337003	[WARDHA-PG	765.00]	427001	[NIZAMABAD	765.00]	H2	1634	1876	242
417003	[SRIKAKULAM	765.00]	417004	[VEMAGIRI_PG	765.00]	H1	1037	1235	199
417003	[SRIKAKULAM	765.00]	417004	[VEMAGIRI_PG	765.00]	H2	1037	1235	199

From Bus Number	From Bus Name	From Bus Voltage	To Bus Number	To Bus Name	To Bus Voltage	CKT ID	Basecase	Case-1: Outage of Talcher-Kolar HVDC carrying 2000 MW	Change in MW
417001	[KURNOOL-PG	765.00]	437001	[RAICHUR-PG	765.00]	B1	-778	-985	-207
417001	[KURNOOL-PG	765.00]	437001	[RAICHUR-PG	765.00]	B2	-792	-1003	-211
434010	[KOLAR	400.00]	444006	[HOSUR	400.00]	T1	365	149	-216
434010	[KOLAR	400.00]	444006	[HOSUR	400.00]	T2	365	149	-216
434010	[KOLAR	400.00]	444024	[TIRUVALAM-PG400.00]	400.00]	T1	-43	-322	-278
434003	[HOODY	400.00]	434022	[YELAHANKA	400.00]	T1	-5	-284	-279
434003	[HOODY	400.00]	434004	[NELAMANGALA	400.00]	T1	39	-307	-346

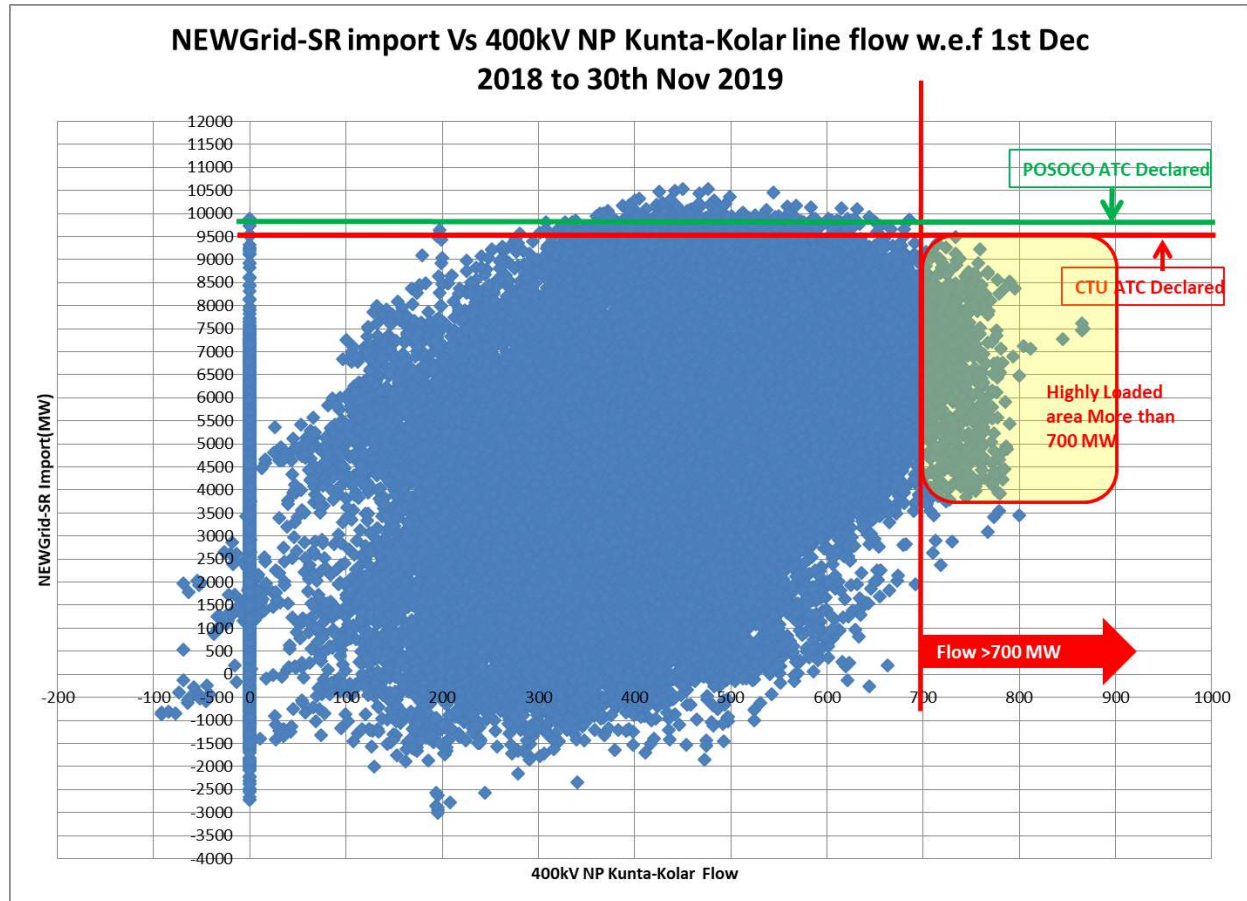
- 400kV buses in SR where change in voltage is more than 8kV

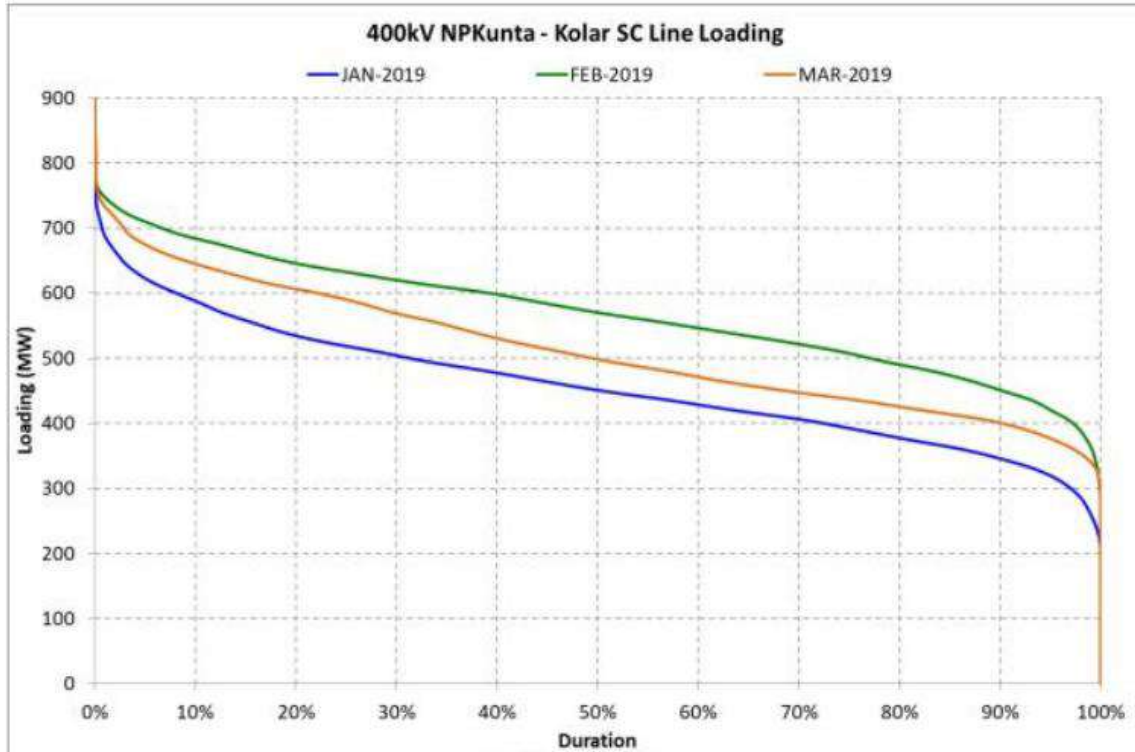
Bus Number	Bus Name	Voltage level (kV)	Basecase	Case-1: Outage of Talcher-Kolar HVDC carrying 2000 MW	Change in Voltage (kV)	Case-2: Case-1+ 800 MW load shedding in SR	Change in Voltage (case-2 w.r.to case-1)
434010	[KOLAR	400.00]	414	399	-15	402	3
434003	[HOODY	400.00]	409	396	-13	400	3
434022	[YELAHANKA	400.00]	408	397	-11	400	3
434004	[NELAMANGALA	400.00]	410	399	-11	402	3
444006	[HOSUR	400.00]	413	403	-10	406	3
434007	[BIDADI	400.00]	410	400	-10	403	3
434005	[SOMANAHALLI	400.00]	410	400	-10	403	3
454008	[KOZHIKODE	400.00]	422	412	-10	416	4
434020	[MYSORE	400.00]	418	408	-10	412	4
434008	[TUMKUR	400.00]	415	405	-9	408	3
434026	[PAVAGADA	400.00]	416	407	-9	410	3
434019	[HIRIYUR	400.00]	415	406	-8	410	4
434013	[HASSAN	400.00]	421	412	-8	415	3

Observations:

1. Outage of Talcher-Kolar HVDC carrying 2000 MW doesn't lead to overloading of 400kV lines in SR normally. However, with outage of HVDC, the flow on 400kV NP Kunta-Kolar s/c may breach thermal limit if pre-contingency flow on 400kV NP Kunta-Kolar is high.

2. It may be noted that the flow on 400kV NP Kunta-Kolar goes very high during the day time and this has been taken up in the feedback to planner and the duration curve of 400kV NP Kunta-Kolar is given below.





This issue has been taken up in 1st meeting of Southern Region Power Committee on Transmission Planning. Subsequently, it was also discussed in joint study committee meeting of SR held in Nov'19. The study committee agreed for delinking of 400kV Cuddapa-NP Kunta-Kolar line at N.P. Kunta to make direct line from 400kV Cuddapah to 400kV Kolar.

3. The voltage in Bengaluru and Mysore area is going to reduce by 10-15 kV with the outage of T-K HVDC carrying 2000 MW with & without bypassing of NP Kunta. Under Voltage Load Shedding Scheme (UVLS) is available with 150 MW in Bengaluru & Mysore area. However, there would be a need to enhance this UVLS in the absence of SPS. This would be taken up at the appropriate forum at OCC & PCC and this would be a generic scheme.

Considering the above points, it is suggested that to keep Talcher-Kolar SPS until the following actions are taken:

- 400kV Cuddappa-Kolar straightening by bypassing at 400kV Cuddapa-NP Kunta-Kolar at 400kV NP Kunta
- Commissioning of Raigarh-Pugalur HVDC one Pole.
- Identification of loads and commissioning of UVLS in Bengaluru, Mysore & Kozhikode area.

It may be noted that Talcher-Kolar SPS is quite reliable and mock testing of the same is carried in regular intervals. Hence, Talcher-Kolar SPS loads could be shifted to Raigarh-Pugalur SPS instead of disabling or removing the Talcher-Kolar SPS as suggested by SRPC.

Sensitivity in case of Talcher Kolar bipole outage & line loading just after tripping of Bipole is presented below:

Annexe-3 of Annexe-2

Talcher Kolar Sensitivity on SR inter-regional lines				
Name of the Element	Loading in Limiting case	Loading under Talcher Kolar Bipole Outage	*Sensitivity	sensitivity in case other parallel element goes out
765 kV Angul Srikakulam S/C	1643	1915	-14%	65%
765 kV Raichur Solapur S/C	1391	1788	-20%	61%
765 kV Wardha Nizamabad S/C	1737	1962	-11%	55%
400 kV Kudgi Kolhapur S/C	156	35	6%	57%
765/400 kV Nizamabd ICT	846	941	-5%	63%
765/400 kV Maheshwaram ICT	867	989	-6%	64%

* positive sign indicates element loading increases with increase in HVDC power order

* negative sign means loading increases even though HVDC power order decreases

In order to make the system further N-1 compliant, SR import TTC has to be reduced by 2200 MW. Limiting constraint in this scenario would be overloading of 765 kV Angul-Srikakulam under outage of other circuit.

Annexure B2

Details of RE Generation Projects							
Name of generation project	Name of potential RE Zone	Location (State, district)	Type (Wind, Solar, hybrid, Wind/ Solar with Storage, Small Hydro, Biomass etc.)	Total Capacity (MW) tied up /commissioned till 31.03.2020	Capacity (MW) tied-up /commissioned /to be commissioned during 2020-21 to 2026-27	Sub-station at which the RE generator is planned to be connected	Identified beneficiaries along with quantum of power, if any
Name of generation project	Name of potential RE Zone	Location (State, district)	Type (Wind, Solar, hybrid, Wind/ Solar with Storage, Small Hydro, Biomass etc.)	Total Capacity (MW) proposed to be commissioned during 2026-27 to 2031-32	Sub-station at which the RE generator is planned to be connected	Identified beneficiaries along with quantum of power, if any	

Annexure B2

Details of Thermal/Hydro generation projects								
Name of Generation Project	Location (State, district)	Type (Coal/Lignite/Gas/Hydro etc.)	Unit Size (MW) (e.g. 200/210/500/660 etc. or any other size in MW)	Capacity Commissioned (MW) till 31.03.2020	Total Capacity (MW) commissioned/likely to be commissioned during 2020-21 to 2026-27	Total Capacity (MW) to be commissioned during 2026-27 to 2031-32	Sub-station at which the generator is planned to be connected	Identified beneficiaries along with quantum of power, if any

Annexure B2

SI no.	Name of Substation	Type of Load (Domestic, commercial, Agriculture, Industrial etc.)	Maximum load in 2019-20 (MW)	Likely Maximum load in 2021-22 (MW)	Likely Maximum load in 2026-27 (MW)	Likely Maximum load in 2031-32 (MW)
1						
2						
3						

Annexure B2

Details of intra-state transmission lines to be commissioned between 2021-22 to 2026-27						
SI. No	From	To	Voltage Level (kV)	Length	Circuit (S/C or D/C)	Type of conductor
Details of intra-state transmission lines to be commissioned between 2026-27 to 2031-32						
SI. No	From	To	Voltage Level (kV)	Length	Circuit (S/C or D/C)	Type of conductor
Details of Intra state ICT to be commissioned between 2021-22 to 2026-27						
SI. No	Name of Substation	Volatge ratio	Capacity			
Details of Intra state ICT between to be commissioned between 2026-27 to 2031-32						
SI. No	Name of Substation	Volatge ratio	Capacity			

RPO obligation of State/ UT			
	Solar	Non-solar	Total
2019-20			
2021-22			
2026-27			
2031-32			

Ref. No.: ER-I/PAT/AM(ER-I)/

Date : 26.10.2020

To,
Member Secretary,
Eastern Regional Power Committee,
14, Golf Club Road, Tollygunj, Kolkata-700033

Sub: Regarding collapse of tower no. 1103 (DD+0) i.r.o. 400 kV Purnea Farakka and 400 kV Purnea Gokarna lines – restoration plan thereof.

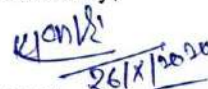
Ref: i) Our email dtd. 05.09.2020
ii) Letter Ref. No. ER-I/PAT/AM(ER-I)/ dtd. 11.09.2020

Dear Sir,
This is in reference to our earlier correspondences mentioned above regarding collapse of tower no. 1103 (DD+0) of 400 kV New Purnea-Farakka and New Purnea-Gokarna Lines due to encroachment of river Ganga. The site conditions are still not workable and approach to this location is not feasible as per the current scenario in that area. Some photographs of local site condition and approach road taken on 23.10.2020 is enclosed as Anx-I for reference. However, we have planned to restore 400 kV New Purnea-Farakka and New Purnea-Gokarna Lines as per following:

- Temporary restoration:** After workable condition at site (expected by end of November, 2020) two numbers of ERS towers (one in each ckt.) shall be utilized for bypassing the tower no. 1103 in Ganga section (Scheme enclosed) by 15.12.2020.
- Permanent Restoration:** Permanent restoration by providing 02 Nos. Pile Foundation and 01 No. open cast foundation in Ganga section is expected to be completed by end of **June 2021**.

This is for your kind information and record please.

Yours faithfully,



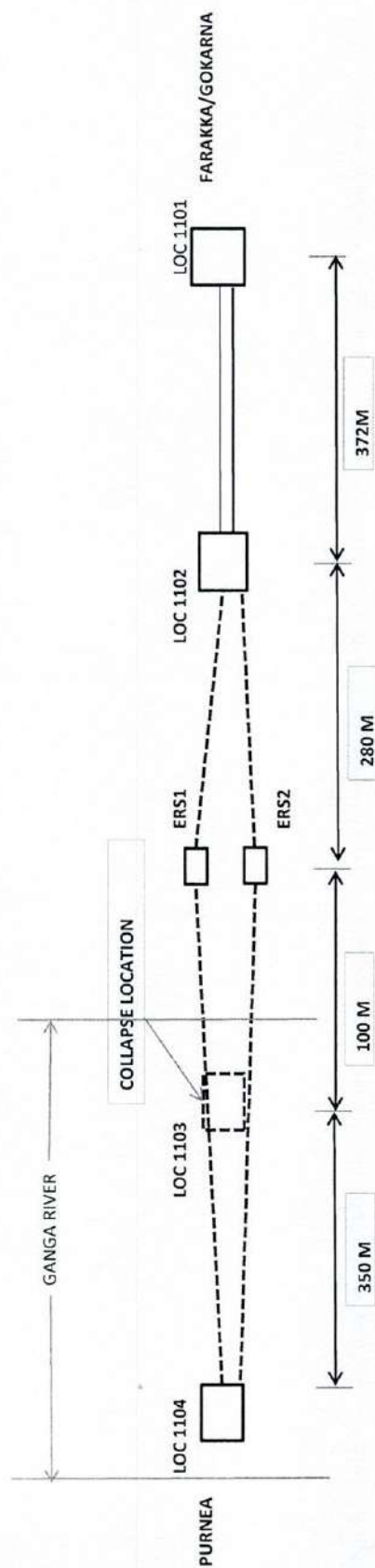
(S.K. Singh)

CGM (AM)/ER-I

Encl: Photographs of site condition and ERS scheme arrangement

Copy to : ED (ERLDC)

TEMPORARY RESTORATION PLAN OF 400KV NEW PURNEA FARAKKA AND NEW PURNEA GOKARNA ON ERS ARRANGEMENT



Conductor used in existing Line: Triple snowbird

Conductor proposed in ERS Section: HTLS / BERSIMIS / MOOSE/SNOWBIRD

2/2/24

ERLDC, KOLKATA TRANSMISSION ELEMENTS OUTAGE PROPOSED IN 173rd OCC MEETING OF ERPC													
		FROM		TO									
SI	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S.D availing agency	Reason	Comment by ERLDC	SUBJECT TO CONSENT FROM AGENCY	Remarks from Indenting Agencies	NLDC Comments	
									Information Required	Remarks			
1	220 KV Gaya(PG)-Dehri ckt 1 and ckt 2	24-Nov-20	7:00	24-Dec-20	15:00	ODB	BSPTCL	OPGW installation in live line	Line Will trip for Transient SLG Fault		Auto Reclosure shutdown Work will be		
2	220 KV Gaya(PG)-Dehri ckt 1 and ckt 2	25-Nov-20	7:00	25-Nov-20	15:00	ODB	BSPTCL	-	Pusauli-Dehri Should be in service		Dehri will avail power from Pushauli(PG)		
3	220 KV Gaya(PG)-Dehri ckt 1 and ckt 2	29-Nov-20	7:00	29-Nov-20	15:00	ODB	BSPTCL	For safety purpose during OPGW installation	Pusauli-Dehri Should be in service		Dehri will avail power from Pushauli(PG)		
4	400 kV Farakka Gokarna	30-Nov-20	7:00	4-Dec-20	16:00	OCB	POWERGRID, ER-I	For charging of New Purnea Gokarna and New Purnea Farakka through ERS arrangement due collapse tower loc 1103 in river Ganga.	Detailed Work Plan/ Sketch to be submitted	Gokarno Sagardighi Should be available	WB		
5	765KV Angul-Srikakulam Line-2 along with 240MVAR LR at Angul	30-Nov-20	7:00	30-Nov-20	16:00	ODB	ER-II/Odisha/Angul	Line Maintenance Work and Line reactor AMP	May be availed after winter (will be reviewed in Feb'21 OCC)	ER-SR TTC to be deduced to 2650 MW	NLDC	Approved in SRPC occ meeting. TTC Reduction upto 900 MW in the ER-SR corridor during the shut down period	
6	Shutdown of Kahalgaon- Banka Ckt-2	30-Nov-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	Shutdown required for OPGW installation from Kahalgaon Gantry to Tower no. 43 (diverted portion) of Kahalgaon- Banka	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,				
7	A/R Switch Off of 400 kV	30-Nov-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	AR Switch Off	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,				
884	132kV D/C Motihari (DMTCL) - Motihari (BSPTCL)	30-Nov-20	8:00	1-Dec-20	16:00	ODB	POWERGRID ER-I	POWER LINE CROSSING OF 400 KV SITAMARHI MOTIHARI D/C LINE UNDER TBCB	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,	BSEB			
886	400 KV BIHARSHARIF BANKA -II	30-Nov-20	8:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	LAYING OF OPGW FROM NTPC GANTRY TOWER UP TO TOWER NO 43 (DIVERTED PORTION)	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,	BSEB			
887	A/R of 400 KV BIHARSHARIF BANKA -I	30-Nov-20	8:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	FOR SAFETY OF THE WORK DURING OPGW INSTALLATION WORK.	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,	BSEB			
8	765 kV Main bay of 765 kV BR-1 (701) at Gaya	1-Dec-20	7:00	1-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC			
9	A/R of 400 KV Patna-Kisanganj-II	1-Dec-20	7:00	31-Dec-20	16:00	ODB	POWERGRID ER-I	For OPGW installation work	Line Will trip for Transient SLG Fault			subject to consent of NRPC	
10	A/R of 400 KV Biharsharif-Banka-II	1-Dec-20	7:00	31-Dec-20	16:00	ODB	POWERGRID ER-I	For OPGW installation work	Line Will trip for Transient SLG Fault			subject to consent of NRPC	
11	A/R of Biharsharif Koderma II	1-Dec-20	7:00	31-Dec-20	16:00	ODB	POWERGRID ER-I	For OPGW installation work	Line Will trip for Transient SLG Fault			subject to consent of NRPC	
12	A/R of Ranchi Maithon RB II	1-Dec-20	7:00	31-Dec-20	16:00	ODB	POWERGRID ER-I	For OPGW installation work	Line Will trip for Transient SLG Fault	MPL			
13	401 DHALKEBAR-2 MAIN BAY AT MUZAFFARPUR	1-Dec-20	7:00	1-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			subject to consent of NRPC	
14	765KV S/C GAYA-VARANASHI	1-Dec-20	7:00	1-Dec-20	16:00	ODB	POWERGRID ER-I	Pollution cleaning at Total -05 nos location	Other Ckt should be available	NLDC			
15	400 KV BIHARSHARIF - VARANASI CKT - I	1-Dec-20	7:00	1-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings Total 60 locations. Completed - Nil. To be completed- 40	Ckt- 2 Should be available	NLDC			
16	A/R OF 400 KV BIHARSHARIF - VARANASI CKT - II	1-Dec-20	7:00	1-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF - VARANASI CKT - II	Line Will trip for Transient SLG Fault				
17	A/R OF BARH MOTIHARI II	1-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID ER-I	LIVE LINE OPGW INSTALLATION WORK	Line Will trip for Transient SLG Fault				
18	A/R OF MOTIHARI GORAKHPUR II	1-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID ER-I	LIVE LINE OPGW INSTALLATION WORK	Line Will trip for Transient SLG Fault				
19	400 KV BIHARSHARIF-MUZAFFARPUR-II	1-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of porcelain insulators with polymer insulator	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available			
20	A/R of 400 KV BIHARSHARIF-MUZAFFARPUR-I	1-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	To facilitate the s/d of 400 KV BSF-MUZ-II	Line Will trip for Transient SLG Fault				
21	400kV Koderma - Biharsarif-I	1-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	S/D for changing porcelain insulator by polymer insulator.	Other Ckt should be available	DVC			
22	A/R of 400kV Koderma - Biharsarif-II	1-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	A/R in non-auto mode for replacement work.	Line Will trip for Transient SLG Fault				
23	220 KV Darbhanga Motihari	1-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID, ER-I	Power line crossing of Sitamarhi Darbhanga T/L	Other Ckt should be available	BSEB		Subject to Bhutan consent.	
24	400KV Main bay Bongaigaon #1 at Binaguri	1-Dec-20	7:00	15-Dec-20	16:00	OCB	POWERGRID ER-II	Upgradation of 412 Bay under ERSS-XX	Detailed Work Plan to be submitted	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
25	400KV BINAGURI-RANGPO-1 line	1-Dec-20	7:00	31-Dec-20	16:00	OCB	POWERGRID ER-II	Dismantalling of ACSR Conductor & re-stringing with HTLS Conductor	Weekly work status update	Kishanganj link to Sikkim Should be available			
26	400KV BINAGURI-RANGPO-2 line	1-Dec-20	7:00	31-Dec-20	16:00	OCB	POWERGRID ER-II	Dismantalling of ACSR Conductor & re-stringing with HTLS Conductor	Weekly work status update	Kishanganj link to Sikkim Should be available			
27	80 MVAR Alipurdwar #1 LR at Binaguri	1-Dec-20	7:00	1-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor SD to be avoided in lean winter season			
28	400 KV Binaguri-Tala Line 1	1-Dec-20	7:00	1-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AAI for fixing of span marker/aviation light at section 286-288		Other Ckt should be available			
29	220KV Siliguri-Kishanganj-1 line	1-Dec-20	7:00	15-Dec-20	16:00	OCB	POWERGRID ER-II	NH crossing work 168-169 & 187-188	Detailed Work Plan/ Sketch to be submitted	400 kV Connectivity Should be available			
30	220KV Siliguri-Kishanganj-2 line	1-Dec-20	7:00	15-Dec-20	16:00	OCB	POWERGRID ER-II	NH crossing work 168-169 & 187-189	Detailed Work Plan/ Sketch to be submitted	401 kV Connectivity Should be available			
31	400KV Rangpo-Dikchu line	1-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-II	For stringing work of 400KV LOOP OUT in Multi Ckt portion in Top Phase of Ckt -2	Detailed Work Plan/ Sketch to be submitted	May be taken after Return of Binaguri Rangpo			
32	400 KV S/C Sagardighi-Subhashgram line	1-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-II	Replacement of broken insulator & Rectification of all shut down nature of works.	Detailed Status of Work done/ Pending work needs to be submitted	jerrat Sagardighi Should be available	WB		
33	400KV Maithon-Kahalgaon-2 line	1-Dec-20	7:00	1-Dec-20	16:00	ODB	POWERGRID ER-II	Relay testing and Bay AMP work	Other Ckt should be available				
34	400KV Maithon-Right Bank # I	1-Dec-20	7:00	4-Dec-20	16:00	OCB	POWERGRID ER-II	Re conducting work	Detailed Work Plan to be submitted/ May be availed when one MPL unit is under overhauling	Other Ckt should be available	MPL		
35	A/R 400KV Maithon-Right Bank # II	1-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-II	To be kept in Non-Auto Mode during reconductoring of 400KV Maithon- RB# I line for safety measure		Line Will trip for Transient SLG Fault	MPL		
36	400KV RBTPS-Ranchi I&II	1-Dec-20	7:00	2-Dec-20	16:00	OCB	POWERGRID ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line	Detailed Work Plan to be submitted/ May be availed when one MPL unit is under overhauling	Other ckt from RTPS should be available	MPL		

37	400 KV Main Bus-I at Subhasgram	1-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-II	For dismantling of old 407 & 410 Bay Bus Isolator and installation & commissioning of new 407 & 410 Bay Bus Isolator under ERSS - XVIII Project. & Bay Stability Test	Detailed Work Plan to be submitted	Other Bus Should be available	WB	400 KV Main Bus-1 will be under Shutdown.	
38	A/R in non-auto mode in 400KV Teestalli-Kishanganj TL	1-Dec-20	7:00	31-Dec-20	16:00	ODB	POWERGRID ER-II	For OPGW Installation Work under Fiber Optic Expansion Project (Addl. Requirement)		Line Will trip for Transient SLG Fault			Line shutdown was already availed for 17-18th November.
39	A/R in non-auto mode in 132KV Rangpo-Chuzachen-I & II	1-Dec-20	7:00	31-Dec-20	16:00	ODB	POWERGRID ER-II	For OPGW installation Work under Fiber Optic Expansion Project (Addl. Requirement)		Line Will trip for Transient SLG Fault			Approved in SRPC occ meeting. TTC Reduction upto 900 MW in the ER-SR corridor during the shutdown period
40	A/R in non-auto mode in 400KV Mejia-Jamshedpur TL	1-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-II	For OPGW installation Work under ERSS-XVIII TBCB Project (765KV Ranchi-Midinipur)		Line Will trip for Transient SLG Fault			
41	400KV Maithon-Jamshedpur TL	1-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-II	For OPGW installation Work under ERSS-XVIII TBCB Project (765KV Ranchi-Midinipur). For OPGW installation Work in section with old/damaged earthwire	Why line shutdown is required may be explained	Maithon-Meja-Jamsedpur should be available			
42	A/R in non-auto mode in 400KV Andai-Jamshedpur-I	1-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-II	For OPGW installation Work in MultiCkt portion under ERSS-XVIII TBCB Project (765KV Ranchi-Midinipur)		Line Will trip for Transient SLG Fault			
43	400KV Binaguri-Bongaigaon-2	1-Dec-20	8:00	1-Dec-20	16:00	ODB	POWERGRID NER	AMP of line reactor (where line will be out of service due to clearance issue while working on L/R)		Other Ckt should be available	NLDC		
44	765KV Angul-Srikakulam Line-1 along with 240MVAR LR at Angul	1-Dec-20	7:00	1-Dec-20	16:00	ODB	ER-II/Odisha/Angul	Line Maintenance Work and Line reactor AMP	May be availed after winter (will be reviewed in Feb'21 OCC)	ER-SR TTC to be reduced to 2650 MW	NLDC		
45	315MVA, ICT-2 at Bolangir	1-Dec-20	7:00	9-Dec-20	16:00	OCB	ER-II/Odisha/Balangir	Internal inspection and Bushings lead connection checking due to rise in fault gases.		Line Will trip for Transient SLG Fault	GRIDCO		
46	315 MVA ICT-2 at Bolangir	1-Dec-20	7:00	1-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 315MVA ICT-2		Other ICT(s) Should be available	GRIDCO		May be allowed
47	220KV Side Bay of 315MVA ICT-2 (212 BAY) at Bolangir	1-Dec-20	7:00	1-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 212 52CB and 212 CT		May be Charged with Transfer Bus			
48	Main Bay of 400KV Bolangir line (415 Bay) at Jeypore	1-Dec-20	7:00	1-Dec-20	16:00	ODB	ER-II/Odisha/Jeyepore	For AMP Work of 415 Bay	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Yie Bay and Main bay of Yie Should be available, Atleast two dia should be complete			
49	315 MVA ICT#2 at Rourkela	1-Dec-20	7:00	5-Dec-20	16:00	OCB	ER-II/ODISHA/ROURKELA	Commissioning works related to Parallelling of ICTs		Line Will trip for Transient SLG Fault	GRIDCO		
50	Main bay 404 of 400KV Sundargarh-Rourkela ckt-2 at Sundargarh	1-Dec-20	7:00	1-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
51	765KV Sundargarh-Angul Line-I	1-Dec-20	7:00	1-Dec-20	12:00	ODB	ER-II/Odisha/Sundargarh	Guy arrangement works for system improvement.		Other Ckt should be available	NLDC		Approve by SRPC OCC.
52	A/R OF 400KV Sundargarh-Raigarh Ckt #1&3	1-Dec-20	7:00	25-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	For PID Testing of Porcelain Insulator. Only Auto reclose		Line Will trip for Transient SLG Fault			Subject to WRPC consent.
53	765KV Sundargarh-Angul Ckt #1	1-Dec-20	7:00	10-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	Delta A type tower strenthening and TL Maint work		Line Will trip for Transient SLG Fault	NLDC		
54	A/R to be in non automode of 400 kV Baripada-Duburi Line	1-Dec-20	7:00	31-Dec-20	16:00	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)"		Line Will trip for Transient SLG Fault			Approved in SRPC occ meeting. TTC Reduction upto 300 MW in the ER-SR corridor during the shutdown period
55	A/R to be in non automode of 400 kV Dubur-Pandiabili Line	1-Dec-20	7:00	31-Dec-20	16:00	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)"		Line Will trip for Transient SLG Fault			
56	A/R to be in non automode of 400 kV Pandiabili-Mendhasal Ckt 2	1-Dec-20	7:00	31-Dec-20	16:00	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)"		Line Will trip for Transient SLG Fault			May be allowed
57	A/R to be in non automode of 400 kV Angul-GMR Ckt 1	1-Dec-20	7:00	31-Dec-20	16:00	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)"		Line Will trip for Transient SLG Fault			
58	A/R to be in non automode of 400 kV Angul-JITPL Ckt 1	1-Dec-20	7:00	31-Dec-20	16:00	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)"	Detailed Work Plan to be submitted	Other ICT(s) Should be available			
59	A/R to be in non automode of 400k kV Angul-GMR Ckt 2	1-Dec-20	7:00	31-Dec-20	16:00	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)"	Detailed Work Plan to be submitted	ER SR TTC, Gazuwak to be restricted to 350 MW			
60	A/R to be in non automode of 400 kV Angul-JITPL Ckt 2	1-Dec-20	7:00	31-Dec-20	16:00	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)"	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided			Subject to NERPC consent. Location details to be shared.
61	A/R to be in non automode of 765 kV Angul-Srikakulam Ckt 1	1-Dec-20	7:00	31-Dec-20	16:00	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)"	Detailed Work Plan to be submitted	Other Ckt should be available	NLDC		Subject to NERPC consent.
62	KTPP-Arambagh 400 KV Ckt	1-Dec-20	7:00	1-Dec-20	16:00	ODB	WBSETCL	CT & CVT testing					
63	400 KV MB-II at Kharagpur	1-Dec-20	7:00	7-Dec-20	16:00	ODB	WBSETCL	Maintenance Work of PG isolator against bus -II of different feeders		Othe bus Should be avaialbe			May be allowed
64	NJP-Binaguri(PG) 220 KV Bus sec-I	1-Dec-20	7:00	1-Dec-20	16:00	ODB	WBSETCL	Annual Maintenance Work (Main Bus Side Isolator, clamps and connectors on Main Bus)		Othe Bus Sectionalizer should be available			
65	400 kV D/C Alipurduar-Bongaigaon Ckt-01	1-Dec-20	7:00	1-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Should not condied with Binaguri Bongaigaon	NLDC		
66	A/R OF 400 kV D/C Alipurduar-Bongaigaon Ckt-02	1-Dec-20	7:00	1-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
67	STATCOM	1-Dec-20	7:00	1-Dec-20	12:30	ODB	ER-II/ODISHA/ROURKELA	For Rotation of Coupling Xmer Units (Taking B Phase into service)		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,			
68	400KV Allahabad Line Reactor Bay (CWL29Q50) at Pusauli	2-Dec-20	7:00	5-Dec-20	16:00	OCB	POWERGRID ER1	Overhauling of CWL29Q50-Y phase Pole		Reactor shutdown in lean winter season should be avoided			
69	765 kV Tie bay of 765 kV BR-1 (702) at Gaya	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete	NLDC		Subject to NRPC consent.
70	400 KV Gaya-Maithon Transmission Line Ckt-I	2-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-1	for replacement of Porcelain Insulator with (CLR) Polymer Insulator at Major crossings.	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available			Subject to NRPC consent.
71	500MVA ICT-1 AT NEW PURNEA	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available	BSEB		Subject to NRPC consent.
72	220KV SIDE ICT-2BAY (209) AT RANCHI	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available			Subject to NRPC consent.
73	315 MVA ICT 4 at Biharsharif	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available	BSEB		Subject to Bhutan consent.
74	402 DHALKEBAR-2-ICT-3 TIE BAY AT MUZAFFARPUR	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			

75	765KV S/C GAYA-VARANASI-II	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-I	Pollution cleaning at Total 03 nos. location		Other Ckt should be available	NLDC		
76	400 KV BIHARSHARIF - VARANASI CKT- II	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings Total 60 locations; Completed - Nil; To be completed- 40		Other Ckt should be available	NLDC		
77	A/R OF 400 KV BIHARSHARIF - VARANASI CKT- I	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF - VARANASI CKT- I		Line Will trip for Transient SLG Fault	NLDC		
78	400 KV BARH-GORAKHPUR 1	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-I	FOR REPLACEMENT OF FLASHED INSULATOR at loc 14		Other Ckt should be available	NLDC		
79	400 KV Binaguri-Tala Line 2	2-Dec-20	7:00	2-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AA for fixing of span marker/aviation light at section 286-288		Other Ckt should be available	NLDC		
80	400/220 KV 315 MVA ICT-V at Malda	2-Dec-20	7:00	4-Dec-20	16:00	OCB	POWERGRID ER-II	Tertiary Y-ph Bushing replacement owing to high tan-delta value		Other ICT(s) Should be available	WB	Will not be taken if availed in Nov-20	
81	132KV Rangpo-Gangtok-II	2-Dec-20	7:00	2-Mar-21	16:00	ODB	POWERGRID ER-II	For shorting 132KV Rangpo-Gangtok-II with 132KV Rangpo-Rangit at loc 4 for bypassing of Rangpo S/S in order to carry out rectification of MC loc 21 which got bent due to landslide during monsoon.After shorting/S/D return,The line shall become 132KV Rangit-Gangtok(74KM). This arrangement shall continue for 03 months till rectification of lower no 21.	Detailed Work Plan/ Sketch to be submitted	Other Ckt should be available	SIKKIM	Approved in SRPC occ meeting. TTC Reduction upto 300 MW in the ER-SR corridor during the shut down period	
82	132KV Rangpo-Rangit	2-Dec-20	7:00	2-Mar-21	16:00	ODB	POWERGRID ER-II	For shorting 132KV Rangpo-Gangtok-II with 132KV Rangpo-Rangit at loc 4 for bypassing of Rangpo S/S in order to carry out rectification of MC loc 21 which got bent due to landslide during monsoon.After shorting/S/D return,The line shall become 132KV Rangit-Gangtok(74KM). This arrangement shall continue for 03 months till rectification of lower no 21.	Detailed Work Plan/ Sketch to be submitted	Rangit Rammam and Kerseong Should be available			
83	400KV ICT-1 MAIN BAY(401) at Angul	2-Dec-20	7:00	2-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			May be allowed
84	Jeypore-Rengali Tie Bay (402) at Indravati	2-Dec-20	7:00	2-Dec-20	16:00	ODB	ER-II/Odisha/Indravati	AMP works of Jeypore-Rengali Tie Bay (402) . During this shutdown Power flow will not be Interrupted.	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Both Main bay should be available, at least two dia should be complete			
85	Tie Bay of 400KV Bolangir-Gazuwaka-II Line (414 Bay) at Jeypore	2-Dec-20	7:00	2-Dec-20	16:00	ODB	ER-II/Odisha /Jeypore	For AMP Work of 414 Bay	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Both Main bay should be available, at least two dia should be complete			
86	400 KV Rourkela-Chaibasa # 1 LINE	2-Dec-20	7:00	2-Dec-20	13:00	ODB	ER- II/ODISHA/ROURKELA	FOR TAKING THE LINE REACTOR OUT OF SERVICE FOR GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEAKAGES		Other Ckt should be available			
87	50 MVar, 400 KV CHAIBASA # 1 LINE REACTOR at Rourkela	2-Dec-20	7:00	14-Dec-20	16:00	OCB	ER- II/ODISHA/ROURKELA	GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEAKAGES	Detailed Work Plan to be submitted	Not possible on Same day as Jeypore Indravati			
88	Tie bay 405 of 400KV Sundargarh-Rourkela ckt-2 at Sundargarh	2-Dec-20	7:00	2-Dec-20	16:00	ODB	ER- II/Odisha/Sundargarh	AMP works		Both Main bay should be available, at least two dia should be complete			
89	765KV Sundargarh-Angul Line-II	2-Dec-20	7:00	2-Dec-20	12:00	ODB	ER- II/Odisha/Sundargarh	Guy arrangement works for system improvement		Other Ckt should be available	NLDC		
90	220 KV Purnea(PG)-Begusarai ckt 1	2-Dec-20	7:00	2-Dec-20	16:00	ODB	BSPTCL	For tree pruning and jumper tightening work		Other Ckt should be available		Begusarai will avail power from alternate sources.	Subject to NERPC consent. Location details to be shared.
91	315MVA 400/220KV ICT#2 at BTPS-A, DVC	2-Dec-20	7:00	2-Dec-20	16:00	ODB	S/Y Maintenance, BTPS-A, DVC	for preventive maintenance of Bay		Other ICT(s) Should be available			Subject to NERPC consent. Location details to be shared.
92	220KV Kaniha-TTPS ckt(Loc 29 to 98)	2-Dec-20	7:00	2-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of line		Other Ckt should be available		220KV Rengali PH-Kaniha and 220kV Rengali PH-TTPS ckt will remain in service	
93	Kharagpur- Baripada 400 KV Ckt	2-Dec-20	7:00	2-Dec-20	16:00	ODB	WBSETCL	Main bus-II line & transfer bus isolator maintenance		Other Ckt should be available			May be allowed
94	Jeerat-Rajarhat(PG) 400 KV Ckt	2-Dec-20	7:00	10-Dec-20	16:00	OCB	WBSETCL	Modification of terminal arrangement for construction of proposed 400 KV GIS at Jeerat		Other Ckt should be available			
95	NJP-Binaguri(PG) 220 KV Bus sec-II	2-Dec-20	7:00	2-Dec-20	16:00	ODB	WBSETCL	Annual Maintenance Work (Main Bus Side Isolator, clamps and connectors on Main Bus)		Other Bus Sectionalizer should be available			
96	A/R OF 400 KV D/C Alipurduar-Bongaigaon Ckt-01	2-Dec-20	7:00	2-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
97	400 KV D/C Alipurduar-Bongaigaon Ckt-02	2-Dec-20	7:00	2-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available	NLDC		
98	201- Bay (500 MVA ICT-1 Bay at 220 KV side) at Pusauli	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Other ICT(s) Should be available			
99	765 kV side Main bay of 765/400 KV ICT-1 (703) at Gaya	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		
100	400 KV Bay No.- 414 (Tie Bay of 400 KV 125 Mvar B/R-2 & Future Bay) at Lakhisarai	3-Dec-20	7:00	3-Dec-20	14:00	ODB	POWERGRID ER-1	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			Why D/C line shutdown required??
101	400KV Tie bay(414) of 3 X 500MVA ICT-1 and Ranchi-4 line at New Ranchi	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			Subject to NRPC consent.
102	220 KV NEWPURNEA-PURNEA-1 (201-52) AT NEW PURNEA	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other Ckt should be available			Subject to NRPC consent.
103	TIE BAY OF ICT-2 & RGP-1 (405) AT RANCHI	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			Subject to NRPC consent.
104	220 KV BAY OF ICT 4 BSEB side at Biharsharif	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available			
105	404 DHALKEBAR-1 MAIN BAY AT MUZAFFARPUR	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
106	400 KV D/C SASARAM-ALLAHABAD LINE	3-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	Pollution cleaning at Total 10 locations		Other Ckt should be available	NLDC		
107	A/R OF 400 KV SASARAM-VARANASI LINE	3-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	To facilitate the S/D of 400 KV Sasaram-Allahabad Line		Line Will trip for Transient SLG Fault	NLDC		

108	400 KV BIHARSHARIF - VARANASI CKT- I	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings Total 60 locations. Completed - Nil. To be completed- 40		Other Ckt should be available		
109	A/R OF 400 KV BIHARSHARIF - VARANASI CKT- II	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF - VARANASI CKT- II		Line Will trip for Transient SLG Fault		
110	400KV FILTER-1 Main Bay at Alipurduar	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-II	Bay AMP Work		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete.		
111	80 MVAR Alipurduwar #2 LR at Binaguri	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided		
112	400 KV Binaguri-Tala Line 3	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AA for fixing of span marker/aviation light at section 261-263		Other Ckt should be available	NLDC	
113	220 KV BUS-1 at Rangoo	3-Dec-20	7:00	4-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Other Bus Should be available	Subject to consent from generators/Sikkim WB	ERSS-XX PROJECT
114	220 KV Malda-Gazole-I	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Work		Other Ckt should be available		
115	400 KV S/C FARAKKA SAGARDIGHI-II	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-II	Rectification of Shutdown nature Defects at various locations of Transmission line		Other Ckt should be available		
116	400 KV Bus-1 at Durgapur	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-II	Bus side Isolator alignment works and tightness of Bus.		Other Bus Should be available	WB/DVC	400 KV BUS- II, III & IV shall remain in service.
117	400kV, 50MVAR Gaya-2 LR at Maithon	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work of Line reactor and LR Bay.	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided		
118	220 KV Maithon-Dhanbad I&II	3-Dec-20	8:00	4-Dec-20	18:00	ODB	POWERGRID ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # I Line		Dhanbad Giirdi and Dhanbad CTPS should be available	JSEB	
119	400KV Rajarhat-Jeerat circuit Along with 400KV Jeerat-Bakreshawar and 400KV Jeerat-sagardighi line	3-Dec-20	06:00:00	4-Dec-20	17:00:00	ODB	POWERGRID ER-II	S/D for stringing work of LILO of Subhashgram-Sagardighi at Jeerat.	Detailed Work Plan to be submitted	Other Ckt From Rajarhat and Subhasgram Should be available	WB	ERSS-XV WORK FOR FORMATION OF SGTPP- JEEERAT & JEEERAT-SUBHASGRAM.
120	400 KV S/C Sagardighi - Jeerat TL (PGCL)	3-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-II	Stringing b/w AP 1490 to AP1500 of 765 KV D/C Medinipur-Jeerat TL Over existing 400 KV S/C Sagardighi - Jeerat TL (PGCL)		Sagardighi Subhasgram Should be available	WB	May be allowed
121	A/R in non-auto mode in 400KV Maithon-Jamshedpur TL	3-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-II	For OPGW installation Work under ERSS-XVIII TBCB Project (765KV Ranchi-Midinipur)		Line Will trip for Transient SLG Fault		May be allowed
122	400KV Mejia-Jamshedpur TL	3-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-II	For OPGW installation Work under ERSS-XVIII TBCB Project (765KV Ranchi-Midinipur). For OPGW installation Work in section with old/damaged earthwire		Jamsedpur-Maithon Should be available		
123	TIE BAY (402) OF 400KV ICT-1 & BOLANGIR LINE at Angul	3-Dec-20	7:00	3-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Both Main bay should be available, at least two dia should be complete		
124	Main Bay of 315 MVA ICT-2(404 BAY) at Bolangir	3-Dec-20	7:00	3-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 404 52CB & 404 CT	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
125	220 KV Bus-Coupler Bay (Bay No-204) at Rengali	3-Dec-20	7:00	3-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP & Isolator alignment work and interlock checking		Element Should be equally districted on Each Bus		
126	Main bay 406 of 765/400KV 1500MVA ICT- 2 at Sundargarh	3-Dec-20	7:00	3-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC	
127	765KV Sundargarh-Angul Line-III	3-Dec-20	7:00	3-Dec-20	12:00	ODB	ER-II/Odisha/Sundargarh	Guy arrangement works for system improvement		Other Ckt should be available	NLDC	
128	220 KV Muzafferpur(PG)-Hazipur D/C T/L	3-Dec-20	7:00	3-Dec-20	14:30	ODB	BSPTCL	For stringing work of 220 KV Muz(PG)-Goraul D/C T/L		Other Ckt should be available		Hajipur will avail restricted power from BTPS
129	220 KV Gaya(PG)-Dehri ckt 1 and ckt 2	3-Dec-20	7:00	3-Dec-20	15:00	ODB	BSPTCL	For safety purpose during OPGW installation		Other Ckt should be available		Dehri will avail power from Pushauli(PG)
130	400KV Bus-II at Meramundali	3-Dec-20	7:00	3-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other Bus Should be available		All the feeders shall remain in service through 400KV Bus-I, 220KV Bolangir New-Bolangir PG ckt-II and 220KV New Bargarh-New Bolangir ckt will remain in service to meet Load demand.
131	220KV Bolangir New-Bolangir PG ckt-I	3-Dec-20	7:00	3-Dec-20	14:00	ODB	GRIDCO	Replacement of B-Phase wavetrap jumper of the circuit.		Other Ckt should be available		Subject to NERPC consent. Location details to be shared.
132	220KV Rengali S/Y-Rengali PG ckt-I	3-Dec-20	7:00	3-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of line		Other Ckt should be available		Subject to NERPC consent.
133	315 MVA IBT-1 at BKTTP	3-Dec-20	7:00	5-Dec-20	16:00	ODB	WBSETCL	Winter maintenance- PM of 29C & D Isolator, 400KV & 220 KV- CT & Bushing Tan Delta, LA & Breaker Timming-CRM, Winding Resistance & Incipient Fault Interlock checking		Other ICT(s) Should be available		
134	315 MVA ICT-1 at Jeerat	3-Dec-20	7:00	3-Dec-20	15:00	ODB	WBSETCL	Tan delta testing of TR & related CTs		Other ICT(s) Should be available		
135	Jeerat-SGTTP 400 KV Ckt	3-Dec-20	7:00	3-Dec-20	16:00	ODB	WBSETCL	Works related to const. of proposed 400 KV GIS at JRT		Sagardighi Subhasgram Should be available		May be allowed
136	NJP-Binaguri(PG) 220 KV Bus sec-I	3-Dec-20	7:00	3-Dec-20	16:00	ODB	WBSETCL	Annual Maintenance Work (Main Bus Side Isolator, clamps and connectors on Main Bus)		Other Bus Section Should be available		
137	400 KV D/C Alipurduar-Bongaigaon Ckt-01	3-Dec-20	7:00	3-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available	NLDC	
138	A/R OF 400 KV D/C Alipurduar-Bongaigaon Ckt-02	3-Dec-20	7:00	3-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault		
139	400 KV Farakka-Malda line#2	3-Dec-20	7:00	4-Dec-20	16:00	OCB	NTPC FARAKKA	Annual testing of CB,CT, relay		After Revival of Farakka-Purnea		
140	400 KV Bus-1 at Durgapur	3-Dec-20	7:00	3-Dec-20	16:00	ODB	POWERGRID ER-II	Bus side Isolator alignment works and tightness of Bus.		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,		
141	203-Bay (500 MVA ICT-2 Bay at 220 KV side) at Pusauli	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		ICT may be charged through Transfer Bus		Subject to NRPC consent.
142	765 kV Main bay of 765 kV BR-2 (704) at Gaya	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC	Subject to NRPC consent.
143	220KV JUSNL Line 1 MAIN BAY (202) at Chaibasa	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Element to be kept Charged with Transfer Bus		Subject to NRPC consent.
144	Main bay(409) of 400 KV Ranchi 2 line at New Ranchi	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		Subject to NRPC consent.
145	MAIN BAY OF 400 KV MUZAFFARPUR-2 (409- 52) AT NEW PURNEA	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
146	400KV RNC-MAITHON (RIGHT BANK)-2 TL	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of flashed insulator.		Other Ckt should be available	MPL	
147	405 DHALKEBAR-1-ICT-2 TIE BAY AT MUZAFFARPUR	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete		
148	400 KV BIHARSHARIF - VARANASI CKT- II	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings Total 60 locations. Completed - Nil. To be completed- 40		Other Ckt should be available		
149	A/R OF 400 KV BIHARSHARIF - VARANASI CKT- I	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF - VARANASI CKT- II		Line Will trip for Transient SLG Fault		
150	400KV PATNA-BALIA CKT 1	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	Insulator Washing at 03 locations		Other Ckt should be available	NLDC	Subject to Bhutan consent.

151	A/R OF 400KV PATNA-BALLIA CKT 2	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D OF 400 KV PATNA-BALLIA-1		Line Will trip for Transient SLG Fault	NLDC		
152	400KV Koderma - Bharsarif-II	4-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-I	S/D for changing porcelain insulator by polymer insulator.		Other Ckt should be available			
153	A/R of 400kV Koderma - Bharsarif-I	4-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-I	A/R in non-auto mode for replacement work.		Line Will trip for Transient SLG Fault			
154	132 KV Darbhanga Samastipur	4-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID, ER-I	Power line crossing of Sitamarhi Darbhanga T/L		Other Ckt should be available	BSEB		
155	220 kV ARA Nadokar D/C	4-Dec-20	7:00	11-Dec-20	16:00	OCB	POWERGRID, ER-I	LILO OF 220 KV Ara Nadokar AT Dumraon sub-station.	Detailed Work Plan to be submitted	PusaInNadokar Should be available	BSEB		
156	400kV Biharsharif Iakhsisarai ckt 1	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of flashed insulator.		Other Ckt should be available			
157	400 KV Binaguri-Tala Line 4	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AAI for fixing of span marker/aviation light at section 281-283		Other Ckt should be available	NLDC		
158	220 Kv Bus Section bay at Durgapur	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-II	CB spring mechanism overhauling & AMP work		All feeder may be shifted to one bus as equal distribution of feeder may not be possible in case of high line loading		220KV Bus-1 & 2 shall remain in service.	Approved in SRPC occ meeting. TTC Reduction upto 300 MW in the ER-SR corridor during the shut down period
159	400KV Maithon-Durgapur#2 line	4-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-II	Internal inspection/Overhauling of interrupter of 400kV CB of Main Bay.	Why line outage required when Tie bay is there?	Other Ckt should be available			
160	400KV BOLANGIR LINE MAIN BAY (403) at Angul	4-Dec-20	7:00	4-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th QCC)	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
161	3X16.67 MVAR KEONJHAR LINE REACTOR at Baripada	4-Dec-20	7:00	4-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	May be availed after winter will be reviewed in Feb'21 QCC)	Reactor shutdown in lean winter season should be avoided			
162	400/220KV ICT#2 at Indravati	4-Dec-20	7:00	4-Dec-20	16:00	ODB	ER-II/Odisha/Indravati	AMP works of ICT#2. Checking of the Aircell of conservator Tank. During this shutdown Power flow from ICT#2 will be interrupted.	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th QCC)	Other ICT(s) Should be available	GRIDCO/NLDC		May be allowed
163	400KV ICT#2 Main Bay (403) at OHPC S/Y	4-Dec-20	7:00	4-Dec-20	16:00	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. No Tie bay is in service at OHPC Yard.	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th QCC)	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
164	220KV ICT#2 Main Bay (205) at OHPC S/Y	4-Dec-20	7:00	4-Dec-20	16:00	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. No Transfer Bay is in service at OHPC Yard.		Element to be kept charged with Transfer Bus			
165	FSC Gazuwaka-I	4-Dec-20	7:00	7-Dec-20	16:00	OCB	ER-II/Odisha /Jeypore	For testing of FSC Equipments for refurbishment of FSC GAZ-I. Outage to be booked under construction head.	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th QCC)	Other ICT(s) Should be available			
166	220KV Keonjhar (PG)- Optcl (Rank) Line II	4-Dec-20	7:00	4-Dec-20	16:00	ODB	Keonjhar	AMP WORKS (FY 2020-21)		Other Ckt should be available			
167	400 kV Rourkela-Sundergarh 3 Line	4-Dec-20	7:00	4-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS of 419 L Bay, 419 R Bay & 63 MVar Line Reactor		Other Ckt should be available			
168	Main bay 407 of 400KV Sundargarh-Raigarh ckt-I at Sundargarh	4-Dec-20	7:00	4-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
169	765KV Sundargarh-Angul Line-IV	4-Dec-20	7:00	4-Dec-20	12:00	ODB	ER-II/Odisha/Sundargarh	Guy arrangement works for system improvement		Other Ckt should be available	NLDC		
170	220 KV Patna(PG)-Khagaul ckt 1	4-Dec-20	7:00	4-Dec-20	14:00	ODB	BSPTCL	For replacement of defective Distance Protection Relay		Other Ckt should be available			
171	220KV Kaniha-TTPS ckt(Loc 29 to 98)	4-Dec-20	7:00	4-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of line		Other Ckt should be available			
172	220KV Bolangir New-Bolangir PG ckt-II	4-Dec-20	7:00	4-Dec-20	14:00	ODB	GRIDCO	Testing of Main-II DP relay of the circuit		Other Ckt should be available			
173	400KV Mendhasal- Meramundali ckt-II	4-Dec-20	7:00	4-Dec-20	16:00	ODB	GRIDCO	Line isolator alignment and overhauling at Meramundali end.		Other Ckt should be available			
174	Kharagpur-Chalbasa 400 KV Ckt 1	4-Dec-20	7:00	4-Dec-20	16:00	ODB	WBSETCL	Main bus-II ,line & transfer bus isolator maintenance		Other Ckt should be available			
175	315 MVA ICT-3 at Jeerat	4-Dec-20	7:00	4-Dec-20	15:00	ODB	WBSETCL	Tan delta testing of TR & related CTs		Other ICT(s) Should be available			
176	NJP-Binaguri(PG) 220 KV Bus sec-II	4-Dec-20	7:00	4-Dec-20	16:00	ODB	WBSETCL	Annual Maintenance Work (Main Bus Side Isolator, clamps and connectors on Main Bus)		Other Bus Section Should be available			May be allowed
177	400 KV MB-I at Bidhannagar	4-Dec-20	7:00	4-Dec-20	15:00	ODB	WBSETCL	Scissor replacement of main bus-1 (B-phase) pantograph isolator (689A) along with trapezoidal hanger adjustment i.r.o. 400KV PGCL-1(Main bus-I)		Other Ckt should be available	WB/DVC		
178	400 KV bay of Durgapur(PG) Ckt 1 at Bidhannagar	4-Dec-20	7:00	4-Dec-20	15:00	ODB	WBSETCL	Scissor replacement of main bus-1 (B-phase) pantograph isolator (689A) along with trapezoidal hanger adjustment i.r.o. 400KV PGCL-1(Main bus-I)		Line may be charged through transfer Bus			
179	Bidhannagar-New Chanditala 400 KV Ckt	4-Dec-20	7:00	4-Dec-20	15:00	ODB	WBSETCL	B-phase Main bus-1 pantograph isolator adjustment work (289A) i.r.o. 400KV New-Chanditala(Main bus-I)		Other Ckt should be available			
180	A/R OF 400 KV D/C Alipurdwar-Bongaigaon Ckt-01	4-Dec-20	7:00	4-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
181	400 kV D/C Alipurdwar-Bongaigaon Ckt-02	4-Dec-20	7:00	4-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available	NLDC		
182	220 KV S/C Tenughat-PTPS S/C	4-Dec-20	7:00	4-Dec-20	16:00	ODB	JUSNL	STRENGTHENING OF JUMPER between location no. 15 to 25		Ranchi-Hatia T/C and TTPS-Biharsariff Should be available			TTPS subject to availability of single unit of Tenughat
183	220 Kv Bus Section bay at Durgapur	4-Dec-20	7:00	4-Dec-20	16:00	ODB	POWERGRID ER-II	CB spring mechanism overhauling & AMP work		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,			
184	220KV Budhipadar-Raigarh(earlier Budhipadar-Korba ckt-I)	4-Dec-20	7:00	5-Dec-20	16:00	ODB	OPTCL	Stringing of earth wire in between Loc 5 and Loc 8A)		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,		220KV Budhipadar-Korba ckt-II(earlier Budhipadar-Korba ckt-II) will remain in service	
185	220KV Budhipadar-Korba ckt-(earlier Budhipadar-Korba ckt-II)	4-Dec-20	7:00	5-Dec-20	16:00	ODB	OPTCL	Stringing of earth wire in between Loc 5 and Loc 8A) & Annual maintenance of the line		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,		220KV Budhipadar-Korba ckt-II(earlier Budhipadar-Korba ckt-II) will remain in service	Subject to NRPC consent.
885	132kV D/C Motihari (DMTCL)-Raxaul (BSPTCL)	4-Dec-20	8:00	5-Dec-20	16:00	ODB	POWERGRID ER-I	POWER LINE CROSSING OF 400 KV SITAMARHI MOTIHARI D/C LINE UNDER TBCB		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,	BSEB		Subject to NRPC consent.
186	765 kV Main bay of 765 kV Gaya-ballia Line (707) at Gaya	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		

187	400 KV Gaya -Nabinagar Ckt-1 Transmission Line	5-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-1	For Charging of LILO Chandauti Substation.	Detailed Work Plan to be submitted	NGPC Patna Should be available	BSEB		Subject to NERPC consent.
188	400 KV Gaya -Nabinagar Ckt-2 Transmission Line	5-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-1	For Charging of LILO Chandauti Substation.	Detailed Work Plan to be submitted	NGPC Patna Should be available	BSEB		
189	400 kv Bay No.- 415 (Main Bay of 125 MVAR B/R-2) at Lakhisarai	5-Dec-20	7:00	5-Dec-20	14:00	ODB	POWERGRID ER-1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
190	BAY-414 - 400KV TIE BAY OF FUTURE & ICT-III AT BANKA S/S	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			
191	220KV JUSNL Line 2 MAIN BAY (203) at Chaibasa	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Element to be kept Charged with Transfer Bus			
192	400KV BUS-2 AT NEW PURNEA	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other Bus Should be available	BSEB		
193	400 KV D/C SASARAM-VARANASI LINE	5-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-I	Pollution cleaning at Total 10 locations		Other link between ER and NR should be available			
194	A/R OF 400 KV SASARAM-ALLAHABAD LINE	5-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-I	To facilitate the S/D of 400 KV Sasaram-Varanasi Line		Line Will trip for Transient SLG Fault	NLDC		
195	400 KV BIHARSHARIF - VARANASI CKT- I	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings Total 60 locations. Completed - Nil; To be completed- 40		Other Ckt should be available	NLDC		
196	A/R OF 400 KV BIHARSHARIF - VARANASI CKT- II	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF - VARANASI CKT- I		Line Will trip for Transient SLG Fault	NLDC		
197	400KV Tie bay of Bus Reactor 2 & Kishanganj # 2 at Binaguri	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Both Main bay should be available, at least two dia should be complete			
198	400 KV Binaguri-Bonagaigaon Line 1	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AA for fixing of span marker/aviation light at section 484-485		Other Ckt should be available	NLDC		
199	132 kv Rangpo-Chuzachen Line -1	5-Dec-20	7:00	5-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Works		Other Ckt should be available			
200	220 KV BUS-2 at Rangpo	5-Dec-20	7:00	6-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Other Bus Should be available	Subject to consent from generators/Sikkim	ERSS-XX PROJECT	
201	400/220KV 315 MVA ICT-3 at Malda	5-Dec-20	7:00	4-Feb-21	16:00	OCB	POWERGRID ER-II	ERSS-XVII-B Constructional work	Detailed Work Plan to be submitted	Other ICT(s) Should be available	WB	NLDC	
202	400KV Maithon-Right Bank # II	5-Dec-20	7:00	19-Dec-20	16:00	OCB	POWERGRID ER-II	Re conducting work	Detailed Work Plan to be submitted/ May be availed when one MPL unit is under overhauling	Other Ckt should be available	MPL		
203	400KV Maithon-Right Bank # I	5-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-II	To be kept in Non-Auto Mode during reconducting of 400KV Maithon- RB# II line for safety measure		Line Will trip for Transient SLG Fault	MPL		
204	400KV Maithon-Kahalgaon I & II	5-Dec-20	7:00	6-Dec-20	16:00	OCB	POWERGRID ER-II	PL Crossing during Re-conducting work of Maithon - Right Bank # I Line		Maithon-Durgapur D/C should be available			
205	400kv Main bay of Maithon-2 at MPL	5-Dec-20	7:00	19-Dec-20	16:00	OCB	POWERGRID ER-II	Upgradation of Bay equipments under ERSS-XVII Project work. Shut down of Bays proposed in respect of line shut down for reconducting work.	Detailed Work Plan to be submitted	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
206	400/220KV , 500MVA ICT-2 along with 400KV Main Bus Bar-2 and 220KV Bus Bar-2 at Rajarhat	5-Dec-20	09:00:00	6-Dec-20	17:00:00	ODB	POWERGRID ER-II	Construction pending point implementation under construction activity.		Other ICT(s) Should be available	WB		
207	400KV BUS REACTOR-3 MAIN BAY (404) at Angul	5-Dec-20	7:00	5-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			Subject to NERPC consent. Location details to be shared.
208	40352- Main Bay of 315MVA ICT I at Barpada	5-Dec-20	7:00	5-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
209	Tie Bay of 315 MVA ICT-2 and 400KV Balangir- Jeyepore Line (40304 BAY) at Bolangir	5-Dec-20	7:00	5-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 40304 52CB & 40304 CT	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Both Main bay should be available, at least two dia should be complete			
210	400 KV Keonjhar Main Bay (Bay No-401) at Rengali	5-Dec-20	7:00	5-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP & Isolator alignment work and interlock checking		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
211	400 KV Rourkela-Chaibasa # 1 LINE	5-Dec-20	7:00	5-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	FOR DISMANTALING OF REACTOR BUSHINGS (SHUTDOWN BEING AVAILED AS CLEARANCE IS LESS)		Other Ckt should be available			
212	Tie bay 408 of 400KV Sundargarh-Raigarh ckt-1 at Sundargarh	5-Dec-20	7:00	5-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Other Ckt should be available			Subject to NRPC consent.
213	400KV TISCO(DVC)-Jamshedpur PG	5-Dec-20	7:00	5-Dec-20	16:00	ODB	TISCO 400KV	for Line side relay testing & A/R operation checking for 405 Breaker at BPRS substation.		Other Ckt should be available			Subject to NRPC consent.
214	220KV Rengali S/Y-Rengali PG ckt-II	5-Dec-20	7:00	5-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of line		Other Ckt should be available		220kv Rengali S/Y- Rengali PG ckt-I will remain in service	
215	400 KV Main Bus-I at BKTPP	5-Dec-20	7:00	6-Dec-20	16:00	ODB	WBSETCL	Winter maintenance of 400kv side 29A Isolator of IBT-1, IBT-2 & Main Bus-1 Bays excluding GTs'		Other Bus Should be available			
216	400 KV MB-II at Bidhannagar	5-Dec-20	7:00	5-Dec-20	15:00	ODB	WBSETCL	Main bus-2 (B-phase) conductor repairing work i.r.o. 400KV PPSP-2		Other Bus Should be available	DVC		
217	400 KV bay of PPSP Ckt 2 at Bidhannagar	5-Dec-20	7:00	5-Dec-20	15:00	ODB	WBSETCL	Main bus-2 (B-phase) conductor repairing work i.r.o. 400KV PPSP-3		Line to be Chared with Transfer bay			
218	400 kv D/C Alipurduar-Bongaigaon Ckt-01	5-Dec-20	7:00	5-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available	NLDC		
219	A/R OF 400 kv D/C Alipurduar-Bongaigaon Ckt-02	5-Dec-20	7:00	5-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
220	400KV Varanasi East Line Reactor Bay (CWL39Q50) at Pusauli	6-Dec-20	7:00	9-Dec-20	16:00	OCB	POWERGRID ER1	Overhauling of CWL39Q50-Y phase Pole		Reactor shutdown in lean winter season should be avoided			
221	BAY-415 - 400KV MAIN BAY OF 315 MVA ICT-III AT BANKA S/S	6-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
222	Main Bay ICT 3 (410 no. Bay) at Biharsharif	6-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			Subject to NERPC consent. Location details to be shared.
223	400 KV BIHARSHARIF - VARANASI CKT- II	6-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings Total 60 locations. Completed - Nil; To be completed- 40		Other Ckt should be available			May be allowed
224	A/R OF 400 KV BIHARSHARIF - VARANASI CKT- I	6-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF - VARANASI CKT- II		Line Will trip for Transient SLG Fault			May be allowed
225	220/132 KV 160 MVA ICT-IV at Malda	6-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-II	220KV Side BCU Rectification (209 bay)		Other ICT(s) Should be available	WB		
226	220KV Maithon-Kalyenswari line-1	6-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Other Ckt should be available			
227	315MVA ICT#3 at Subhasgram	6-Dec-20	7:00	6-Dec-20	16:00	ODB	POWERGRID ER-II	Bay Upgradation Work Under ERSS-XVIII - Differential & REF Stability Test w.r.t to new Tie CT (408 CT) & Scheme checking	Detailed Work Plan to be submitted	Other ICT(s) Should be available	WB	315 MVA ICT#3 will be under Shutdown.	
228	A/R in non-auto mode in 400KV Andai-Jamshedpur-II	6-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	For OPGW installation Work in MultiCkt portion under ERSS-XVIII TBCB Project (765KV Ranchi-Midnapur)		Line Will trip for Transient SLG Fault			
229	220 KV Muzafferpur(PG) -MTPS D/C T/L	6-Dec-20	7:00	6-Dec-20	14:30	ODB	BSPTCL	For stringing work of 220 KV Muz(PG)-Goraul D/C T/L		Other Ckt should be available		MTPS will avail power from Molipur	

230	220KV Katapalli - Bolangir PG	6-Dec-20	7:00	6-Dec-20	14:00	ODB	GRIDCO	Trimming of tree branches in between location No-325-326		Other Ckt should be available	220KV Balangir New-Bargarh New-Katapali ckt will remain in service to meet the load	Subject to NRPC consent.
231	315 MVA IBT-2 at BKTTP	6-Dec-20	7:00	8-Dec-20	16:00	ODB	WBSETCL	Winter maintenance- PM of 29C & D Isolator, 400KV & 220 KV- CT & Bushing Tan Delta, LA & Breaker Trimming-CRM, Winding Resistance & Incipient Fault Interlock checking.				Subject to NRPC consent.
232	A/R OF 400 KV D/C Alipurduar-Bongaigaon Ckt-01	6-Dec-20	7:00	6-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault		
233	400 kV D/C Alipurduar-Bongaigaon Ckt-02	6-Dec-20	7:00	6-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available	NLDC	
234	765 kV Tie bay of 765 kV Gaya-Ballia Line (708) at Gaya	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete	NLDC	
235	765 kV Tie bay(702) of 3 X 500MVA ICT-1 and Future at New Ranchi	7-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete	NLDC	
236	220 KV BUS-1 AT NEW PURNEA S/S	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other Bus Should be available	BSEB	Subject to Bhutan consent
237	400/220KV 315MVA ICT-2 AT RANCHI	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available	BSEB	
238	400 KV KAHALGAON- LAKHISARAI CKT I	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Insulator at SH-84 crossing loc. No. 39 & 40		Other Ckt should be available		is BNC Pole-1 & Agra pole-3 also under S/D?? Subject to NERPC, NRPC consent.
239	400KV Koderma - Biharsarif-I	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAL/POWERLINE crossing		Other Ckt should be available		
240	A/R OF BIHARSHARIF- KODERMA CKT-II	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAL/POWERLINE crossing		Line Will trip for Transient SLG Fault		
241	400KV PATNA-BALIA CKT 2	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	Insulator Washing at 02 locations		Other Ckt should be available		
242	A/R OF 400KV PATNA-BALIA CKT 1	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D OF 400 KV PATNA-BALLIA-2		Line Will trip for Transient SLG Fault		
243	400KV Koderma - Bokaro-I	7-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	S/D for changing porcelain insulator by polymer insulator.	Detailed Work Plan to be submitted	Other Ckt should be available	DVC	
244	A/R of 400KV Koderma - Bokaro-II	7-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	A/R in non-auto mode for replacement work.		Line Will trip for Transient SLG Fault		
245	400KV Biharsharif-Sasaram line 1	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of flashed insulator.		Other Ckt should be available		
246	220/132 KV 160 MVA ICT-1 at Birpara	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Other ICT(s) Should be available	WB	
247	400KV TALA-BINAGURI-III	7-Dec-20	7:00	16-Dec-20	16:00	ODB	POWERGRID ER-II	Procelin Insulator replacement with CLR Polymer Insulator works at major crossing span	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available	NLDC	
248	400KV Main bay of Bus Reactor 2 at Binaguri	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		May be allowed
249	800 KV HVDC Alipurduar-Agra Pole-1	7-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AAI for fixing of span marker/aviation light at section 1352-1357				
250	132KV Gangtok-Rangpo-II Line	7-Dec-20	7:00	7-Dec-20	14:00	ODB	POWERGRID ER-II	S/D for AMP Works		Other Ckt should be available		
251	220kv Rangpo -New Meli	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Works		Tashing link should be available		
252	132 KV BUS-1 at Rangpo	7-Dec-20	7:00	8-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Other Bus Should be available/ Rangpo is operating as split bus mode. During outage of one Bus , other elements including Chuzachen shall remain on one Bus. 220/132 kv icts at Rangpo may be opened. In case outage of other bus Gangtok load and chuzachen generation will be out.	Subject to consent from generators/Sikkim	ERSS-XX PROJECT
253	132 KV Rangpo-Meli	7-Dec-20	7:00	10-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted			ERSS-XX PROJECT
254	400 KV S/C FARAKKA SAGARDIGH-I	7-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	Replacement of Broken Glass disc Insulators at various locations in Transmission line.	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available		
255	220KV Maitihon-Dumka line-2	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Other Ckt should be available		
256	400KV Maitihon-Durgapur I & II	7-Dec-20	7:00	8-Dec-20	16:00	OCB	POWERGRID ER-II	PL Crossing during Re-conducting work of Maitihon - Right Bank # I Line		Other Ckt should be available		
257	315MVA ICT#4 at Subhasgram	7-Dec-20	7:00	7-Dec-20	16:00	ODB	POWERGRID ER-II	Bay Upgradation Work Under ERSS-XVIII - Differential & REF Stability Test w.r.t to new Tie CT (410 CT) & Scheme checking	Detailed Work Plan to be submitted	Other ICT(s) Should be available	WB	315 MVA ICT#4 will be under Shutdown.
258	Tapping point of 400 KV D/C MID-KGP- CHANDITALA LILO LINE-(TL-56/0 &55/0)	7-Dec-20	7:00	14-Dec-20	16:00	OCB	POWERGRID ER-II	LILO Line tapping of 400KV Medinipur - Kharagpur & Medinipur Chanditala (Powergrid Line to WBSETCL line) Trans. Line	Detailed Work Plan to be submitted	Which line SD is required is not clear	WB	Tapping of LILO line from Medinipur 765/400KV S/S to 400KV Kharagpur - New Chanditala WBSETCL Trans. Line
259	765/400KV, 3*500MVA ICT-1 at Angul	7-Dec-20	7:00	7-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP		Other ICT(s) Should be available	NLDC	
260	40452- 400KV Kharagpur Line Main Bay at Baripada	7-Dec-20	7:00	7-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
261	50 MVAR Angul Line Reactor at Balangir Substation.	7-Dec-20	7:00	7-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 50MVAR angul Line Reactor and AMP for 401R 52CB.	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided		
262	Bay No 418 - Main Bay of Sundergarh 1 at Rourkela	7-Dec-20	7:00	7-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
263	Tie bay 411 of 400KV Sundargarh-Rourkela ckt-1 at Sundargarh	7-Dec-20	7:00	7-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Both Main bay should be available, at least two dia should be complete		
264	220 KV Dehri-Pushauli(PG) S/C T/L	7-Dec-20	7:00	8-Dec-20	16:00	ODB	BSPTCL	For winter maintenance work		Gaya Dehri Should be available		Dehri will avail power from alternate sources.
265	220 KV DMTCL(Darbhangha)-Laukahi D/C T/L	7-Dec-20	7:00	10-Dec-20	16:00	ODB	BSPTCL	For winter maintenance work		Other Ckt should be available		Laukahi will avail power from alternate sources
266	132 KV Rajgir-Barhi S/C T/L	7-Dec-20	7:00	12-Dec-20	16:00	OCB	BSPTCL	For tower maintenance work at loc no 58		Other Source to Barhi Should be available	DVC	Rajgir will avail power from BSF.
267	133 KV Nalanda-Barhi S/C T/L	7-Dec-20	7:00	12-Dec-20	16:00	OCB	BSPTCL	For tower maintenance work at loc no 59		Other Source to Rajgir should be available	DVC	Nalanda will avail power from BSF.
268	220 KV DMTCL(Darbhangha)-Motipur ckt 1	7-Dec-20	7:00	7-Dec-20	16:00	ODB	BSPTCL	For stringing work of 220 KV Sitamarhi(New)-Motipur D/C T/L.		Other Ckt should be available		Motipur GSS will avail power from MTPS
269	220 KV DMTCL(Darbhangha)-Darbhanga ckt 1	7-Dec-20	7:00	7-Dec-20	16:00	ODB	BSPTCL	For line and bay maintenance work		Other Ckt should be available		Darbhangha will avail power DMTCL(D) ckt 2
270	220 KV Kishanganj(PG)-Kishanganj (New) ckt 3 and ckt 4	7-Dec-20	7:00	8-Dec-20	16:00	ODB	BSPTCL	For Jumper tightening work		Other Ckt should be available		Kishanganj(New) will avail power from Kishanganj(PG) ckt 1 and ckt 2
271	400KV Main Bus#1 at MTPS S/Y, DVC	7-Dec-20	7:00	11-Dec-20	16:00	OCB	S/Y Maintenance, MTPS, DVC	Preventive maintenance of Isolator-As of all lines, G7#7&8 & Bus Tie		Other Bus Should be available		Deatiled activity Plan attached
272	220KV Jamshedpur-Jindal Tie	7-Dec-20	7:00	7-Dec-20	16:00	ODB	GOMD-III, Jamshedpur, DVC	Disc insulator replacement work at loc no. 44,56 & 62		Both Main bay should be available, at least two dia should be complete		
273	Kharagpur- New Chanditala 400 KV Ckt	7-Dec-20	7:00	7-Dec-20	16:00	ODB	WBSETCL	Tree trimming, Main bus-II isolator maintenance		Other Ckt should be available		
274	315 MVA ICT-2 at Jeerat	7-Dec-20	7:00	7-Dec-20	15:00	ODB	WBSETCL	Tan delta testing of TR & related CTs		Other ICT(s) Should be available		
275	400 KV BARH PATNA LINE # 3	7-Dec-20	7:00	9-Dec-20	16:00	OCB	NTPC BARH	For Auto Reclose relay testing & Other testing and Annual maintenance of Bay equipments.		Other Ckt should be available		

276	400 KV Farakka-Kahalgaon line#1	7-Dec-20	7:00	8-Dec-20	16:00	OCB	NTPC FARAKKA	Annual testing of CB,CT, relay and retrofitting of LBB relay		Other Ckt should be available Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays			
277	400KV MAIN BUS-1 & 400KV BUS COUPLER BAY AT GOKARNA	7-Dec-20	6:00	7-Dec-20	16:00	ODB	WB	For erection work i.r.o. 315MVA ICT-3 HV Bay equipment and winter maintenance work at 400KV Main Bus 1 Side at Gokarna 400KV		Other Ckt should be available Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays			
278	132 KV Ara Dumraon at Ara	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Other Ckt should be available	BSEB		Subject to WRPC consent.
279	400KV, BR-1 & BR-3, Main Bay (412) Jat Jamshedpur	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			Subject to WRPC consent.
280	205-Bay (Pusauli-Sahupuri Line) at Pusauli	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Line may be Charged through Transfer Bus			
281	765 kV Tie bay of 765 kV Gaya-Varanasi Line-2 (714) at Gaya	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete	NLDC		
282	132 KV Bay No.- 107 (Main Bay & Line Bay of 132 KV LKR-LKR-1) at Lakhisarai	8-Dec-20	7:00	8-Dec-20	14:00	ODB	POWERGRID ER-1	FOR AMP WORK		Element to be Kept Charge with Transfer Bus			
283	400KV MAIN BUS-I AT BANKA S/S	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Other Bus Should be available	BSEB		
284	400KV ICT 2 Main Bay bay no 409) at Patna	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
285	220KV ICT1 SIDE BAY (204) at Chaibasa	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Elemtn may be charged with Transfer Bus			
286	220 KV BUS-2 AT NEW PURNEA S/S	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other Bus Should be available	BSEB		
287	400KV Koderma - Biharsarif-II	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing		Other Ckt should be available			Subject to NERPC, NRPC consent.
288	A/R OF BIHARSHARIF- KODERMA CKT-I	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing		Line Will trip for Transient SLG Fault			May be allowed
289	416 BIHARSARIF-2 MAIN BAY AT MUZAFFARPUR	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			May be allowed
290	400 KV RANCHI-SIPAT-II	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	For flashed insulator rectification at loc 1097, 811 and 1104.		Other Ckt should be available			
291	A/R OF 400 KV RANCHI-SIPAT-I	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE THE S/D OF CKT-II.		Line Will trip for Transient SLG Fault			
292	400KV FILTER-2 Main Bay at Alipurduar	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-II	Bay AMP Work		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
293	220/ 132 KV 160 MVA ICT-II at Birpara	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Other ICT(s) Should be available	WB		
294	132KV BUS sectionalizer -1 at Rangpo	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Works		Nil			
295	400KV BUS-II at Malda	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-II	ERSS-XVII-B Constructional work (400KV TBC)	Detailed Work Plan to be submitted	Other Bus Should be available	WB		
296	50 MVAR Bus Reactor-I & 125 MVAR Bus Reactor-II at Durgapur	8-Dec-20	7:00	8-Dec-20	16:00	ODB	POWERGRID ER-II	BR-I & II AMP works	May be availed after winter (will be reviewed in Feb'21 QCC)	Reactor shutdown in lean winter season should be avoided		125 MVAR BR-III & IV shall remain in service	
297	220 KV D/C Arambag - Damjur TL (WBSETCL)	8-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	Stringing b/w AP 35/0 to 36/0 of 765 KV D/C Medinipur- Jeerat TL Over existing 220 KV D/C Arambag - Damjur TL		Other Ckt should be available	WB		
298	220 KV S/C Arambag - Rishra TL (WBSETCL)	8-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	Stringing b/w AP 36/0 to 37/0 of 765 KV D/C Medinipur- Jeerat TL Over existing 220 KV S/C Arambag - Rishra TL		Other Ckt should be available	WB		
299	800KV HVDC Alipurduar - BNC POLE 1	8-Dec-20	7:00	13-Dec-20	16:00	OCB	POWERGRID NER	Earthwire stringing of 5 Km length between section from Loc. 452 to 456, 585 -592, 592 - 593 and Loc.593 - 594 which could not be completed during commissioning phase , due to severe Law and order situation. Shutdown dates may be preponed or postponed as the same is depended upon availability of security personnels and messigstrate from state administration and from respective districts.	Detailed Work Plan to be submitted	Other Pole should be available			
300	765/400KV, 3*500MVA ICT-2 at Angul	8-Dec-20	7:00	8-Dec-20	14:00	ODB	ER-II/Odisha/Angul SS	AMP		Other ICT(s) Should be available	NLDC		
301	FSC Gazuwaka-II	8-Dec-20	7:00	11-Dec-20	16:00	OCB	ER-II/Odisha /Jeypore	For testing of FSC Equipments for refurbishment of FSC GAZ-II . Outage to be booked under construction head.	Detailed Work Plan to be submitted	Other Ckt should be available			
302	400 KV, 315 MVA ICT #2 Main Bay (Bay No- 409) at Rengali	8-Dec-20	7:00	8-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP & Isolator alignment work and interlock checking	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
303	Bay No 421 - Main Bay of Ranchi 2 at Rourkela	8-Dec-20	7:00	8-Dec-20	16:00	ODB	ER- II/ODISHA/ROURKELA	AMP WORKS		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
304	Main Bay 707 of 765KV Sundargarh-Angul ckt-4 at Sundargarh	8-Dec-20	7:00	8-Dec-20	16:00	ODB	ER- II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		
305	220 KV Gaya(PG)-Dehri ckt 1	8-Dec-20	7:00	9-Dec-20	16:00	ODB	BSPTCL	For winter maintenance work		Dehri Pusauli Should be available		Dehri will avail power from alternate sources.	
306	220 KV Gaya(PG)-Dehri ckt 2	8-Dec-20	7:00	8-Dec-20	16:00	ODB	BSPTCL	For winter maintenance work		Dehri Pusauli Should be available		Dehri will avail power from alternate sources.	
307	220 KV DMTCL(Darbhanga)-Motipur ckt 2	8-Dec-20	7:00	8-Dec-20	16:00	ODB	BSPTCL	For stringing work of 220 KV Sitamarhi(New)-Motipur D/C T/L		Other Ckt should be available		Motipur GSS will avail power from MTPS	
308	220 KV DMTCL(Darbhanga)-Darbhanga ckt 2	8-Dec-20	7:00	8-Dec-20	16:00	ODB	BSPTCL	For line and bay maintenance work		Other Ckt should be available		Darbhanga will avail power DMTCL(D) ckt 1	
309	400KV DSTPS-RTPS Ckt#1	8-Dec-20	7:00	8-Dec-20	16:00	ODB	GOMD-II, DVC	for checking of tightness of jumpers at all tension locations		Other Ckt should be available			
310	400KV RTPS-Ranchi PG Ckt#2	8-Dec-20	7:00	8-Dec-20	16:00	ODB	GOMD-VII/Ramrah DVC	for preventive maintenance work. For hardware and jumper checking and tightening if required and earthing checking		Other Ckt should be available			
311	315MVA , 400/220kV ICT-II at Mendhasal	8-Dec-20	7:00	9-Dec-20	16:00	ODB	GRIDCO	Condition monitoring work and Retrofitting work of isolator mechanism box .		Other ICT(s) Should be available		ICT- I & ICT- III will remain in service.	May be allowed
312	KTPP-Kharagpur 400 KV Ckt 1	8-Dec-20	7:00	8-Dec-20	16:00	ODB	WBSETCL	CT & CVT testing		Other Ckt should be available			
313	400 KV Main Bus-II at BKTPP	8-Dec-20	7:00	9-Dec-20	16:00	ODB	WBSETCL	Winter maintenance of 400KV side 29B Isolator of IBT-1, IBT -2 & Main Bus-2 Bays excluding GTs'		Other Bus Should be available			
314	400 KV MB-I at Kharagpur	8-Dec-20	7:00	9-Dec-20	16:00	ODB	WBSETCL	Maintenance Work of PG isolator against bus -I of different feeders		Other Ckt should be available			
315	Kharagpur-Chaibasa 400 KV Ckt 2	8-Dec-20	7:00	8-Dec-20	16:00	ODB	WBSETCL	Main bus-I, line & transfer bus isolator maintenance		Other Ckt should be available			
316	50 MVAR Bus Reactor-I & 125 MVAR Bus Reactor-II at Durgapur	8-Dec-20	7:00	8-Dec-20	9:30	ODB	POWERGRID ER-II	BR-I & II AMP works		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays			
317	400KV MAIN BUS-1 & 400KV BUS COUPLER BAY AT GOKARNA	8-Dec-20	6:00	8-Dec-20	16:00	ODB	WB	For erection work i.r.o. 315MVA ICT-3 HV Bay equipment and winter maintenance work at 400KV Main Bus 1 Side at Gokarna 400KV		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays			
318	400KV Meramundali-JSPL ckt-I	8-Dec-20	7:00	8-Dec-20	13:00	ODB	OPTCL	Replacement of main meter of the ckt at Meramundali end		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays		400KV Meramundali-JSPL ckt-II will remain in service	
319	400KV Meramundali-JSPL ckt-II	8-Dec-20	7:00	8-Dec-20	16:00	ODB	OPTCL	Replacement of main meter of the ckt at Meramundali end		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays		400KV Meramundali-JSPL ckt-I will remain in service	
320	132 KV Main Bus at Ara	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Other Bus Should be available	BSEB		Subject to NRPC consent.
321	220KV BUS-1 at Pusauli	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Other Bus Should be available	BSEB		Subject to NRPC consent.

322	400 kV side Main bay of 765/400 kV ICT-2 (404) at Gaya	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		
323	400 KV Gaya-Maithon Transmission Line Ckt 2	9-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-1	for replacement of Porcelain Insulator with (CLR) Polymer Insulator at Major crossings.	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available			
324	400KV MAIN BUS-II AT BANKA S/S	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other Bus Should be available	BSEB		Line shutdown was already availed for 17-18th November.
325	400KV ICT 1 Main Bay (bay no.412) at Patna	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
326	220KV ICT1 SIDE BAY (206) at Chaibasa	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Line may be Charged through Transfer Bus			is BNC Pole-2 & Agra pole-4 also under S/D?? Subject to NERPC, NRPC consent.
327	Main bay(707) of 765KV, 3 X 80MVAR B/R-2 at New Ranchi	9-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		
328	MAIN BAY OF 400 KV KISHANGANJ-1 (407-CT) AT NEW PURNEA	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	CT OIL SAMPLING		Tie Bay and Main bay of Tie should be available, Atleast two dia should be complete			
329	TIE BAY OF 400KV KISHANGANJ-1 & MUZAFFARPUR- (408-CT) AT NEW PURNEA	9-Dec-20	7:00	9-Dec-20	13:30	ODB	POWERGRID ER-I	CT OIL SAMPLING		Both Main bay should be available, at least two dia should be complete			
330	MAIN BAY OF 400 KV MUZAFFARPUR-2 (409- CT) AT NEW PURNEA	9-Dec-20	7:00	9-Dec-20	15:30	ODB	POWERGRID ER-I	CT OIL SAMPLING		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
331	315 MVA ICT-I MAIN BAY (403) AT RANCHI	9-Dec-20	7:00	10-Dec-20	16:00	OCB	POWERGRID ER-I	AMP AND 40352Rph SF6 GAS REPLACEMENT FOR HIGH DEW POINT TEST VALUE		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
332	400 KV KAHALGAON- MAITHON CKT I	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of flash over Insulator		Other Ckt should be available			
333	400KV Koderma - Biharsarif-I	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing		Other Ckt should be available			
334	A/R OF BIHARSHARIF- KODERMA CKT-II	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing		Line Will trip for Transient SLG Fault			
335	417 BIHARSARIF-2-TIE BAY AT MUZAFFARPUR	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			May be allowed
336	400KV PATNA-BALIA CKT 3	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in RIVER Crossing at loc 218		Other Ckt should be available			
337	A/R OF 400 KV PATNA-BALLIA-IV	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D OF 400 KV PATNA-BALLIA-3		Line Will trip for Transient SLG Fault			
338	400 KV BIHARSHARIF-MUZAFFARPUR-I	9-Dec-20	7:00	16-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of porcelain insulators with polymer insulator	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available			
339	A/R of 400 KV BIHARSHARIF- MUZAFFARPUR-II	9-Dec-20	7:00	16-Dec-20	16:00	ODB	POWERGRID ER-I	To facilitate the s/d of 400 KV BSF-MUZ-I		Line Will trip for Transient SLG Fault			
340	400KV Binaguri-Bongaigaon D/C Line I & II	9-Dec-20	0600	12-Dec-20	1800	ODB	POWERGRID ER-II	Stringing at crossing between Loc. No. 11/0 - 12/0 of Jigmeling line and loc. No. 273-274 of Binaguri - Bongaigaon Line	Detailed Work Plan to be submitted	Allpurdwar Link should be available	NLDC	Already proposed on 11/12 NOV-2020. If availed in November-20, then it will not be taken further in December-2020.	
341	400KV Mian bay of Purnea #1 at Binaguri	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
342	800 KV HVDC Alipurduar-Agra Pole-2	9-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AAI for fixing of span marker/aviation light at section 1352-1357		Other Pole should be available			
343	132 KV BUS-2 at Rangpo	9-Dec-20	7:00	10-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Other Bus Should be available	Subject to consent from generators/Sikkim	ERSS-XX PROJECT	
344	220KV Main Bus-I at Dalkhola	9-Dec-20	7:00	9-Oct-20	16:00	ODB	POWERGRID ER-II	Bus side Dropper replacement on DLK-KNE-I, DLK-PRN-I & Bus-I CVT and rectification of MB1 isolator alignment		Other Bus Should be available	WB		
345	400KV Malda-Purnea-I	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Work		After Farakka-Purnea ckt			
346	400KV BUS-I at Malda	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-II	ERSS-XVII-B Constructional work (400KV TBC)	Detailed Work Plan to be submitted	Other Bus Should be available	WB		
347	400/220 KV 315 MVA ICT-V at Malda	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-II	S/D required due to ICT -Vs 89B isolator defect i.r.o 400KV BUS-I S/D.		Other ICT(s) Should be available	WB		
348	220 KV DVC-II Bay at Durgapur	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Line may be Charged through Transfer Bus		220 KV DVC Line-II shall remain service through TBC -1 bay (202 bay)	
349	400KV Maithon-Kahalgaon I & II	9-Dec-20	7:00	10-Dec-20	16:00	OCB	POWERGRID ER-II	PL Crossing during Re-conducting work of Maithon - Right Bank # II Line		Maithon-Durgapur Should be available			
350	400/220KV , 500MVA ICT-1 along with 400KV Main Bus Bar-2 at Rajarhat	9-Dec-20	09:00:00	10-Dec-20	17:00:00	ODB	POWERGRID ER-II	Construction pending point implementation under construction activity.		Other ICT(s) Should be available	WB		
351	765/400KV ,1*500MVA SPARE ICT at Angul	9-Dec-20	7:00	9-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	Taking Spare Reactor Rotation		Nil	NLDC		
352	40652- Main Bay of 315MVA ICT II at Baripada	9-Dec-20	7:00	9-Dec-20	16:00	ODB	ER-II/Odisha/Baripada S/S	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
353	50 MVAR Jeypore Line Reactor at Balangir Substation.	9-Dec-20	7:00	9-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 50MVAR Jeypore Line Reactor and AMP for 403R 52CB .	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided			
354	Tie Bay 708 of 765KV Angul ckt-4 & 765KV Raipur ckt-2 at Sundargarh	9-Dec-20	7:00	9-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Both Main bay should be available, at least two dia should be complete	NLDC		
355	220 KV Kishanganj(PG)-Kishanganj (New) ckt 1 and ckt 2	9-Dec-20	7:00	10-Dec-20	16:00	ODB	BSPTCL	For Jumper tightening work		Other Ckt should be available		Kishanganj(New) will avail power from Kishanganj(PG) ckt 4 and ckt 3	
356	220 KV BSF(PG)-BSF ICT 1	9-Dec-20	7:00	9-Dec-20	15:00	ODB	BSPTCL	For Jumper tightening work		Other ICT(s) Should be available		BSF will avail power from available ICT at BSF(PG) and TTPS	
357	400KV DSTPS-RTPS Ckt#2	9-Dec-20	7:00	9-Dec-20	16:00	ODB	GOMD-II, DVC	for checking of tightness of jumpers at all tension locations		Both SD should not be taken together			
358	400KV RTPS-Ranchi PG Ckt#3	9-Dec-20	7:00	9-Dec-20	16:00	ODB	GOMD-VII,Ramgarh DVC	for preventive maintenance work. For hardware and jumper checking and tightening if required and earthing checking		Both SD should not be taken together			
359	132KV Baripada PG-Jaleswar ckt-I	9-Dec-20	7:00	9-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other feeder to jaleswar should be available		Jaleswar will avail P/S from Bhocara	
360	400KV Meramundali-Lapanga ckt-II	9-Dec-20	7:00	9-Dec-20	16:00	ODB	GRIDCO	Replacement of Y-ph & R-ph line isolator drop at Meramundali end		Other Ckt should be available		400KV Meramundali-Lapanga ckt-I will remain in service	
361	STPS-Chandil 220 KV Ckt	9-Dec-20	7:00	11-Dec-20	16:00	ODB	WBSETCL	CT replacement (SAS work) under PSDF scheme		Other Feeder at STPS should be available	WB		
362	315 MVA IBT-1 at BKTTP	9-Dec-20	7:00	11-Dec-20	16:00	ODB	WBSETCL	Winter maintenance- PM of 29C & D Isolator, 400KV & 220 KV- CT & Bushing Tan Delta, LA & Breaker Timming-CRM, Winding Resistance & Incipient Fault Interlock checking.		Other ICT(s) Should be available			

363	400 KV Bus Coupler bay at Kharagpur	9-Dec-20	7:00	9-Dec-20	16:00	ODB	WBSETCL	Main bus-I isolator maintenance		Feeder Should be equally distributed			
364	Jeerat-BKTPP 400 KV Ckt	9-Dec-20	7:00	9-Dec-20	15:00	ODB	WBSETCL	Tree trimming		Bakreswar-Arambag Should be available			
365	400 kv Farakka-Behrapore line#2	9-Dec-20	7:00	9-Dec-20	16:00	OCB	NTPC FARAKKA	Annual testing of CB,CT, relay and retrofitting of LBB relay		Other Ckt should be available			
366	220 KV DVC-II Bay at Durgapur	9-Dec-20	7:00	9-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
367	400KV MAIN BUS-2 & 400KV BUS COUPLER BAY AT GOKARNA	9-Dec-20	6:00	9-Dec-20	16:00	ODB	WB	For erection work i.r.o. 315MVA ICT-3 HV Bay equipment and winter maintenance work at 400KV Main Bus 2 Side at Gokarna 400KV		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays			Subject to NRPC consent.
368	100 MVA ICT 1 at Ara	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available	BSEB		Subject to NRPC consent.
369	400KV Andai-I line ,Main Bay (415)at Jamshedpur	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
370	400KV Bihar Sharif-2 Line Reactor Bay (CWL89Q50) at Pusaali	10-Dec-20	7:00	13-Dec-20	16:00	OCB	POWERGRID ER-I	Overhauling of CWL89Q50-Y phase Pole		Reactor shutdown in lean winter season should be avoided			
371	132 KV Kudra-Dehri	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	Relay Retrofitting at Dehri End		Other ICT(s) Should be available	BSEB		
372	400 kv Main bay of Chandwa-Gaya line -I (415) at Gaya	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
373	400 KV Maithon -Gaya Ckt 2	10-Dec-20	7:00	15-Dec-20	16:00	OCB	POWERGRID ER-1	Reconductoring of Middle R phase twin conductor (837 mtr span) between Tower no 40 1nd 41 Multi Ckt Tower in hilly terrain and Jungle Area damaged due to slipping of steel joint during cyclone	Detailed Work Plan to be submitted	Other Ckt should be available			
374	A/R of 400 kv Maithon Gaya Ckt-I	10-Dec-20	7:00	15-Dec-20	16:00	OCB	POWERGRID ER-1	To facilitate sd of parallel ckt		Line Will trip for Transient SLG Fault			
375	400KV Koderma - Gaya-I	10-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-1	Reconductoring of Middle R phase twin conductor (837 mtr span) between Tower no 40 1nd 41 Multi Ckt Tower in hilly terrain and Jungle Area damaged due to slipping of joint during cyclone	Detailed Work Plan to be submitted	Other Ckt should be available	DVC		
376	A/R of 400 kv Gaya Koderma Ckt-II	10-Dec-20	7:00	15-Dec-20	16:00	OCB	POWERGRID ER-1	To facilitate Sd of parallel ckt		Line Will trip for Transient SLG Fault			
377	132 kv Bay No.- 108 (Main Bay & line Bay of 132 kv LKR-LKR-2) at Lakhisarai	10-Dec-20	7:00	10-Dec-20	14:00	ODB	POWERGRID ER-1	FOR AMP WORK		Element to be Kept Charge with Transfer Bus			
378	400KV Balia 1 Main bay (bay no.413) at Patna	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			May be allowed
379	MAIN BAY OF 400 KV KISHANGANJ-2 (410-CT) AT NEW PURNEA	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	CT OIL SAMPLING		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
380	MAIN BAY OF 400 KV MUZAFFARPUR-1 (412- CT) AT NEW PURNEA	10-Dec-20	7:00	10-Dec-20	13:30	ODB	POWERGRID ER-I	CT OIL SAMPLING		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
381	TIE BAY OF 400KV KISHANGANJ-2 & MUZAFFARPUR-1 (411 CT) AT NEW PURNEA	10-Dec-20	7:00	10-Dec-20	15:30	ODB	POWERGRID ER-I	CT OIL SAMPLING		Both Main bay should be available, at least two dia should be complete			
382	315 Mva ICT 3 Transformer at Biharsharif	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available	BSEB		
383	400KV Koderma - Biharsharif-II	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing		Other Ckt should be available	DVC		
384	A/R OF 400KV BIHARSHARIF- KODERMA CKT-I	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing		Line Will trip for Transient SLG Fault			
385	400KV PATNA-BALIA CKT 3	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in RIVER Crossing loc 294		Other Ckt should be available			
386	A/R OF 400 KV PATNA-BALLIA-IV	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D OF 400 KV PATNA-BALLIA-3		Line Will trip for Transient SLG Fault			
387	132 kv Rangpo-Gangtok line-2	10-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	AMP&Line maintenance Works		Other Ckt should be available			
388	220KV Bus-Coupler at Dalkhola	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	S/D for AMP work		Feeder Should be equally distributed			
389	400KV Malda-Purnea-II	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Work		After Farakka-Purnea			
390	400KV Sagardighi-Berhampore-I	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	Relay and PLCC Maintenance work		Other Ckt should be available			
391	400KV 125MVAR Bus Reactor-2 at maithon	10-Dec-20	7:00	10-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work	May be availed after winter will be reviewed in Feb'21 (OCC)	Reactor shutdown in lean winter season should be avoided			
392	400KV TALCHAR-MERAMUNDALI LINE 2 LINE	10-Dec-20	7:00	10-Dec-20	13:00	ODB	ER-II/Odisha/Angul SS	AMP		Other Ckt should be available			
393	400KV Rengali Line Main Bay (405) at Keonjhar	10-Dec-20	7:00	10-Dec-20	16:00	ODB	Keonjhar	AMP WORKS (FY 2020-21)		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
394	400 KV Indravati Line & 125 MVAR Bus Reactor # 2 Tie Bay (Bay No-411) at Rengali	10-Dec-20	7:00	10-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP & Isolator alignment work and interlock checking	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Both Main bay should be available, at least two dia should be complete/ ER- SR TTC Reduction, Gazuwaka to be restricted to 350 MW			
395	125 MVA/ Bus Reactor 1 at Rourkela	10-Dec-20	7:00	10-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS	May be availed after winter (will be reviewed in Feb'21 (OCC)	Reactor shutdown in lean winter season should be avoided			
396	Main Bay 710 of 765KV Sundargarh-Angul ckt-3 at Sundargarh	10-Dec-20	7:00	10-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		
397	220 KV Gaya(PG)-Dehri ckt 2	10-Dec-20	7:00	10-Dec-20	16:00	ODB	BSPTCL	For winter maintenance work		Other Ckt should be available		Dehri will avail power from alternate sources.	
398	220 KV BSF(PG)-BSF ICT 2	10-Dec-20	7:00	10-Dec-20	15:00	ODB	BSPTCL	For Jumper tightening work		Other ICT(s) Should be available		BSF will avail power from available ICT at BSF(PG) and TTPS	
399	400KV DSTPS-RTPS Ckt#1	10-Dec-20	7:00	10-Dec-20	16:00	ODB	GOMD-II, DVC	for checking of tightness of jumpers at all tension locations.		Other Ckt should be available			
400	220KV Rengali PH-Kaniha ckt (Loc no. 98 to Loc no.187)	10-Dec-20	7:00	11-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other Ckt should be available		220KV Rengali PH-TTTPS will remain in service	Subject to NRPC consent.
401	400KV Bus- I at Mendhasal	10-Dec-20	8:00	10-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other Bus Should be available		All the feeders shall remain in service through 400KV Bus -II	Subject to NRPC consent.
402	315 MVA ICT-1 at Kharagpur	10-Dec-20	7:00	11-Dec-20	16:00	ODB	WBSETCL	Maintenance Work of transformer & CBM activities		Other ICT(s) Should be available			
403	400 kv D/C Purnea-Biharsharif Ckt-01	10-Dec-20	7:00	10-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		After Purnea-Farakka and Not with Madla Purnea			
404	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-02	10-Dec-20	7:00	10-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
405	765 KV SASARAM-FATEHPUR	10-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID NR-III	POWERLINE CROSSING BETWEEN LOC NO.315 TO 316		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			

406	400KV MAIN BUS-2 & 400KV BUS COUPLER BAY AT GOKARNA	10-Dec-20	6:00	10-Dec-20	16:00	ODB	WB	For erection work i.r.o. 315MVA ICT-3 HV Bay equipment and winter maintenance work at 400KV Main Bus 2 Side at Gokarna 400KV	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays			
407	160 MVA ICT 3 at Ara	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK	Other ICT(s) Should be available	BSEB		
408	400KV Biharsharif-2 Main Bay (CWD80Q51) at Pusauli	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
409	132 KV Mohaniya-Karmnasa	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER1	Relay Retrofitting at Karmnasa End	Power may be feed through alternative source	BSEB		
410	400 kV Tie bay of Chandwa-Gaya line -I (414) at Gaya	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK	Both Main bay should be available, at least two dia should be complete			
411	400KV Ballia 1 Tie bay_414 at Patna	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Both Main bay should be available, at least two dia should be complete			
412	MAIN BAY OF 400 KV MALDA-2 (413CT) AT NEW PURNEA	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	CT OIL SAMPLING	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
413	TIE BAY OF 400KV MALDA-2 & BUS REACTOR-1 (414-CT) AT NEW PURNEA	11-Dec-20	7:00	11-Dec-20	13:30	ODB	POWERGRID ER-I	CT OIL SAMPLING	Both Main bay should be available, at least two dia should be complete			
414	MAIN BAY OF 400 KV BUS REACTOR-1 (415-CT) AT NEW PURNEA	11-Dec-20	7:00	11-Dec-20	15:30	ODB	POWERGRID ER-I	CT OIL SAMPLING	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		May be allowed	
415	MAIN BAY OF 400 KV MALDA-1 (416-CT) AT NEW PURNEA	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	CT OIL SAMPLING	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
416	400KV RNC-RGP-I TL	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of flashed insulator.	Other Ckt should be available			
417	400 KV Main Bay of Ballia 1 (Bay no.406) at Biharsharif	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
418	400KV Koderma - Biharsharif-I	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing	Other Ckt should be available		Shall be clubbed with S.No 47	
419	A/R OF BIHARSHARIF- KODERMA CKT-II	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing	Line Will trip for Transient SLG Fault			
420	400KV PATNA-BALLIA CKT 4	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in Sone RIVER Crossing loc.295	Other Ckt should be available			
421	A/R OF 400 KV PATNA-BALLIA-3	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D OF 400 KV PATNA-BALLIA-4	Line Will trip for Transient SLG Fault			
422	400 KV PATNA-BARH-I	11-Dec-20	7:00	11-Dec-20	13:00	ODB	POWERGRID ER-I UNDER PILOT PROJECT OF RLDC	FOR INSTALLING MAIN SEM METER AND CHECK METER UNDER 5 MINUTE METERING TIME BLOCK	Other Ckt should be available			
423	400KV FILTER-3 Main Bay at Alipurduar	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	Bay AMP Work	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
424	400KV Main bay of Malbase at Binaguri	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
425	220KV Binaguri-Birpara 1 line	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AAI for fixing of span marker/aviation light at section 138-139	Other Ckt should be available			
426	132 kV Rangit-Rammam Line	11-Dec-20	7:00	11-Dec-20	16:30	ODB	POWERGRID ER-II	Sag Correction due to Hill Sinking area at Loc 73-74	Other Ckt from Rangit should be available			
427	220KV Dalkhola-Purnea-I	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	S/D for AMP work	Other Ckt should be available		May be allowed	
428	220KV Bus-II at Malda	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	ERSS-XVII-B Constructional work(CT-II Jumper removal)	Detailed Work Plan to be submitted Other Bus Should be available	WB		
429	400 kV S/C FARAKKA-DURGAPUR-I	11-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-II	Replacement of Broken Glass disc insulators at various locations in Transmission line.	Detailed Status of Work done/ Pending work needs to be submitted Other Ckt should be available			
430	315 MVA ICT-II at Durgapur	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works	Other ICT(s) Should be available	DVC	315 MVA ICT-I & II shall remain in service	
431	400KV Maithon-Durgapur I & II	11-Dec-20	7:00	12-Dec-20	16:00	OCB	POWERGRID ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line	Other Ckt at Durgapur Should be available			
432	400KV, 125MVAR Bus Reactor-1 along with 400KV Main Bus Bar-2 at Rajarhat	11-Dec-20	09:00:00	12-Dec-20	17:00:00	ODB	POWERGRID ER-II	Construction pending point implementation under construction activity.	May be availed after winter (will be reviewed in Feb'21 QCC)	Reactor shutdown in lean winter season should be avoided		
433	315MVA ICT#3 at Subhasgram	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	Bay Upgradation Work Under ERSS-XVIII for Opening of Dropper Connection to Main bay 409-89B ISOLATOR & dismantling & erection of new isolator	Detailed Work Plan to be submitted	Other ICT(s) Should be available	WB	315 MVA ICT#3 will be under Shutdown. This shutdown shall be taken only after commissioning of 407 & 408 Bay.
434	765KV SRIKAKULAM LINE-2 & FUTURE TIE BAY (725) at Angul	11-Dec-20	7:00	11-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP	Both Main bay should be available, at least two dia should be complete	NLDC		
435	315 MVA ICT II at Baripada	11-Dec-20	7:00	11-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	Other ICT(s) Should be available	GRIDCO		
436	315MVA, ICT-1 at Bolangir	11-Dec-20	7:00	11-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 315MVA ICT-1	Other ICT(s) Should be available	GRIDCO		
437	220KV Side Bay of 315MVA ICT-1 (208 BAY) at Bolangir	11-Dec-20	7:00	11-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 208 52CB & 208 CT	Other ICT(s) Should be available			
438	400KV Indravati-Rengali S/C Line	11-Dec-20	7:00	11-Dec-20	16:00	ODB	ER-II/Odisha/Indravati	For closing of Isolator(40389R) & connecting Jumpers of 50MVAR LR after completion of Bushing replacement works and taking into service the 50MVAR LR, since LR is non switchable one.	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	ER-SR TTC/ ER-SR TTC Reduction, Gazuwaka to be restricted to 350 MW		Subject to NRPC consent.
439	400KV Keonjhar-Rengali Line	11-Dec-20	7:00	11-Dec-20	16:00	ODB	Keonjhar	AMP WORKS (FY 2020-21)	Other Ckt should be available			Subject to NRPC consent.
440	765KV Sundargarh-Angul Ckt #2	11-Dec-20	7:00	18-Dec-20	16:00	ODB	II/Odisha/Sundargarh	Delta A type tower strenthening and TL Maint work	Other ICT(s) Should be available	NLDC		
441	400KV DSTPS-RTPS Ckt#2	11-Dec-20	7:00	11-Dec-20	16:00	ODB	GOMD-II, DVC	for checking of tightness of jumpers at all tension locations.	Other Ckt should be available			
442	400KV Bus- II at Mendhasal	11-Dec-20	8:00	11-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance	Other Bus Should be available		All the feeders shall remain in service through 400KV Bus -I	
443	400KV Meramundali-JSPL ckt-I	11-Dec-20	7:00	11-Dec-20	16:00	ODB	GRIDCO	Line isolator alignment and overhauling at Meramundali end.	Other Ckt should be available		400KV Meramundali-JSPL ckt-II will remain in service	
444	Jeerat-New Chanditala 400 KV Ckt	11-Dec-20	7:00	11-Dec-20	15:00	ODB	WBSETCL	Tree trimming	Other Ckt should be available			
445	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-01	11-Dec-20	7:00	11-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification	Line Will trip for Transient SLG Fault			
446	400 kV D/C Purnea-Biharsharif Ckt-02	11-Dec-20	7:00	11-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification	Other Ckt should be available			
447	315 MVA ICT-II at Durgapur	11-Dec-20	7:00	11-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,			
448	765/400 kV 1500 MVA ICT-4 at Gaya	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK	Other ICT(s) Should be available	NLDC		
449	132 kV Bay No.- 110 (Main Bay & Line Bay of 132 kV LKR-JAMUI-1) at Lakhisarai	12-Dec-20	7:00	12-Dec-20	14:00	ODB	POWERGRID ER-1	FOR AMP WORK	Element to be Kept Charge with Transfer Bus			May be allowed

450	400KV Balla 2 Main bay(bay no.416) at Patna	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			Subject to WRPC consent.
451	TIE BAY OF 400KV MALDA-1 & BUS REACTOR-2 (417-CT) AT NEW PURNEA	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	CT OIL SAMPLING		Both Main bay should be available, at least two dia should be complete			
452	MAIN BAY OF 400 KV FARAKKA (419-CT) AT NEW PURNEA	12-Dec-20	7:00	12-Dec-20	13:30	ODB	POWERGRID ER-I	CT OIL SAMPLING		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
453	TIE BAY OF 400KV FARAKKA & BIHARSHARIF-2 (420-CT) AT NEW PURNEA	12-Dec-20	7:00	12-Dec-20	15:30	ODB	POWERGRID ER-I	CT OIL SAMPLING		Both Main bay should be available, at least two dia should be complete			
454	MAIN BAY OF 400 KV GOKARNA (422-CT) AT NEW PURNEA	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	CT OIL SAMPLING		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
455	400 KV Tie Bay of Sasaram1 and BR1 (420 no. Bay) at Biharsharif	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			
456	400KV Koderma - Biharsharif-II	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing		Other Ckt should be available			
457	A/R OF 400KV BIHARSHARIF- KODERMA CKT-I	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 08 (Eight) nos. ROAD/RIVER/RAIL/POWERLINE crossing		Line Will trip for Transient SLG Fault			
458	400 KV BARH-GORAKHPUR-I	12-Dec-20	7:00	12-Dec-20	13:00	ODB	POWERGRID ER-I	Installation of meters under 5 minute time block. metering methodology under pilot project of RLDC		Other Ckt should be available			
459	400KV PATNA-BALLA CKT 4	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator in Sone RIVER Crossing loc 296		Other Ckt should be available			
460	A/R OF 400 KV PATNA-BALLA-3	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D OF 400 KV PATNA-BALLA-4		Line Will trip for Transient SLG Fault			
461	400 KV PATNA-BARH-II	12-Dec-20	7:00	12-Dec-20	13:00	ODB	POWERGRID ER-I UNDER PILOT PROJECT OF RLDC	FOR INSTALLING MAIN SEM METER AND CHECK METER UNDER 5 MINUTE METERING TIME BLOCK		Other Ckt should be available			
462	220KV Binaguri-Birpara 2 line	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-II	Statutory requirement of AAJ for fixing of span marker/aviation light at section 138-140		Other Ckt should be available			
463	133 kV Rangit-Rammam Line	12-Dec-20	7:00	12-Dec-20	16:30	ODB	POWERGRID ER-II	Sag Correction due to Hill Sinking area at Loc 30-31		Other Ckt should be available			Line shutdown was already availed for 17-18th November.
464	66 KV Gangtok-Lagyp(LLHP) Line	12-Dec-20	7:00	12-Dec-20	14:00	ODB	POWERGRID ER-II	S/D for Relay Retrofitting		Other Source to LLHP Should be available			
465	132kv Rangpo-Chuzachen line-2	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Other Ckt should be available			
466	220 KV BUS-1 & 2 at Rangpo	12-Dec-20	7:00	12-Dec-20	16:00	OCB	POWERGRID ER-II	For HV test, All feeders on Bus-1&2 will under S/D		Other Bus should be available	Subject to consent from generators/Sikkim	ERSS-XX PROJECT	
467	400KV Bus-II at Malda	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-II	ERSS-XVII-B Constructional work(ICT-III Jumper removal)	Detailed Work Plan to be submitted	Other Bus should be available	WB		
468	400KV Sagardighi-Berhampore-II	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-II	Relay and PLCC Maintenance work		Other Ckt should be available			
469	315MVA ICT#4 at Subhasgram	12-Dec-20	7:00	12-Dec-20	16:00	ODB	POWERGRID ER-II	Bay Upgradation Work Under ERSS-XVIII for Opening of Dropper Connection to Main bay 412-89B ISOLATOR & dismantling & erection of new isolator	Detailed Work Plan to be submitted	Other ICT(s) Should be available	WB	315 MVA ICT# 4 will be under Shutdown. This shutdown shall be taken only after commissioning of 410 & 411 Bay.	
470	765KV SRIKAKULAM LINE-1 MAIN BAY(729) at Angul	12-Dec-20	7:00	12-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		
471	400KV Jeyapore-Gazuwaka-I Line	12-Dec-20	7:00	13-Dec-20	16:00	ODB	ER-II/Odisha/Jeyapore	For replacement of porcelain insulator by polymer insulator at major crossing & replacement of PID defect insulator	Detailed Work Plan to be submitted	Other Ckt should be available	NLDC		
472	400KV Keonjhar-Baripada Line	12-Dec-20	7:00	12-Dec-20	16:00	ODB	Keonjhar	AMP WORKS (FY 2020-21)		Other Ckt should be available			
473	400 KV, 315 MVA ICT # 2 at Rengali	12-Dec-20	7:00	12-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP & Isolator alignment work and interlock checking	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Other ICT(s) Should be available	GRIDCO		
474	Bay No 427 - Main Bay of Sundergarh 4 at Rourkela	12-Dec-20	7:00	12-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			May be allowed
475	400 KV Rourkela-Chaibasa # 1 LINE	12-Dec-20	7:00	12-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	FOR ERECTION OF REACTOR BUSHINGS (SHUTDOWN BEING AVAILED AS CLEARANCE IS LESS)		Other Ckt should be available			
476	Tie Bay 711 of 765KV Angul ckt-3 & 765KV Raipur ckt-1 at Sundargarh	12-Dec-20	7:00	12-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Both Main bay should be available, at least two dia should be complete	NLDC		
477	315 MVA IBT-2 at BKTTP	12-Dec-20	7:00	14-Dec-20	16:00	ODB	WBSETCL	Winter maintenance- PM of 29C & D Isolator, 400KV & 220 KV- CT & Bushing Tan Delta, LA & Breaker Timming-CRM, Winding Resistance & Incipient Fault Interlock checking.		Other ICT(s) Should be available			
478	400 KV D/C Purnea-Biharsharif Ckt-01	12-Dec-20	7:00	12-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available			
479	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-02	12-Dec-20	7:00	12-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
480	400 KV TIE bay of ICT 2 and Bus Reactor 3 (423 Bay No) at Biharsharif	13-Dec-20	7:00	13-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			
481	400KV Koderma - Bokaro-II	13-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-I	S/D for changing porcelain insulator by polymer insulator.	Detailed Work Plan to be submitted	Other Ckt should be available			
482	A/R of 400kv Koderma - Bokaro-I	13-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-I	A/R in non-auto mode for replacement work.		Line Will trip for Transient SLG Fault			
483	400 KV PATNA-BARH-III	13-Dec-20	7:00	13-Dec-20	13:00	ODB	POWERGRID ER-I UNDER PILOT PROJECT OF RLDC	FOR INSTALLING MAIN SEM METER AND CHECK METER UNDER 5 MINUTE METERING TIME BLOCK		Other Ckt should be available			
484	400 KV Bongaigaon Binaguri Line#1	13-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-II	Final commissioning, auto reclosure checking, scheme checking and jumper connection		Other Ckt should be available	NLDC		
485	400/220kv 315 MVAICT -3 at Rangpo	13-Dec-20	7:00	18-Dec-20	16:00	OCB	POWERGRID ER-II	For rectification of SF6 gas leakage repair work,	Detailed Work Plan to be submitted	Other ICT(s) Should be available		Rangpo is operating as split bus mode. During outage of one Bus , other elemnts including Chuzachen shall remain on one Bus. 220/132 kV lcts at Rangpo may be opened. In case outage of other bus Gangotok load and chuzachen generation will be out.	
486	132 KV BUS-1 & 2 at Rangpo	13-Dec-20	7:00	13-Dec-20	16:00	OCB	POWERGRID ER-II	For HV test, All feeders on Bus-1&2 will under S/D		Other Bus Should be available	SIKKIM	ERSS-XX PROJECT	
487	400KV RBTPS-Ranchi I&II	13-Dec-20	7:00	14-Dec-20	16:00	OCB	POWERGRID ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line		Other Ckt should be available			Subject to NRPC consent.
488	400 KV Main Bus-II at Subhasgram	13-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-II	For dismantalling of old 409 & 412 Bay Bus Isolator and installation & commissioning of new 409 & 412 Bay Bus isolator under ERSS - XVIII Project. & Bay Stability Test	Detailed Work Plan to be submitted	Other Bus Should be available	WB	400 KV Main Bus-II will be under Shutdown.This shutdown shall be taken only after commissioning of 407 & 408 , 410 & 411 Bay.	Subject to NRPC consent.

489	132 KV Purnea(PG)-Purnea ckt 1 and ckt 2	13-Dec-20	7:00	13-Dec-20	12:00	ODB	BSPTCL	For winter maintenance work		Other Ckt should be available		Purnea will avail power from Purnea(PG) ckt 3	
490	132 KV Purnea(PG)-Purnea ckt 1 ckt 2 and ckt 3	13-Dec-20	7:00	13-Dec-20	12:30	ODB	BSPTCL	For winter maintenance work		Load Restriction at Purnea		Purnea GSS will be powerless.	
491	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-01	13-Dec-20	7:00	13-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
492	400 KV D/C Purnea-Biharsharif Ckt-02	13-Dec-20	7:00	13-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available			
493	400KV Biharsharif-1 Main Bay (CWD70Q51) at Pusauli	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
494	400KV CWD10Q50 Bay (Tie Bay of Ac filter north side and Converter transformer north Side) at Pusauli	14-Dec-20	7:00	17-Dec-20	16:00	OCB	POWERGRID ER1	Overhauling of CWD10Q50-Y phase Pole		Both Main bay should be available, at least two dia should be complete			Approved in SRPC occ meeting, TTC Reduction upto 300 MW in the ER-SR corridor during the shut down period.
495	765/400 KV 1500 MVA ICT-2 at Gaya	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Other ICT(s) Should be available	NLDC		
496	315 MVA ICT -III at Lakhisarai	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-1	Final tuning of Tie bay CSD		Other ICT(s) Should be available	BSEB		
497	406 bay Main bay of 500 MVA ICT-1 at Kisanganj	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
498	Tie bay (708) of 765KV, 3X 80MVAR B/R-2 and Future at New Ranchi	14-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete	NLDC		
499	TIE BAY OF 400KV BSF-1 & GOKARNA LINE (423CT) AT NEW PURNEA	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	CT OIL SAMPLING		Both Main bay should be available, at least two dia should be complete			
500	ICT-2 (206-CT) AT NEW PURNEA	14-Dec-20	7:00	14-Dec-20	13:30	ODB	POWERGRID ER-I	CT OIL SAMPLING		Other ICT(s) Should be available	BSEB		
501	400KV RNC-RGP-I MAIN BAY (404) AT RANCHI	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
502	400 KV Bus 1 at Darbhanga	14-Dec-20	7:00	15-Dec-20	16:00	OCB	POWERGRID ER-I	HV testing & Bus bar protection testing of extension bus		Other Bus Should be available	BSEB		
503	400 KV KAHALGAON- BARH CKT I	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of flash over Insulator.		Other Ckt should be available			
504	400 KV Main Bay of Banka 1 (428 no.Bay) at Biharsharif	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
505	315 Mva ICT 2 at Biharsharif	14-Dec-20	7:00	18-Dec-20	16:00	OCB	POWERGRID ER-I	Bushing replacement		Other ICT(s) Should be available	BSEB		May be allowed
506	400 KV Bus 3 at Biharsharif	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	Checking of Bus Interlocking scheme under construction head		Other Bus Should be available	BSEB		
507	419 BIHARSARIF-1 MAIN BAY AT MUZAFFARPUR	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
508	400 KV BIHARSHARIF - BALIA CKT- I	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings.Total 19 locations. Completed - Nil. To be completed- 19		Other Ckt should be available			
509	A/R OF 400 KV BIHARSHARIF - BALIA CKT- II	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF-BALIA CKT- I		Line Will trip for Transient SLG Fault			
510	400 KV PATNA-BARH-IV	14-Dec-20	7:00	14-Dec-20	13:00	ODB	POWERGRID ER-I UNDER PILOT PROJECT OF RLDC	FOR INSTALLING MAIN SEM METER AND CHECK METER UNDER 5 MINUTE METERING TIME BLOCK		Other Ckt should be available			
511	132 KV BIRPARA(PG)-BIRPARA(WBSETCL)-I	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-II	Bay AMP work		Other Ckt should be available			
512	220 KV BUS-1 at Rangpo	14-Dec-20	7:00	15-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Other Bus Should be available/All connected Generators shall be out. Either outage hour reduced to 4 Hr or One bus shutdown at a time shall be allowed.	Subject to consent from generators/Sikkim	ERSS-XX PROJECT	
513	400kv D/C Sagardighi-Durgapur-I	14-Dec-20	7:00	14-Dec-20	16:00	ODB	POWERGRID ER-II	Shut down Nature Work		Other Ckt should be available			Subject to NRPC consent.
514	400KV Mailthou-Durgapur #1 Line	14-Dec-20	7:00	16-Dec-20	16:00	ODB	POWERGRID ER-II	Insulator Replacement work at major crossings		Other Ckt should be available			Subject to NRPC consent.
515	400 KV 407 main Bay of Baripada-Duburi line at Baripada	14-Dec-20	7:00	15-Dec-20	16:00	OCB	II/Odisha/BARIPADA S/S	Gasket replacement		Other ICT(s) Should be available			
516	UHIEP-BR Tie Bay (411) at Indravati	14-Dec-20	7:00	14-Dec-20	16:00	ODB	ER-II/Odisha/Indravati	AMP works of UHIEP-BR Tie Bay (411) . During this shutdown Power flow will not be interrupted.		Both Main bay should be available, at least two dia should be complete			
517	400KV Jeypore-Gazuwaka-II Line	14-Dec-20	7:00	15-Dec-20	16:00	ODB	ER-II/Odisha /Jeypore	For replacement of porcelain insulator by polymer insulator at major crossing & replacement of PID defect insulator		Line should be available	NLDC		
518	400 KV Baripada-Duburi Line	14-Dec-20	7:00	14-Dec-20	16:00	ODB	ER-II/Odisha/ Pandibali GIS	Broken Insulator changing in 27 no.s towers and other minor defects.		Other Ckt should be available			
519	Main Bay 427 of 400KV Sundargarh-Raigarh ckt-4 at Sundargarh	14-Dec-20	7:00	14-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
520	400KV Main Bus#1 at MTPS S/Y, DVC	14-Dec-20	7:00	18-Dec-20	16:00	OCB	S/Y Maintenance, RTPS, DVC	Preventive maintenance of Isolator-As of all lines, GT#7&8 & Bus Tie		Other Bus Should be available			
521	220KV Jamshedpur-Jindal Tie	14-Dec-20	7:00	14-Dec-20	16:00	ODB	GOMD-III, Jamshedpur, DVC	Disc insulator replacement work at loc no. 159,163		Both Main bay should be available, at least two dia should be complete			Subject to Bangladesh consent
522	220KV Tarkera-Rourkela PG Ckt-I	14-Dec-20	8:00	14-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other Ckt should be available		220 KV Tarkera-Rourkela PG Ckt-II will remain in service	
523	315 MVA ICT-2 at Kharagpur	14-Dec-20	7:00	15-Dec-20	16:00	ODB	WBSETCL	Maintenance Work of transformer & CBM activities		Other ICT(s) Should be available			
524	400 KV MB-I at Jeerat	14-Dec-20	7:00	14-Dec-20	15:00	ODB	WBSETCL	Repairing of Main Bus conductor		Other Ckt should be available			
525	400 KV BARH PATNA LINE # 2	14-Dec-20	7:00	16-Dec-20	16:00	OCB	NTPC BARH	Annual maintenance of ICT 2		Other Ckt should be available			
526	400 KV SgTPP-Subhashgram Bay & Tie Bay with Line Reactor.	14-Dec-20	7:00	14-Dec-20	16:00	ODB	WB	Annual Maintenance		Other Ckt should be available Approved as Additional Agents, other RPC consent will be required in case of interregional & 765Kv element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bay. Load Restriction at Lakhishari May be imposed		Subhashgram Line Shut Down.	
527	765/400 KV 1500 MVA ICT-1 at Gaya	15-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Load Restriction at Lakhishari May be imposed	NLDC		
528	315 MVA ICT -III at Lakhisarai	15-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-1	Final commissioning of AVR panel/ Parallel operation of ICT		Load Restriction at Lakhishari May be imposed	BSEB		
529	200 MVA ICT -I at Lakhisarai	15-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-1	Commissioning of AVR panel/ Parallel operation of ICT		Load Restriction at Lakhishari May be imposed	BSEB		
530	200 MVA ICT -II at Lakhisarai	15-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-1	Commissioning of AVR panel/Parallel operation of ICT		Load Restriction at Lakhishari May be imposed	BSEB		
531	400KV Barh 1 Main bay (bay no.418) at Patna	15-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
532	400 KV KAHALGAON- BARH CKT II	15-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of flash over Insulator		Other Ckt should be available			
533	400 KV TIE Bay of Koderna 2 and ICT4 (426 no.Bay) at Biharsharif	15-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			
534	420 BIHARSARIF-1-TIE BAY AT MUZAFFARPUR	15-Dec-20	7:00	15-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			

535	400 KV BIHARSHARIF - BALIA CKT- II	15-Dec-20	7.00	15-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/rail/power line crossings. Total 19 locations. Completed - Nil. To be completed- 19		Other Ckt should be available		May be allowed
536	A/R OF 400 KV BIHARSHARIF - BALIA CKT- I	15-Dec-20	7.00	15-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF -BALIA CKT- II		Other Ckt should be available		
537	400 KV KAHALGAON-BARH-I	15-Dec-20	7.00	15-Dec-20	13:00	ODB	POWERGRID ER-I UNDER PILOT PROJECT OF RLDC	FOR INSTALLING MAIN SEM METER AND CHECK METER UNDER 5 MINUTE METERING TIME BLOCK		Other Ckt should be available		
538	400KV Biharsharif Iakhisarai ckt 2	15-Dec-20	7.00	15-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of flashed insulator.		Other Ckt should be available		May be allowed
539	132 KV BIRPARA(PG)-BIRPARA(WBSETCL)-II	15-Dec-20	7.00	15-Dec-20	16:00	ODB	POWERGRID ER-II	Bay AMP work		Other Ckt should be available		
540	400KV Bus#2 AT BINAGURI	15-Dec-20	7.00	15-Dec-20	16:00	ODB	POWERGRID ER-II	Upgradation of 412 Bay, Bus Isolator jumper Connection in ERSS XX	Detailed Work Plan to be submitted	Other Bus Should be available	WB	
541	400KV Malda-Farakka-I	15-Dec-20	8.00	15-Dec-20	13:00	ODB	POWERGRID ER-II	A/R relay checking		Other Ckt should be available		
542	400kv D/C Sagardighi-Durgapur-II	15-Dec-20	7.00	15-Dec-20	16:00	ODB	POWERGRID ER-II	Shut down Nature Work		Other Ckt should be available		Subject to NRPC consent.
543	400KV Bus-I at Berhampore	15-Dec-20	7.00	15-Dec-20	16:00	ODB	POWERGRID ER-II	Yearly Bus Maintenance		Other Bus Should be available	WB	Subject to NRPC consent.
544	220 KV Maithon-Dhanbad &II	15-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-II	PL Crossing during Re-conductoring work of Maithon - Right Bank # II Line		Other Ckt should be available		
545	400 KV BUS-I AT RANGPO SS	15-Dec-20	7.00	21-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).		Other Bus Should be available		
546	400 KV Indravati Line FSC Bay (Bay No-412 FSC) at Rengali	15-Dec-20	7.00	15-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP & Isolator alignment work and interlock checking	May be availed after revival of 400KV Rengali-Indravati S/C Line (after 14th)	Other Ckt should be available		
547	Tie Bay -434 of 765/400KV ICT-4 and 400KV Sundargarh-OPGC ckt-1 at Sundargarh	15-Dec-20	7.00	15-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Both Main bay should be available, at least two dia should be complete	NLDC	
548	220 KV Gaya(PG)-Khizersarai ckt 1	15-Dec-20	7.00	15-Dec-20	16:00	ODB	BSPTCL	For PLCC related work		Other Ckt should be available		Khizersarai GIS will avail power from BSF and Bodhgaya
549	400KV Main Bus#2 at RTPS S/Y, DVC	15-Dec-20	7.00	15-Dec-20	16:00	ODB	S/Y Maintenance, RTPS, DVC	Necessary Bus maintenance/ checking of the Main Bus#2		Other Bus Should be available		During this shut-down all 400KV lines connected to RTPS 400KV Switchyard will be in service through their respective tie breakers
550	315MVA, 400/220KV ICT-I at Mendhasal	15-Dec-20	7.00	15-Dec-20	16:00	ODB	GRIDCO	Condition monitoring work		Other ICT(s) Should be available		ICT- II & ICT- III will remain in service.
551	400KV Meramundali-New Duburi ckt-I	15-Dec-20	7.00	15-Dec-20	16:00	ODB	GRIDCO	Tie isolator drop replacement and line isolator overhauling at Meramundali end		Other Ckt should be available		400KV Meramundali-New Duburi ckt-II will remain in service
552	KTPP-Kharagpur 400 KV Ckt 2	15-Dec-20	7.00	15-Dec-20	16:00	ODB	WBSETCL	CT & CVT testing		Other Ckt should be available		
553	Kharagpur- Baripada 400 KV Ckt	15-Dec-20	7.00	16-Dec-20	15:00	ODB	WBSETCL	For route clearance work along span TL 240-243; TL 263-265; TL 358-36		Other Ckt should be available		Shall be clubbed with S.No 47
554	400 kV D/C Purnea-Biharsharif Ckt-01	15-Dec-20	7.00	15-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available		
555	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-02	15-Dec-20	7.00	15-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault		Approved in SRPC occ meeting, TTC Reduction upto 300 MW in the ER-SR corridor during the shut down period
556	400 KV D/C RAJARHAT -PURNEA TRANSMISSION LINE	15-Dec-20	7.00	15-Dec-20	16:00	ODB	ADANI POWER (JHARKHAND) LTD	OVER HEAD CROSSING		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,		
557	132kv BUS	15-Dec-20	7.00	15-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	Isolator alignment work		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,		Why Continuous S/D required??
558	400 KV SgTPP-Farakka#1 Bay & Tie Bay.	15-Dec-20	7.00	15-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bay.	Farakka#1 Line Shut Down.	Subject to WRPC consent.
559	400 KV SgTPP-Parulia #1 Bay & Tie Bay.	15-Dec-20	7.00	15-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bay.	Parulia #1 Line Shut Down.	
560	400KV ICT-2 Main Bay (CWD70Q52) at Pusauli	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
561	765/400 kV 500 MVA Hot Spare ICT at Gaya	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Nil	NLDC	
562	400KV Koderma - Gaya-I	16-Dec-20	7.00	20-Dec-20	16:00	ODB	POWERGRID ER-1	for replacement of Porcelain Insulator with (CLR) Polymer Insulator at Major crossings.	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available		
563	220KV Khagaul-2 main Bay 202 at Patna	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Element to be kept Charged with Transfer Bus		
564	Main bay(715) of 765KV Dharamjaygarh-2 line at New Ranchi	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC	
565	400KV BUS BAR-II AT RANCHI	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other Bus Should be available	BSEB	
566	400 KV Main Bay (430 no. bay) of Banka 2 at Biharsharif	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
567	400 KV TIE Bay of Banka 1 and Banka-2 (429 Bay) at Biharsharif	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete		
568	400 KV BIHARSHARIF - BALIA CKT- I	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/rail/power line crossings.Total 19 locations. Completed - Nil. To be completed- 19		Other Ckt should be available		
569	A/R OF 400 KV BIHARSHARIF - BALIA CKT- II	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF -BALIA CKT- I		Line Will trip for Transient SLG Fault		
570	400 KV KAHALGAON-BARH-II	16-Dec-20	7.00	16-Dec-20	13:00	ODB	POWERGRID ER-I UNDER PILOT PROJECT OF RLDC	FOR INSTALLING MAIN SEM METER AND CHECK METER UNDER 5 MINUTE METERING TIME BLOCK		Other Ckt should be available		
571	160 MVA ICT-I AT SILIGURI	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work	Detailed Work Plan/ Sketch to be submitted	Other ICT(s) Should be available	WB	
572	400 KV Binaguri-Purnea Line 1	16-Dec-20	7.00	31-Dec-20	16:00	OCB	POWERGRID ER-II	On continuous basis for NH crossing work between loc. 40-41	Detailed Work Plan/ Sketch to be submitted	Deferred till january		
573	400 KV Binaguri-Purnea Line 2	16-Dec-20	7.00	31-Dec-20	16:00	OCB	POWERGRID ER-II	On continuous basis for NH crossing work between loc. 40-41		Deferred till january		
574	400KV Buscoupler at Rangpo	16-Dec-20	7.00	16-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Works		Feeder Should be equally distributed		Subject to NRPC consent.
575	400KV Rangpo-Kishengunj line	16-Dec-20	7.00	31-Dec-20	16:00	ODB	POWERGRID ER-II	For stringing work of 400KV LOOP OUT in Multi Ckt portion in Top Phase of Ckt -1	Detailed Work Plan/ Sketch to be submitted	Not possible till SD of Rangpo-Binaguri		Subject to NRPC consent.
576	220 KV BUS-2 at Rangpo	16-Dec-20	7.00	17-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Other Bus Should be available	ERSS-XX PROJECT	Subject to Bhutan consent

577	400KV, 125Mvar Bus Reactor-2 along with 400KV Main Bus Bar-2 at Rajarhat	16-Dec-20	09:00:00	17-Dec-20	17:00:00	ODB	POWERGRID ER-II	Construction pending point implementation under construction activity.	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided			Line shutdown was already availed for 17-18th November.
578	400/220/33 KV ICT-I & II AT RANGPO SS	16-Dec-20	7:00	16-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).		Other ICT(s) Should be available			
579	400 kV 408 Tie Bay of Baripada-Duburi & Baripada-Jamshedpur line at Baripada	16-Dec-20	7:00	17-Dec-20	16:00	OCB	ER-II/Odisha/BARIPADA S/S	Gasket replacement	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided			
580	400KV Balangir-Jeypore S/c line	16-Dec-20	7:00	25-Dec-20	16:00	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 Rail Line under East Cost Railway at Balangir		Line Should be available	NLDC		
581	400KV Jeypore-Indravati Line	16-Dec-20	7:00	16-Dec-20	16:00	ODB	ER-II/Odisha /Jeypore	For attending shutdown nature defects		Gazuwaka to ber restricted to 350 MW	NLDC		
582	400 KV Duburi-Pandiabli Line and Pandiabli-Mendhasal-II	16-Dec-20	7:00	16-Dec-20	16:00	ODB	ER-II/Odisha/ Pandiabli GIS	Jumper bolt tightening in Bottom phase of Mendhasa Line-II, and top phase of Duburi-Pandiabli Line and other minor defects, also Broken Insulator changing in Duburi-Pandiabli Line		Other Ckt should be available			
583	315 MVA ICT#1 at Rourkela	16-Dec-20	7:00	31-Dec-20	16:00	OCB	ER-II/ODISHA/ROURKELA	Erection works related to Parallelling of ICTs		Other Ckt should be available	GRIDCO		
584	765KV Sundargarh-Rajpur ckt-1 along with its LR at Sundargarh	16-Dec-20	7:00	16-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works & Guy arrangement works	May be availed after winter (will be reviewed in Feb'21 OCC)	Other Ckt should be available	NLDC		
585	220 KV Gaya(PG)-Khizersarai ckt 2	16-Dec-20	7:00	16-Dec-20	16:00	ODB	BSPTCL	For PLCC related work		Other Ckt should be available		Khizersarai GIS will avail power from BSF and Bodhgaya	
586	400KV Main Bus#2 at RTPS S/Y, DVC	16-Dec-20	7:00	16-Dec-20	16:00	ODB	S/Y Maintenance, RTPS, DVC	Necessary Bus maintenance/ checking of the Main Bus#3		Other Bus Should be available		During this shut-down all 400KV lines connected to RTPS 400KV Switchyard will be in service through their respective tie breakers	Approved in SRPC occ meeting. TTC Reduction upto 300 MW in the ER-SR corridor during the shut down period
587	220KV Jayanagar-Jeypore PG ckt-I	16-Dec-20	7:00	16-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other Ckt should be available/ Gazuwaka to ber restricted to 350 MW	NLDC	220KV Jayanagar-Jeypore PG ckt-II will remain in service	Shall be clubbed with S.No 564.
588	132KV Baripada- Baripada PG line	16-Dec-20	7:00	16-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of 132/33KV Grid Sub-station, Baripada		Other Ckt should be available			Approved in SRPC occ meeting
589	BKTPP-Jeerat 400 KV Ckt	16-Dec-20	7:00	18-Dec-20	16:00	ODB	WBSETCL	Winter maintenance - P.M of 29C & 29D Isolator, CB Timming, CVT Tan Delta, LA, Wave Trap Checking and CT replacement including structure modification in "Y" & "B" phases		Other Ckt should be available			
590	315 MVA ICT-3 at Kharagpur	16-Dec-20	7:00	17-Dec-20	16:00	ODB	WBSETCL	Maintenance Work of transformer & CBM activities		Other ICT(s) Should be available			
591	315 MVA ICT-3 at Jeerat	16-Dec-20	7:00	16-Dec-20	15:00	ODB	WBSETCL	Oil leakage rectification		Other ICT(s) Should be available			
592	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-01	16-Dec-20	7:00	16-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
593	400 KV D/C Purnea-Biharsharif Ckt-02	16-Dec-20	7:00	16-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available			
594	102 bay(132Kv side bay of 160MVA ICT#1)	16-Dec-20	7:00	16-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	AMP WORK		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
595	400 kV SgTPP-Subhashgram Bay & Tie Bay with Line Reactor.	16-Dec-20	7:00	16-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kv element/ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated in the bays	Subhashgram Line Shut Down.		
596	400 kV SgTPP-Parulia #1 Bay & Tie Bay.	16-Dec-20	7:00	16-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kv element/ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated in the bays	Parulia #1Line Shut Down.		
597	220 kV side main bay of 400/220 kV ICT-1 (201) at Gaya	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Element to be kept Charged with Transfer Bus			
598	400KV BUS-1 at Patna	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other Bus should be available	BSEB		
599	208 BAY Main bay of BSPTCL-1 at Kisanganj	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
600	400 kv bus 2 at Darbhanga	17-Dec-20	7:00	18-Dec-20	16:00	OCB	POWERGRID ER-I	HV testing & Bus bar protection testing of extension bus		Other Bus Should be available	BSEB		
601	400 KV Tie Bay of Koderma 1 and Future (435 Bay) at Biharsharif	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			Subject to NRPC consent.
602	315 MVA ICT-2 AT MUZAFFARPUR	17-Dec-20	7:00	19-Dec-20	16:00	OCB	POWERGRID ER-I	OVERHAULING OF OLTC		Other ICT(s) Should be available	BSEB		Subject to NRPC consent.
603	400 KV BIHARSHARIF - BALIA CKT- II	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings.Total 19 locations. Completed - Nil. To be completed- 19		Other Ckt should be available			
604	A/R OF 400 KV BIHARSHARIF - BALIA CKT- I	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF- BALIA CKT-II		Line Will trip for Transient SLG Fault			
605	400KV TALA-BINAGURI-IV	17-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-II	Procelin Insulator replacement with CLR Polymer Insulator works at major crossing span		Other Ckt should be available			
606	400 KV Bongaigaon Binaguri Line#2	17-Dec-20	7:00	17-Dec-20	15:00	ODB	POWERGRID ER-II	Line jumper modification for Bay upgradation	Detailed Work Plan to be submitted	Other Ckt should be available	NLDC		
607	400KV Main bay of Bongaigaon #2 at Binaguri	17-Dec-20	7:00	31-Dec-20	16:00	OCB	POWERGRID ER-II	Upgradation of 415 Bay under ERSS-XX	Detailed Work Plan to be submitted	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
608	400KV Rangpo-Dikchu line	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Works					
609	220/132 KV 160 MVA ICT-1 Malda	17-Dec-20	7:00	19-Dec-20	16:00	OCB	POWERGRID ER-II	220KV R-ph Bushing replacement owing to high Variable frequency Tan-delta Value		Other ICT(s) Should be available	WB		
610	400KV 125 MVAR Bus Reactor-2 at Baharampore	17-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-II	S/D for Balance construction Activities	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided			
611	220 KV DVC-I Bay at Durgapur	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Element to be charged through Transfer Bus		220 KV DVC Line-I shall remain service through TBC -1 bay (202 bay)	
612	400KV Maithon-Durgapur # 2 Line	17-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-II	Insulator Replacement work at major crossings		Other Ckt should be available			
613	400/220/33 KV ICT-III & IV AT RANGPO SS	17-Dec-20	7:00	17-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).		Other ICT(s) Should be available			
614	400KV ICT -2 & TALCHAR LINE TIE BAY (408) at Angul	17-Dec-20	7:00	17-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP		Both Main bay should be available, at least two dia should be complete			
615	765KV ANGUL-SUNDERGARH CKT 3&4	17-Dec-20	7:00	19-Dec-20	16:00	OCB	ER-II/Odisha/Angul SS	Jumper replacement work at Loc. No-265 (Transposition Tower)		ER SR TTC Reduction / ER SR TTC to be reduced by 650 MW	NLDC		Approved in SRPC occ meeting. TTC Reduction upto 300 MW in the ER-SR corridor during the shut down period

616	400KV Jeypore-Bolangir Line	17-Dec-20	7:00	17-Dec-20	16:00	ODB	ER-II/Odisha /Jeypore	For attending shutdown nature defects		Gazuwaka to ber restricted to 350 MW	NLDC		Approved in SRPC occ meeting
617	ACF - 3 Filter Bus at Kaniha	17-Dec-20	7:00	17-Dec-20	16:00	OCB	ER-II/Odisha/HVDC Talcher	Insulator Replacement of all filter Isolators of ACF3 Bus and AMP of 10C03-A bay. Pole - I & II shall remain in service through other available filter of ACF-1 & ACF-2 .		Nil			
618	400 kvBaripada-Pandiabili and Pandiabili-Mendhasal-I	17-Dec-20	7:00	17-Dec-20	16:00	ODB	ER-II/Odisha/ Pandiabili GIS	Remark - HVDC link shall be available at rated power Jumper bolt tightening in Bottom phase of Mendhasa Line-II, and top phase of Duburi-Pandiabili Line and other minor defects. Also Broken Insulator changing in Baripada-Pandiabili Line		Other Ckt should be available			May be allowed
619	400 KV, 125 MVAR Bus Reactor # 1 at Rengali	17-Dec-20	7:00	17-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP work	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided			
620	400KV Sundargarh-Rourkela ckt-3(432L)	17-Dec-20	7:00	17-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Other Ckt should be available			
621	400KV Meramundali-New Duburi ckt-II	17-Dec-20	7:00	17-Dec-20	16:00	ODB	GRIDCO	Line isolator overhauling and checking of clamp tightness at Meramundali end		Other Ckt should be available		400KV Meramundali-New Duburi ckt-I will remain in service	
622	220KV Meramundali-Kaniha ckt-II	17-Dec-20	7:00	18-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of line		Other Ckt should be available		220KV Meramundali-Kaniha ckt-I will remain in service	
623	315 MVA ICT-2 at Jeerat	17-Dec-20	7:00	17-Dec-20	15:00	ODB	WBSETCL	Supervision Checking and Emulsifier sys checking		Other ICT(s) Should be available			
624	400 KV D/C Purnea-Biharsharif Ckt-01	17-Dec-20	7:00	17-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available			
625	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-02	17-Dec-20	7:00	17-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
626	220 kV Alipurduar-salakati-1 TL	17-Dec-20	7:00	18-Dec-20	16:00	ODB	ER-II/POWERGRID	Replacement of damaged Lightning arrester at various locations.		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			Subject to NRPC consent.
627	220 KV DVC-I Bay at Durgapur	17-Dec-20	7:00	17-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			Subject to NRPC consent.
628	220 kV Alipurduar-salakati-1 TL	17-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-II	Replacement of damaged Lightning arrester at various locations.		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
629	132Kv Baripada-Jaleswar line	17-Dec-20	7:00	17-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	CVT replacement work		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
630	400 kV SgTTP-Parulia #2 Bay & Tie Bay.	17-Dec-20	7:00	17-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated to the bays	Parulia #2 Line Shut Down.		
631	400 kV SgTTP-Farakka#1 Bay & Tie Bay.	17-Dec-20	7:00	17-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated to the bays	Farakka#1 Line Shut Down.		
632	400KV ICT-1 Main Bay (CWD60Q52) at Pusauli	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
633	400KV CWD50Q50 Bay (Tie Bay of Ac filter east side and Converter transformer East Side) at Pusauli	18-Dec-20	7:00	21-Dec-20	16:00	OCB	POWERGRID ER1	Overhauling of CWD50Q50 R&Y-Phase Pole		Both Main bay should be available, at least two dia should be complete			
634	220 kV main bay of TBC (202) at Gaya	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Element to be kept Charged with Transfer Bus			
635	220KV Khagaul-3 main Bay 203 at Patna	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Element to be kept Charged with Transfer Bus			May be allowed
636	400 KV BIHARSHARIF - BALIA CKT - I	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/rail/power line crossings. Total 19 locations. Completed - Nil. To be completed- 12 TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF-BALLIA CKT -I		Other Ckt should be available			
637	A/R OF 400 KV BIHARSHARIF - BALIA CKT - II	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-I			Line Will trip for Transient SLG Fault			
638	400 KV BARH-MOTIHARI-II	18-Dec-20	7:00	18-Dec-20	13:00	ODB	POWERGRID ER-I UNDER PILOT PROJECT OF RLDC	FOR INSTALLING MAIN SEM METER AND CHECK METER UNDER 5 MINUTE METERING TIME BLOCK		Other Ckt should be available	BSEB		
639	315MVA ICT-1 AT ALIPURDUAR	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Work		Other ICT(s) Should be available	WB		
640	160 MVA ICT-II AT SILIGURI	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work		Other ICT(s) Should be available	WB		May be allowed
641	132KV Rangit Rangpo Ckt	18-Dec-20	7:00	18-Dec-20	16:30	ODB	POWERGRID ER-II	Porcelain Insulator replacement at loc 51					May be allowed
642	66 KV Gangtok-Tadong Line	18-Dec-20	7:00	18-Dec-20	14:00	ODB	POWERGRID ER-II	S/D for Relay Retrofitting					
643	132 KV BUS-1 at Rangpo	18-Dec-20	7:00	19-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Othe Bus Should be available		ERSS-XX PROJECT	
644	132 KV Rangpo-Melli	18-Dec-20	7:00	21-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		ERSS-XX PROJECT	
645	400KV Main bay Bus Reactor-I & II at Durgapur	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works				BR-I & II shall remain service through Tie CB 405	
646	315MVA ICT#3 at Subhasgram	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-II	Bay Upgradation Work Under ERSS-XVIII - Differential & REF Stability Test w.r.t to new Main CT (409 CT) & Scheme checking	Detailed Work Plan to be submitted		WB	315 MVA ICT#3 will be under Shutdown.	
647	400/220/33 KV ICT- V & TEESTA-V-I CKT AT RANGPO SS	18-Dec-20	7:00	18-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).		Other ICT(s) Should be available			Subject to NRPC consent.
648	400KV ICT-4 & FUTURE TIE BAY (420) at Angul	18-Dec-20	7:00	18-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP		Both Main bay should be available, at least two dia should be complete			Subject to NRPC consent.
649	400 KV 410 main Bay of Baripada-Pandiabili line at Baripada	18-Dec-20	7:00	19-Dec-20	16:00	OCB	ER-II/Odisha/BARIPADA S/S	Gasket replacement		Tie Bay and Main bay of Tie should be available, Atleast two dia should be complete			
650	315 MVA ICT-2 at Jeypore	18-Dec-20	7:00	27-Dec-20	16:00	ODB	ER-II/Odisha /Jeypore	For 220KV LA Foundation and shifting work, 220KV Cable termination and Transformer Bushing erection of New ICT-4 under SPML Package near ICT-2 area due to low clearance between new Gantry & existing 220KV Jumper of ICT-2 (Outage to be booked under Construction Head)		ER SR TTC to be reduced by 650 MW	GRIDCO		
651	ACF - 1 Filter Bus at Kaniha	18-Dec-20	7:00	18-Dec-20	16:00	OCB	ER-II/Odisha/HVDC Talcher	Insulator Replacement of all filter Isolators of ACF1 Bus . Pole - I & II shall remain in service through other available filter of ACF-2 & ACF-3 . Remark - HVDC link shall be available at rated power		Nil			
652	400 KV Rourkela-Chaibasa # 1 LINE	18-Dec-20	7:00	18-Dec-20	13:00	ODB	ER-II/ODISHA/ROURKELA	FOR TAKING THE LINE REACTOR IN SERVICE AFTER GASKET REPLACEMENT & OVERHAULING WORKS TO ARREST OIL LEAKAGES		Other Ckt should be available			
653	765KV Sundargarh-Darlipalli ckt-2(719L)	18-Dec-20	7:00	18-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works & GUY arrangement works		Other Ckt should be available	NLDC		

654	315 MVA ICT-1 at Jeerat	18-Dec-20	7:00	18-Dec-20	15:00	ODB	WBSETCL	Oil leakage rectification		Other ICT(s) Should be available			
655	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-01	18-Dec-20	7:00	18-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault			
656	400 KV D/C Purnea-Biharsharif Ckt-02	18-Dec-20	7:00	18-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available			
657	400KV Main bay Bus Reactor-I & II at Durgapur	18-Dec-20	7:00	18-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
658	132KV Baripada- Bangriposi Line	18-Dec-20	7:00	18-Dec-20	13:30	ODB	ER-II/Odisha/BARIPADA S/S	CT AMP work		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			May be allowed
659	400 kV SgTTP-Parulia #2 Bay & Tie Bay.	18-Dec-20	7:00	18-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays	Parulia #2 Line Shut Down.		Approved in SRPC occ meeting. TTC Reduction upto 2200 MW in the ER-SR corridor during the shut down period. Generation backing may also required in Talcher STG-1 & 2
660	315 MVA ICT#1 and its 400KV side Bay at SgTTP	18-Dec-20	7:00	18-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays	ICT#1 Shut Down.		Approved in SRPC occ meeting
661	220 kV main bay of Bus Coupler (203) at Gaya	19-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Element to be kept Charged with Transfer Bus			
662	315 Mva ICT 3 at Biharsharif	19-Dec-20	7:00	22-Dec-20	16:00	OCB	POWERGRID ER-I	OLTC overhauling		Other ICT(s) Should be available	BSEB		
663	400 KV Tie Bay (Bay no 432) of 400KV Biharsharif -Varanasi Line-2 at Biharsharif	19-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete			
664	400 KV Bus 4 at Biharsharif	19-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-I	Checking of Bus Interlocking scheme under construction head		Other Bus Should be available	BSEB		
665	400 KV BIHARSHARIF - BALIA CKT- II	19-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings. Total 19 locations. Completed - Nil. To be completed- 19		Other Ckt should be available			
666	A/R OF 400 KV BIHARSHARIF - BALIA CKT- I	19-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF -BALIA CKT- II		Line Will trip for Transient SLG Fault			
667	400KV Koderma - Gaya-I	19-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-I	S/D for changing porcelain insulator by polymer insulator.		Other Ckt should be available			May be allowed
668	A/R of 400KV Koderma - Gaya-II	19-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-I	A/R in non-auto mode for replacement work.		Line Will trip for Transient SLG Fault			
669	400KV Bus#2 at Binaguri	19-Dec-20	7:00	19-Dec-20	13:00	ODB	POWERGRID ER-II	415 Bay bus isolator jumper removal		Other Bus Should be available	WB		
670	132KV Rangit Rangpo Ckt	19-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-II	Porcelain Insulator replacement at loc 2		Shutdown shall be allowed for max 4 to 5 Hr during Sikkim corridor connected generators low schedule period.			
671	220KV Rajarhat-Jeerat circuit-2	19-Dec-20	09:00:00	19-Dec-20	17:00:00	ODB	POWERGRID ER-II	Auxiliary switch replacement of Line isolator-Q9		Other Ckt should be available			Subject to NRPC consent.
672	315MVA ICT#4 at Subhasgram	19-Dec-20	7:00	19-Dec-20	16:00	ODB	POWERGRID ER-II	Bay Upgradation Work Under ERSS-XVIII - Differential & REF Stability Test w.r.t to new Main CT (412 CT) & Scheme checking	Detailed Work Plan to be submitted	Other ICT(s) Should be available	WB	315 MVA ICT#4 will be under Shutdown.	Subject to NRPC consent.
673	TEESTA-V-II & RANGPO-Dikchu AT RANGPO SS	19-Dec-20	7:00	19-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).		Other Ckt should be available			
674	765 KV SUNDARGARH LINE-1 MAIN BAY (709) at Angul	19-Dec-20	7:00	19-Dec-20	16:00	ODB	ER-II/Odisha/Angul SS	AMP		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		
675	Talcher-Kolar Bipole S/D	19-Dec-20	7:00	20-Dec-20	16:00	OCB	ER-II/Odisha/HVDC Talcher	Electrode line diversion work for M/s East Coast railway from Loc.:37 to Loc.:40. Tower erection is completed and stringing work shall be completed during planned S/D. Pole-1 shall come into service after Bipole S/D Pole-2 shall remain in S/D.		Both Main bay should be available, at least two dia should be complete			
676	NTPC Feeder-1, 2, 3 & 4	19-Dec-20	7:00	20-Dec-20	16:00	OCB	ER-II/Odisha/HVDC Talcher	Shutdown shall be availed during Bipole shutdown for AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
677	400 KV, 125 MVAR Bus Reactor # 2 at Rengali	19-Dec-20	7:00	19-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP work	May be availed after winter (OCC)	Reactor shutdown in lean winter season should be avoided			
678	Bay No 427:- 400 kV Sng 4 Main Bay at Rourkela	19-Dec-20	7:00	19-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
679	703 Main Bay of 765/400KV ICT-1 at Sundargarh	19-Dec-20	7:00	19-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		May be allowed
680	765KV /400kV ICT-I at Sundargarh	19-Dec-20	7:00	19-Dec-20	11:30	ODB	ER-II/Odisha/Sundargarh	Guy Arrngement works for system improvement		Other ICT(s) Should be available	NLDC		May be allowed
681	400KV Meramundali-Lapanga ckt-I	19-Dec-20	7:00	19-Dec-20	16:00	ODB	GRIDCO	Replacement of R ph line isolator drop at Meramundali end		Other Ckt should be available	400KV Meramundali-Lapanga ckt-II will remain in service		Subject to WRPC consent.
682	BKTPP-Arambagh 400 KV Ckt	19-Dec-20	7:00	21-Dec-20	16:00	ODB	WBSETCL	Winter maintenance - P.M of 29C & 29D Isolator, CB Timming, LA, Wave Trap Checking, CT, CVT & Bushing Tan Delta of Line Reactor including grounding reactor checking		Other Ckt should be available			
683	220 kV Alipurduar-salakati-2 TL	19-Dec-20	7:00	20-Dec-20	16:00	ODB	ER-II/POWERGRID	Replacement of damaged Lightning arrester at various locations.		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
684	220 kV Alipurduar-salakati-2 TL	19-Dec-20	7:00	20-Dec-20	16:00	ODB	POWERGRID ER-II	Replacement of damaged Lightning arrester at various locations.		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
685	132KV Baripada- Baripada(OPTCL) Line	19-Dec-20	7:00	19-Dec-20	13:30	ODB	ER-II/Odisha/BARIPADA S/S	CT AMP work		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
686	400KV side bay of ICT#2 & Tie bay at SgTTP	19-Dec-20	7:00	19-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays	ICT Shut Down not required.		

687	400 kV SgTPP-Berhampur #1 Bay & Tie Bay.	19-Dec-20	7:00	19-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays.	Berhampur #1 Line Shut Down.	
688	400 KV Bus 1 at Motihari	20-Dec-20	7:00	21-Dec-20	16:00	OCB	POWERGRID ER-I	HV testing & Bus bar protection testing of extension bus		Other Bus Should be available	BSEB	
689	400 KV BUS 2 at Biharsharif	20-Dec-20	7:00	25-Dec-20	16:00	OCB	POWERGRID ER-I	For Bus Bar Commissioning work of TBEA Project	Detailed Work Plan to be submitted	Other Bus Should be available	BSEB	
690	400KV Biharshaif Banka ckt 2	20-Dec-20	7:00	20-Dec-20	16:00	ODB	POWERGRID ER-I	Retrofitting of auto reclose to numerical relay		Other Ckt should be available		
691	400 KV BIHARSHARIF - BALIA CKT- I	20-Dec-20	7:00	20-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings.Total 19 locations: Completed - Nil: To be completed- 19		Other Ckt should be available		
692	A/R OF 400 KV BIHARSHARIF - BALIA CKT- II	20-Dec-20	7:00	20-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF -BALLIA CKT- I		Line Will trip for Transient SLG Fault		
693	220KV Binaguri-Birpara 1 line	20-Dec-20	7:00	30-Dec-20	16:00	OCB	POWERGRID ER-II	Railway Diversion work at by 145-146 , Excution by NFR Railway	Detailed Work Plan/ Sketch to be submitted	Deferred till January		
694	220KV Binaguri-Birpara 2 line	20-Dec-20	7:00	30-Dec-20	16:00	OCB	POWERGRID ER-II	Railway Diversion work at by 145-146 , Excution by NFR Railway	Detailed Work Plan/ Sketch to be submitted	Deferred till January		
695	132 KV BUS-2 at Rangpo	20-Dec-20	7:00	21-Dec-20	16:00	OCB	POWERGRID ER-II	Docking of interface module with existing BUS	Detailed Work Plan to be submitted	Other Bus Should be available	Subject to consent from generators/Sikkim	ERSS-XX PROJECT
696	400KV Maithon-Right Bank # I	20-Dec-20	7:00	3-Jan-21	16:00	OCB	POWERGRID ER-II	Re conducting work	Detailed Work Plan to be submitted/ May be availed when one MPL unit is under overhauling		MPL	
697	400KV Maithon-Right Bank # II	20-Dec-20	7:00	3-Jan-21	16:00	ODB	POWERGRID ER-II	To be kept in Non-Auto Mode during reconducting of 400KV Maithon- RB# I line for safety measure			MPL	
698	400KV Maithon - Mejia #1 Line	20-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-II	Insulator Replacement work at major crossings	Detailed Status of Work done/ Pending work needs to be submitted			
699	400kv Main bay of Maithon-1 at MPL	20-Dec-20	7:00	3-Jan-21	16:00	OCB	POWERGRID ER-II	Upgradation of Bay equipments under ERSS-XVII Project work. Shut down of Bays proposed in respect of line shut down for reconducting work.	Detailed Work Plan to be submitted	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
700	400 KV D/C Arambag - Kolaghat, Arambag - Durgapur TL (WBSETCL)	20-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-II	Stringing b/w AP 31/0 to 32/0 of 765 KV D/C Medinipur-Jeerat TL Over existing 400 KV D/C Arambag - Kolaghat, Arambag - Durgapur TL (WBSETCL)			WB	
701	Rangpo-Kishanganj AT RANGPO SS	20-Dec-20	7:00	20-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).		After retun of Rangpo Binaguri		
702	765KV Angul_Sundargarh Ckt 4 Main Bay 720 at Angul	20-Dec-20	7:00	20-Dec-20	16:00	OCB	ER-II/Odisha/Angul SS	SF6 Gas leakage rectification		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC	
703	400 kv 411 Tie Bay of Baripada-Pandiabilli & Baripada-TISCO line at Baripada	20-Dec-20	7:00	21-Dec-20	16:00	OCB	ER-II/Odisha/BARIPADA S/S	Gasket replacement		ER-SR TTC to be reduced by 2000 MW		
704	HVDC Pole-2	20-Dec-20	7:00	21-Dec-20	16:00	OCB	ER-II/Odisha/HVDC Talcher	RTV coating of smoothing reactor as a preventive measure		ER-SR TTC to be reduced by 2000 MW		
705	NTPC Feeder- 3 & 4 and HVDC BUS-3 & 4	20-Dec-20	7:00	21-Dec-20	16:00	OCB	ER-II/Odisha/HVDC Talcher	Shut-down of HVDC BUS - III & IV shall be availed for insulator replacement of Bus Sectionizer Isolator (10C04-Q11 & Q21) . Pole-II Main Feeder Bus side isolator (10C03-A-Q1)and ACF 3 Main Bus side isolator (10C03-C-Q2) . Remark -: Pole - 2 shall remain in S/D for RTV Coating as per SL No- 04. Pole -I shall remain in service through NTPC FEEDER 1 & 2 and HVDC BUS- I & II) . Pole -I will operate in full power capability and All the filters of ACF-1 & 2 will remain in service		Both Main bay should be available, at least two dia should be complete		
706	400 kv D/C Purnea-Biharsharif Ckt-01	20-Dec-20	7:00	20-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available		
707	A/R OF 400 kv D/C Purnea-Biharsharif Ckt-02	20-Dec-20	7:00	20-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault		
708	400KV Varanasi North Main Bay (CWD30Q52) at Pusaulli	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
709	220 kV main bay of Gaya-Bodhgaya line-2 (204) at Gaya	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Element to be kept Charged with Transfer Bus		
710	209 BAY Main bay of BSPTCL-2 at Kisanganj	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		May be allowed
711	765/400KV, 3 X 500MVA ICT-1 at New Ranchi	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available	NLDC	Subject to WRPC consent.
712	220 KV PURNEA-NEWPURNEA-1 (201-52) AT NEW PURNEA	21-Dec-20	7:00	23-Dec-20	16:00	OCB	POWERGRID ER-I	SF6 GAS LEAKAGE ARREST AT B-PH		Other Ckt should be available		
713	400 KV D/C KAHAGAON-FARAKKA CKT 3	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Insulator.		Other Ckt should be available		Any load restriction on Sahupuri-Pusaulli line???
714	400 KV Main Bay (Bay no 433) of 400KV Biharsharif -Varanasi Line-2 at Biharsharif	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
715	400 KV BIHARSHARIF - BALIA CKT- II	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings.Total 19 locations: Completed - Nil: To be completed- 19		Other Ckt should be available		
716	A/R OF 400 KV BIHARSHARIF - BALIA CKT- I	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF -BALLIA CKT- II		Line Will trip for Transient SLG Fault		
717	400KV Rangpo- Teesta-v Ckt-1	21-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-II	Porcelain insulator replacement at major crossing.				
718	400KV Rangpo-Teesta-v Ckt-2	21-Dec-20	7:00	28-Dec-20	16:00	OCB	POWERGRID ER-II	For rectification of SF6 gas leakage repair work,	Detailed Work Plan to be submitted		NHPC	
719	400KV Main bay at Sagardighi-II at Durgapur	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	Sagardighi-II line shall remain in service through Tie CB 411	Subject to NRPC consent.
720	500 MVA ICT#5 at Subhasgram	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of ICT#5		Other ICT(s) Should be available	WB	Subject to NRPC consent.
721	80MMVAR B/R-1 at Keonjhar	21-Dec-20	7:00	21-Dec-20	16:00	ODB	Keonjhar	CSD tuning (Shutdown will be taken if not availed in NOV'20)				Subject to WRPC consent.
722	Bay No 430:- 400 kV Sng 2 Main Bay at Rourkela	21-Dec-20	7:00	21-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
723	706 Main Bay of 765/400KV ICT-2 at Sundargarh	21-Dec-20	7:00	21-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC	Subject to Bhutan consent
724	765KV /400kV ICT-II at Sundargarh	21-Dec-20	7:00	21-Dec-20	11:30	ODB	ER-II/Odisha/Sundargarh	Guy Armgement works for system improvement		Other ICT(s) Should be available	NLDC	
725	400KV Sundargarh-Raigarh Ckt #1	21-Dec-20	7:00	21-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work		Other Ckt should be available		
726	220 KV DMTCL(Darbhanga)-Ujayanpur S/C T/L	21-Dec-20	7:00	23-Dec-20	16:00	ODB	BSPTCL	For tree pruning and jumper tightening work		Other Ckt should be available	Ujayanpur will avail power from alternate sources.	

727	221 KV Patna(PG)-Khagaul ckt 1, ckt2 and ckt 3	21-Dec-20	7:00	21-Dec-20	13:00	ODB	BSPTCL	For replacement of 132 kv and 220 KV main bus Isolator		May be taken on by one	Khagaul will avail power from Bihta(New) at 132 KV Level	
728	220KV Jamshepur-Jindal Tie	21-Dec-20	7:00	21-Dec-20	16:00	ODB	GOMD-III, Jamshepur, DVC	Repairing of damaged Y ph conductor in between loc no. 191-192		Both Main bay should be available, at least two dia should be complete		
729	220KV Joda-Ramachandrapur	21-Dec-20	7:00	22-Dec-20	16:00	ODB	GRIDCO	Annual maintenance of 220kV/132/33kV S/Y at Joda grid s/s		Annual	Jindal S/S will avail power supply from Jamshepur end.	
730	132KV Joda-Kenduposi	21-Dec-20	7:00	22-Dec-20	16:00	ODB	GRIDCO	Annual maintenance of 220kV/132/33kV S/Y at Joda grid s/s			Jindal S/S will avail power supply from Jamshepur end.	May be allowed
731	220KV Joda-JSPL	21-Dec-20	7:00	22-Dec-20	16:00	ODB	GRIDCO	Annual maintenance of 220kV/132/33kV S/Y at Joda grid s/s			Jindal S/S will avail power supply from Jamshepur end.	Subject to WRPC consent.
732	220KV Tarkera-Rourkela PG Ckt-II	21-Dec-20	8:00	21-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other Ckt should be available	220kv Tarkera-Rourkela PG Ckt-I will remain in service	
733	400 KV MB-Ist, Jeerat	21-Dec-20	7:00	21-Dec-20	15:00	ODB	WBSETCL	Repairing of Main Bus conductor		Other Bus Should be available		
734	A/R OF 400 KV D/C Purnea-Biharsharif Ckt-01	21-Dec-20	7:00	21-Dec-20	16:00	ODB	ENICL	Auto Reclosure OFF for Helical installation & SD defect rectification		Line Will trip for Transient SLG Fault		
735	400 kv D/C Purnea-Biharsharif Ckt-02	21-Dec-20	7:00	21-Dec-20	16:00	ODB	ENICL	Shutdown for Helical installation & SD defect rectification		Other Ckt should be available		
736	132 KV Joda-Kendposi T/L	21-Dec-20	7:00	23-Dec-20	11:00	OCB	JUSNL	Replacement of TB Isolator, LAPT of Joda feeder at kendposi end under PSDF Scheme		Other Ckt should be available	OPTCL	
737	400KV Main bay at Sagardighi-II at Durgapur	21-Dec-20	7:00	21-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,		
738	132KV Baripada-Bhograi line	21-Dec-20	7:00	21-Dec-20	13:30	ODB	ER-II/Odisha/BARIPADA S/S	CT AMP work		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,		
739	315 MVA ICT#1 and its 400KV side Bay at SgTPP	21-Dec-20	7:00	21-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays	ICT#1 Shut Down.	Subject to NRPC consent.
740	400 kv SgTPP-Berhampur #1 Bay & Tie Bay.	21-Dec-20	7:00	21-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays	Berhampur #1 Line Shut Down.	Subject to NRPC consent.
741	220 kv main bay of Gaya-Bodhgaya line-1 (206) at Gaya	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK		Transfer Bus		Subject to NRPC consent.
742	400KV Koderma - Gaya-II	22-Dec-20	7:00	26-Dec-20	16:00	ODB	POWERGRID ER-1	for replacement of Porcelain Insulator with (CLR) Polymer Insulator at Major crossings.	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available		
743	400 KV D/C KAHAGAOIN-FARAKKA CKT 4	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Insulator.		Other Ckt should be available		
744	400 KV Main Bay (Bay no 440) of 400KV Biharsharif -Varanasi Line-1 at Biharsharif	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
745	400 KV MUZAFFARPUR-PURNIA LINE-1	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-I	RETROFITTING AND TESTING OF AUTO RECLOSE RELAY		Other Ckt should be available		
746	400 KV BIHARSHARIF - BALIA CKT- I	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/rail/rail/power line crossings. Total 19 locations. Completed - Nil. To be completed- 19		Other Ckt should be available		May be allowed
747	A/R OF 400 KV BIHARSHARIF - BALIA CKT- II	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF-BALLIA CKT- I		Line Will trip for Transient SLG Fault		Subject to WRPC consent.
748	400KV Koderma - Gaya-II	22-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-I	S/D for changing porcelain insulator by polymer insulator.		Other Ckt should be available		
749	A/R of 400KV Koderma - Gaya-I	22-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-I	A/R in non-auto mode for replacement work.		Line Will trip for Transient SLG Fault		
750	315MVA ICT-2 AT ALIPURDUAR	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Work		Other ICT(s) Should be available	WB	
751	400 KV TALA-BINAGURI-I	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-II	Jumper rectification works at Loc. 224 of railway crossing span		Other Ckt should be available		
752	400KV Main bay Bus Reactor-III at Durgapur	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	125 MVAR BR-III shall remain in service through Tie CB 423 CB	Subject to NRPC consent.
753	50 MVAR Sagardighi LR at Subhasgram	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 50 MVAR Sagardighi LR	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor Shutdown to be avoided in lean winter period	50 MVAR Sagardighi LR will be under Shutdown	Subject to NRPC consent.
754	400 KV BUS-II AT RANGPO SS	22-Dec-20	7:00	29-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).		Shutdown shall be allowed after restoration of Rangpo - Binaguri D/C		
755	10952- 132KV Baripada Line Main bay at Baripada	22-Dec-20	7:00	22-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	AMP works		Element to be Kept Charge with Transfer Bus		
756	220 KV Bus # 1 at Rengali	22-Dec-20	7:00	22-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP work		Other Bus Should be available	GRIDCO	
757	Bay No 405:- 400 kv Talcher 1 Tie Bay at Rourkela	22-Dec-20	7:00	22-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	AMP WORKS		Both Main bay should be available, at least two dia should be complete		
758	715 Main Bay of 765KV Sundargarh-dharamjaygarh ckt-3 at Sundargarh	22-Dec-20	7:00	22-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC	
759	400KV Sundargarh-Raigarh Ckt #3	22-Dec-20	7:00	22-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work		Other Ckt should be available		May be allowed
760	220KV Meramundali-Kaniha ckt-I	22-Dec-20	7:00	23-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of line and to by pass wavetrap and to check tightness of all points & overhauling of line isolator at Meramundali end		Other Ckt should be available	220kv Meramundali-Kaniha ckt-II will remain in service	
761	400KV Main bay Bus Reactor-III at Durgapur	22-Dec-20	7:00	22-Dec-20	16:00	ODB	POWERGRID ER-II	AMP works		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element,		
762	400KV side bay of ICT#2 & Tie bay at SgTPP	22-Dec-20	7:00	22-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays	ICT Shut Down not required.	
763	400 kv SgTPP-Gokarna #1 Bay & Tie Bay.	22-Dec-20	7:00	22-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays	Gokarna #1 Line Shut Down.	
764	400/220 kv 500MVA ICT-1 at Pusauli	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK		Other ICT(s) Should be available	BSEB	

765	220 kV main bay of Gaya-Dehri line-2 (208) at Gaya	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Element to be kept Charged with Transfer Bus			
766	400 kv bus 2 at Mothari	23-Dec-20	7:00	24-Dec-20	16:00	OCB	POWERGRID ER-I	HV testing & Bus bar protection testing of extension bus	Other Bus Should be available	BSEB		
767	400kV Main bay of Biharsharif-Muzaffarpur ckt 2 (bay No 401) at Biharsharif	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
768	400 KV Tie Bay (Bay no 441) of 400KV Biharsharif -Varanasi Line-1 at Biharsharif	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Both Main bay should be available, at least two dia should be complete			
769	400 KV MUZAFFARPUR-PURNIA LINE-2	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-I	RETROFITTING AND TESTING OF AUTO RECLOSE RELAY	Other Ckt should be available			
770	400 KV BIHARSHARIF - BALIA CKT- II	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/rail/power line crossings.Total 19 locations. Completed - Nil. To be completed- 19	Other Ckt should be available			
771	A/R OF 400 KV BIHARSHARIF - BALIA CKT- I	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF -BALIA CKT- II	Line Will trip for Transient SLG Fault			Not approved in SRPC OCC meeting.
772	765KV-DHARAMJAYGARH-RANCHI-1	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID WR-I	For Tamnar Bay Contruction Works at Dharamjaygarh end.	Other Ckt should be available	NLDC		
773	400 KV MUZAFFARPUR-GORAKHPUR 1	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID NR-III	AMP of Line Bay equipments at PGCIL Gorakhpur S/s	Other Ckt should be available	NLDC		
774	401 KV TALA-BINAGURI-II	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-II	Jumper rectification works at Loc. 224 of railway crossing span	Other Ckt should be available			
775	132 KV BUS COUPLER BAY AT SILIGURI	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-II	AMP work	Other Bus Should be available			
776	220 KV Buscoupler Bay at Subhasgram	23-Dec-20	7:00	23-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 204 Bay	Other Bus Should be available		204 Bay will be under Shutdown	
777	220 KV D/C Satgachia - Jeerat TL (WBSETCL)	23-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-II	Stringing b/w AP 154/0 to AP155/0 of 765 KV D/C Medinipur-Jeerat TL Over existing 220 KV D/C	Other Ckt should be available	WB		Approved in SRPC occ meeting. TTC Reduction upto
778	400/220/33 KV ICT-I & II AT RANGPO SS	23-Dec-20	7:00	23-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).	Shutdown shall be allowed after restoration of Rangpo - Binaguri D/C			
779	10152- 132KV Jaleswar Line Main bay at Baripada	23-Dec-20	7:00	23-Dec-20	16:00	ODB	ER-II/Odisha/Baripada S/S	AMP works	Element to be kept Charge with Transfer Bus			
780	220 KV Bus # 2 at Rengali	23-Dec-20	7:00	23-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP work	Other Bus Should be available	GRIDCO		
781	718 Main Bay of 765KV Sundargarh-dharamjaygarh ckt-4 at Sundargarh	23-Dec-20	7:00	23-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC		
782	765KV Sundargarh-Dharamjaygarh Ckt #3	23-Dec-20	7:00	23-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	Other Ckt should be available	NLDC		
783	132KV Baripada- Baripada PG line	23-Dec-20	7:00	23-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of line	Other Ckt should be available		Baripada will avail P/S from Balasore	
784	Jeerat-Rajarhat(PG) 220 KV Ckt 2	23-Dec-20	7:00	23-Dec-20	15:00	ODB	WBSETCL	Tan delta testing of CTs	Other Ckt should be available			
785	400 KV D/C KAHALGAON-MATHAN TRANSMISSION LINE	23-Dec-20	7:00	23-Dec-20	16:00	ODB	ADANI POWER (JHARKHAND) LTD	OVER HEAD CROSSING	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
786	Teesta III - Kishanganj Line circuit 2 and circuit 2(a)	23-Dec-20	7:00	23-Dec-20	16:00	On Daily Basis	TVPTL	For removing trees and bamboos in the transmission corridor and rectification of shutdown nature defects.	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,			
787	400 kV SgTPP-Berhampur #2 Bay & Tie Bay.	23-Dec-20	7:00	23-Dec-20	16:00	ODB	WB	Annual Maintenance	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated to the bays		Berhampur #2 Line Shut Down.	Not approved in SRPC OCC meeting.
788	400 kV SgTPP-Gokarna #1 Bay & Tie Bay.	23-Dec-20	7:00	23-Dec-20	16:00	ODB	WB	Annual Maintenance	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated to the bays		Gokarna #1 Line Shut Down.	
789	400/220 KV 500MVA ICT-2 at Pusauli	24-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER1	FOR AMP WORK	Other ICT(s) Should be available	BSEB		May be allowed
790	220 kV main bay of Gaya-Dehri line-1 (209) at Gaya	24-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-1	FOR AMP WORK	Element to be kept Charged with Transfer Bus			
791	MAIN BAY OF 400 KV SILIGURI-1 (401-52) AT NEW PURNEA	24-Dec-20	7:00	26-Dec-20	16:00	OCB	POWERGRID ER-I	SF6 GAS LEAKAGE ARREST AT Y-PH	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
792	400kV Main bay of Biharsharif-Muzaffarpur ckt 1 (bay No 403) at Biharsharif	24-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete			
793	400 KV Tie bay of Biharsharif- Lakhisarai-I (Bay no. 413) at Biharsharif	24-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Both Main bay should be available, at least two dia should be complete			
794	400 KV BIHARSHARIF - BALIA CKT- I	24-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Porcelene insulator with Polymer Insulator at road/rail/power line crossings.Total 19 locations. Completed - Nil. To be completed- 19	Other Ckt should be available			
795	A/R OF 400 KV BIHARSHARIF - BALIA CKT- II	24-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-I	TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF -BALIA CKT- I	Line Will trip for Transient SLG Fault			
796	400 KV MUZAFFARPUR-GORAKHPUR 2	24-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID NR-III	AMP of Line Bay equipments at PGCIL Gorakhpur S/s	Other Ckt should be available	NLDC		
797	220 KV Subhasgram Newtown Line	24-Dec-20	7:00	24-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 205 Bay	Other Ckt should be available		220 KV Newtown Line will be under Shutdown	
798	400/220/33 KV ICT-III & IV AT RANGPO SS	24-Dec-20	7:00	24-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).	Other ICT(s) Should be available			
799	315 MVA ICT I at Baripada	24-Dec-20	7:00	24-Dec-20	16:00	ODB	ER-II/Odisha/Baripada S/S	CT connector replacement.	Other ICT(s) Should be available	GRIDCO		
800	400 KV ROURKELA-SUNDARGARH#2 LINE	24-Dec-20	7:00	24-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	LINE MAINTENANCE WORKS	Other Ckt should be available			
801	702 Tie Bay of 765/400KV ICT-1 & 765,240MVAR Bus Reactor-1 at Sundargarh	24-Dec-20	7:00	24-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works	Both Main bay should be available, at least two dia should be complete	NLDC		
802	765KV Sundargarh-Dharamjaygarh Ckt #4	24-Dec-20	7:00	24-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work	Other Ckt should be available	NLDC		
803	132KV Baripada PG-Bhograi feeder	24-Dec-20	7:00	24-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance	Other Ckt should be available		Bhograi will avail P/S from Jaleswar	
804	400 kV SgTPP-Berhampur #2 Bay & Tie Bay.	24-Dec-20	7:00	24-Dec-20	16:00	ODB	WB	Annual Maintenance	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element/ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated to the bays		Berhampur #2 Line Shut Down.	

805	400 kV SgTPP-Farakka #2 Bay & Tie Bay.	24-Dec-20	7:00	24-Dec-20	16:00	ODB	WB	Annual Maintenance	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays.	Farakka #2 Line Shut Down.	
806	400KV BIHARSHARIF-SASARAM-1 Main Bay (Bay No 419) at Biharsharif	25-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
807	400 KV ICT 2 Main bay (422) at Biharsharif	25-Dec-20	7:00	25-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
808	400 KV BUS 1 at Biharsharif	25-Dec-20	7:00	29-Dec-20	16:00	OCB	POWERGRID ER-I	For Bus Bar Commissioning work of TBFA Project Replacement of Porcelene insulator with Polymer Insulator at road/river/rail/power line crossings. Total 19 locations. Completed - Nil. To be completed- 19 TO FACILITATE S/D WORK ON 400 KV BIHARSHARIF-BALIA CKT-I-I	Other Bus Should be available	BSEB	
809	400 KV BIHARSHARIF - BALIA CKT - II	25-Dec-20	7:00	25-Dec-20	16:00	ODB	POWERGRID ER-I		Other Ckt should be available		
810	A/R OF 400 KV BIHARSHARIF - BALIA CKT-I	25-Dec-20	7:00	25-Dec-20	16:00	ODB	POWERGRID ER-I		Line Will trip for Transient SLG Fault		
811	400KV Maithon - Gaya-I	25-Dec-20	7:00	27-Dec-20	16:00	ODB	POWERGRID ER-I	S/D for changing porcelain insulator by polymer insulator.	Other Ckt should be available		
812	A/R of 400KV Maithon - Gaya-II	25-Dec-20	7:00	27-Dec-20	16:00	ODB	POWERGRID ER-I	A/R in non-auto mode for replacement work.	Line Will trip for Transient SLG Fault		
813	400KV Maithon -Mejia # 2 Line	25-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-II	Insulator Replacement work at major crossings	Detailed Status of Work done/ Pending work needs to be submitted	Other Ckt should be available	
814	400 KV Rajarhat Line Main Bay at Subhasgram	25-Dec-20	7:00	25-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 404 Bay	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	404 Bay will be under Shutdown	
815	400/220/33 KV ICT- V & TEESTA-VI CKT AT RANGPO SS	25-Dec-20	7:00	25-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).	Other Ckt should be available	TEESTA V	
816	765KV Angul-Sundargarh Ckt 4 Tie Bay 719 at Angul	25-Dec-20	7:00	25-Dec-20	16:00	OCB	ER-II/Odisha/Angul SS	SF6 Gas leakage rectification	Both Main bay should be available, at least two dia should be complete	NLDC	
817	400 KV ROURKELA-SUNDARGARH#4 LINE	25-Dec-20	7:00	25-Dec-20	16:00	ODB	ER-II/ODISHA/ROURKELA	LINE MAINTENANCE WORKS	Other Ckt should be available		
818	132 KV Bus 1 at Motihari	26-Dec-20	7:00	27-Dec-20	16:00	OCB	POWERGRID ER-I	Erection, HV testing & Bus bar protection testing of extension bus	Other Bus Should be available	BSEB	Subject to WRPC consent.
819	315 MVA ICT 1 Main Bay (Bay no 415) at Biharsharif	26-Dec-20	7:00	26-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
820	400 KV BIHARSHARIF- KODERMA- 1 Main bay (Bay no 434) at Biharsharif	26-Dec-20	7:00	26-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
821	500MVA ICT4 at Biharsharif SS	26-Dec-20	7:00	26-Dec-20	16:00	ODB	POWERGRID ER-I	CSD Commissioning work under project head ERSS-XX	Detailed Work Plan to be submitted	Other ICT(s) Should be available	BSEB
822	400KV BIHARSHARIF- LAKHISARAI CKT-I	26-Dec-20	7:00	26-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing	Other Ckt should be available		
823	A/R OF 400 KV BIHARSHARIF-LAKHISARAI-II	26-Dec-20	7:00	26-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing	Line Will trip for Transient SLG Fault		
824	400 KV Sagardighi Line Main Bay at Subhasgram	26-Dec-20	7:00	26-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 401 Bay	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	401 Bay will be under Shutdown	
825	TEESTA-V-II & RANGPO-Dikchu AT RANGPO SS	26-Dec-20	7:00	26-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).	Other Ckt should be available	TEESTA V	
826	20852- 315MVA ICT I Bay at Baripada	26-Dec-20	7:00	26-Dec-20	16:00	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	Other ICT(s) Should be available		
827	705 Main Bay of 765/400KV ICT-2 & 765,240MVAR Bus Reactor-2 at Sundargarh	26-Dec-20	7:00	26-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	NLDC	
828	220kv Budhipadar-Korba S/C line ckt-II	26-Dec-20	7:00	30-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	TL Maint work-Earthring & insulator change	ER-SR TTC to be reduced by 2000 MW	NLDC	
829	220 KV Patna(PG)-Khagaul ckt 1, ckt2 and ckt 3	26-Dec-20	7:00	26-Dec-20	15:00	ODB	BSPTCL	For replacement of 132 kv and 220 KV main bus Isolator	Other Ckt should be available	Khagaul will avail power from Bhta(New) at 132 KV Level	
830	400 kV SgTPP-Gokarna #2 Bay & Tie Bay.	26-Dec-20	7:00	26-Dec-20	16:00	ODB	WB	Annual Maintenance	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays.	Gokarna #2 Line Shut Down.	
831	400 kV SgTPP-Jeerat # 1 Bay & Tie Bay.	26-Dec-20	7:00	26-Dec-20	16:00	ODB	WB	Annual Maintenance	Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765kV element/ Main Bay & Tie Bay maintenance may be undertaken separately to ensure availability of the elements associated to the bays.	Jeerat # 1 Line Shut Down.	
832	400KV BIHARSHARIF- LAKHISARAI CKT-II	27-Dec-20	7:00	27-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing	Other Ckt should be available		
833	A/R OF 400KV BIHARSHARIF- LAKHISARAI CKT-I	27-Dec-20	7:00	27-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing	Line Will trip for Transient SLG Fault		
834	Tie Bay of 400 KV Rajarhat Line and 315 MVA ICT#2 (405 Bay) at Subhasgram	27-Dec-20	7:00	27-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 405 Bay	Both Main bay should be available, at least two dia should be complete	405 Bay will be under Shutdown	
835	Rangpo-Kishanganj AT RANGPO SS	27-Dec-20	7:00	27-Dec-20	15:00	ODB	ER-II	FOR MODIFICATION OF GD LOGIC TO AVOID BUS TRIPPING (SPURIOUS TRIPPINGS).	After return of Rangpo-Binaguri		
836	400 KV Balangir-Meramundali Line	27-Dec-20	7:00	27-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 400KV Balangir-Angul line.	ER-SR TTC Gaziwaka at 350 MW		
837	Main Bay of 400 KV Balangir-Angul Line (401 BAY)	27-Dec-20	7:00	27-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 401 52CB and 401 CT	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
838	714 Tie Bay of 765KV Sundargarh-Angul ckt- 2 & 765KV Sundargarh-Dharamjaygarh ckt-3 at Sundargarh	27-Dec-20	7:00	27-Dec-20	16:00	ODB	ER-II/Odisha/Sundargarh	AMP works	Both Main bay should be available, at least two dia should be complete	NLDC	
839	105 Bay (Pusauli-Kudra Line Bay) at Pusauli	28-Dec-20	7:00	28-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Line to be Charged with Transfer Bus		
840	500MVA ICT-2 AT NEW PURNEA	28-Dec-20	7:00	28-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK	Other ICT(s) Should be available	BSEB	
841	400KV BIHARSHARIF- LAKHISARAI CKT-I	28-Dec-20	7:00	28-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing	Other Ckt should be available		
842	A/R OF 400KV BIHARSHARIF- LAKHISARAI CKT-II	28-Dec-20	7:00	28-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing	Line Will trip for Transient SLG Fault		
843	400KV Maithon - Gaya-II	28-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID ER-I	S/D for changing porcelain insulator by polymer insulator.	Other Ckt should be available		
844	A/R of 400KV Maithon - Gaya-I	28-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID ER-I	A/R in non-auto mode for replacement work.	Line Will trip for Transient SLG Fault		
845	400KV Main Bay of 500 MVA ICT#5 at Subhasgram	28-Dec-20	7:00	28-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 415 Bay	Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	415 Bay will be under shutdown	
846	ICT-I (3x 105 MVA) at Jeypore	28-Dec-20	7:00	1-Jan-21	16:00	ODB	ER-II/Odisha /Jeypore	For 220kV Cable termination and Jumper connection from existing ICT-I to ICT-3 Transformer Bay. (Outage to be booked under Construction Head)	ER-SR TTC / ER-SR TTC to be reduced by 1000 MW	GRIDCO/NLDC	

847	400 KV ROURKELA-SUNDARGARH#1 LINE	28-Dec-20	7:00	28-Dec-20	16:00	ODB	ER- II/ODISHA/ROURKELA	LINE MAINTENANCE WORKS		Other Ckt should be available		
848	717 Tie Bay of 765KV Sundargarh-Angul ckt-1 & 765KV Sundargarh-Dharamajygarh ckt-4 at Sundargarh	28-Dec-20	7:00	28-Dec-20	16:00	ODB	ER- II/Odisha/Sundargarh	AMP works		Both Main bay should be available, at least two dia should be complete	NLDC	
849	132KV Bangiriposi- Baripada PG line	28-Dec-20	7:00	28-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance of line & 132/33KV Bangiriposi grid s/s		Other Ckt should be available		Bhograi will avail P/S from Jaleswar
850	400KV Bus coupler bay at K TPP	28-Dec-20	7:00	29-Dec-20	16:00	ODB	WBSETCL	CT testing		Other Ckt should be available		
851	Jeerat-Rajarhat(PG) 220 KV Ckt 1	28-Dec-20	7:00	28-Dec-20	15:00	ODB	WBSETCL	Tan delta testing of CTs		Other Ckt should be available		
852	400 KV BIHARSHARIF-VARANSI-I	28-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID NR-III	POWERLINE CROSSING BETWEEN LOC NO.851 TO 852		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,		
853	400 KV BIHARSHARIF-VARANSI-II	28-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID NR-III	POWERLINE CROSSING		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,		
854	400 KV SgTPP-Gokarna #2 Bay & Tie Bay.	28-Dec-20	7:00	28-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element./ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated to the bays.	Gokarna #2 Line Shut Down.	
855	400 KV SgTPP-Farakka #2 Bay & Tie Bay.	28-Dec-20	7:00	28-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element./ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated to the bays.	Farakka #2 Line Shut Down.	
856	TIE BAY OF 400KV SLG-1 & ICT-2 (402-52) AT NEW PURNEA	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Both Main bay should be available, at least two dia should be complete		
857	132 KV Bus 2 at Motihari	29-Dec-20	7:00	30-Dec-20	16:00	OCB	POWERGRID ER-I	Erection, HV testing & Bus bar protection testing of extension bus		Other Bus should be available	BSEB	
858	400 KV 315 Mva ICT 1 at Biharsharif	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other ICT(s) Should be available		
859	400KV Biharsharif-Kod erma-2 Main Bay (Bay No 427) at Biharsharif	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		
860	400 KV BIHARSHARIF- PURNEA 1 LINE BAY 437L AT BIHARSHARIF	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Other Ckt should be available		
861	400KV Biharsharif Banka ckt 1	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-I	Retrofitting of auto reclose to numerical relay		Other Ckt should be available		
862	400KV BIHARSHARIF- LAKHISARAI CKT-II	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing		Other Ckt should be available		
863	A/R OF 400KV BIHARSHARIF- LAKHISARAI CKT-I	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing		Line Will trip for Transient SLG Fault		
864	125MVAR BUS REACTOR-1 AT ALIPURDUAR	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-II	AMP Work	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided		
865	400 KV Haldia Line#2 Main Bay at Subhasgram	29-Dec-20	7:00	29-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 413 Bay		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete	413 Bay will be under shutdown	
866	21152- 500MVA ICT #3 BAY at Baripada	29-Dec-20	7:00	29-Dec-20	16:00	ODB	ER- II/Odisha/BARIPADA S/S	AMP works		ICT Should be charged through Transfer Bus		
867	Tie Bay of 315 MVA ICT-1 and 400KV Balangir- Angul Line (40102 BAY) at Balangir	29-Dec-20	7:00	29-Dec-20	16:00	ODB	ER-II/Odisha/Balangir	AMP for 40102 52CB and 40102 CT		Both Main bay should be available, at least two dia should be complete		
868	400 KV 50MVAR Indravati Line LR at Rengali	29-Dec-20	7:00	29-Dec-20	16:00	ODB	ER-II/Odisha/Rengali	For AMP work (400 KV Indravati Line will remain out during swich off (30 min) & switch on (30 min) of LR as the Reactor is non-switchable one)	May be availed after winter (will be reviewed in Feb'21 OCC)	Reactor shutdown in lean winter season should be avoided		
869	400 KV ROURKELA-SUNDARGARH#3 LINE	29-Dec-20	7:00	29-Dec-20	16:00	ODB	ER- II/ODISHA/ROURKELA	LINE MAINTENANCE WORKS		Other Ckt should be available		
870	400KV Sundargarh-Raigarh ckt-1(407L)	29-Dec-20	7:00	29-Dec-20	16:00	ODB	ER- II/Odisha/Sundargarh	AMP works		Other Ckt should be available		
871	315 MVA ICT #1 at SgTPP	29-Dec-20	7:00	29-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element,	ICT#1 Shut Down.	
872	400 KV SgTPP-Jeerat # 1 Bay & Tie Bay.	29-Dec-20	7:00	29-Dec-20	16:00	ODB	WB	Annual Maintenance		Approved as Additional Agenda, other RPC consent will be required in case of interregional & 765KV element./ Main Bay & Tie Bay maintenance may be undertaken seperately to ensure availability of the elements associated to the bays.	Jeerat # 1 Line Shut Down.	
873	103 Bay (Pusauli-Kamanasa Bay) at Pusauli	30-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID ER-I	FOR AMP WORK		Line may be charged throuh Transfer Bus		
874	400KV BIHARSHARIF- LAKHISARAI CKT-I	30-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing		Other Ckt should be available	BSEB	
875	A/R OF 400KV BIHARSHARIF- LAKHISARAI CKT-II	30-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID ER-I	Replacement of Polymer Insulator at 06 (Six) Nos. ROAD/RIVER/RAIL/POWERLINE crossing		Line Will trip for Transient SLG Fault		
876	Tie Bay of 400 KV Haldia Line#2 and 500 MVA ICT#5 at Subhasgram	30-Dec-20	7:00	30-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 414 Bay		Both Main bay should be available, at least two dia should be complete	414 Bay will be under shutdown	
877	160 MVA ICT I at Baripada	30-Dec-20	7:00	30-Dec-20	16:00	ODB	ER- II/Odisha/BARIPADA S/S	AMP works		Other ICT(s) Should be available	GRIDCO	
878	220KV Budhipadar-Korba ckt-3	30-Dec-20	7:00	30-Dec-20	16:00	ODB	ER- II/Odisha/Sundargarh	AMP works		Other Ckt should be available		
879	400KV Mendhasal- Meramundali ckt-I	30-Dec-20	7:00	30-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance work at Mendhasal Grid S/S and Line isolator alignment and overhauling at Meramundali grid.		Other Ckt should be available		400KV Mendhasal- Meramundali Ckt-II will remain in service.
880	220KV Balasore PG-Balasore CKT-I	30-Dec-20	7:00	30-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other Ckt should be available		220KV Balasore PG-Balasore CKT-II will remain in service
881	220KV Jayanagar-Jeypore PG ckt-II	30-Dec-20	7:00	30-Dec-20	16:00	ODB	GRIDCO	Annual Maintenance		Other Ckt should be available/ Gazuwaka to ber restricted to 350 MW	NLDC	220kv Jayanagar-Jeypore PG ckt-I will remain in service
882	400 KV Haldia Line#1 Main Bay at Subhasgram	31-Dec-20	7:00	31-Dec-20	16:00	ODB	POWERGRID ER-II	AMP of 416 Bay		Tie Bay and Main bay of Tie Should be available, Atleast two dia should be complete		416 Bay will be under shutdown
883	765KV Sundargarh_Dharamajygarh ckt-3	31-Dec-20	7:00	31-Dec-20	12:30	ODB	ER- II/Odisha/Sundargarh	AMP works & GUY arrangement works		Other Ckt should be available	NLDC	

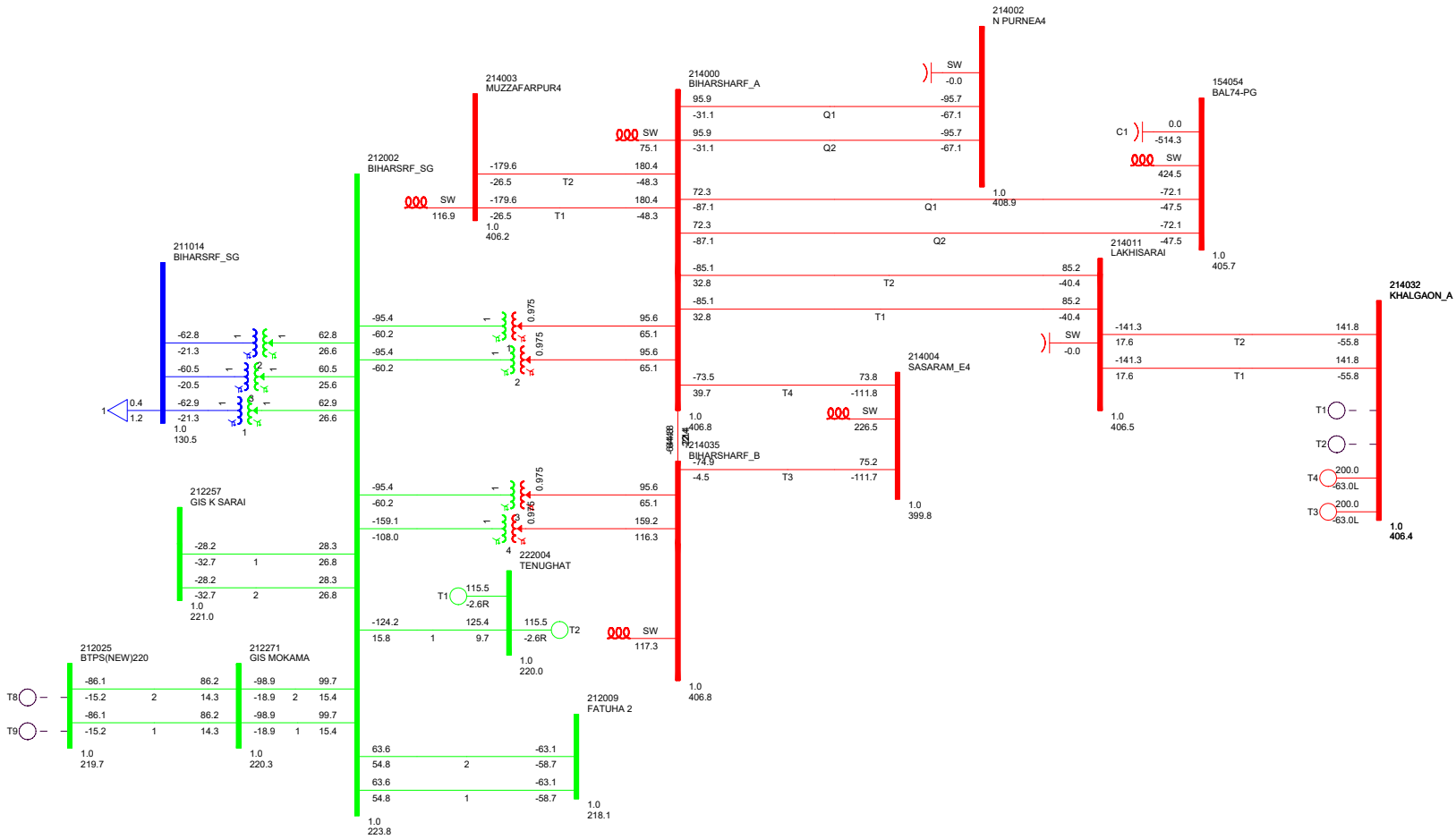
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SPS Testing at Rangpo on 29.10.2020

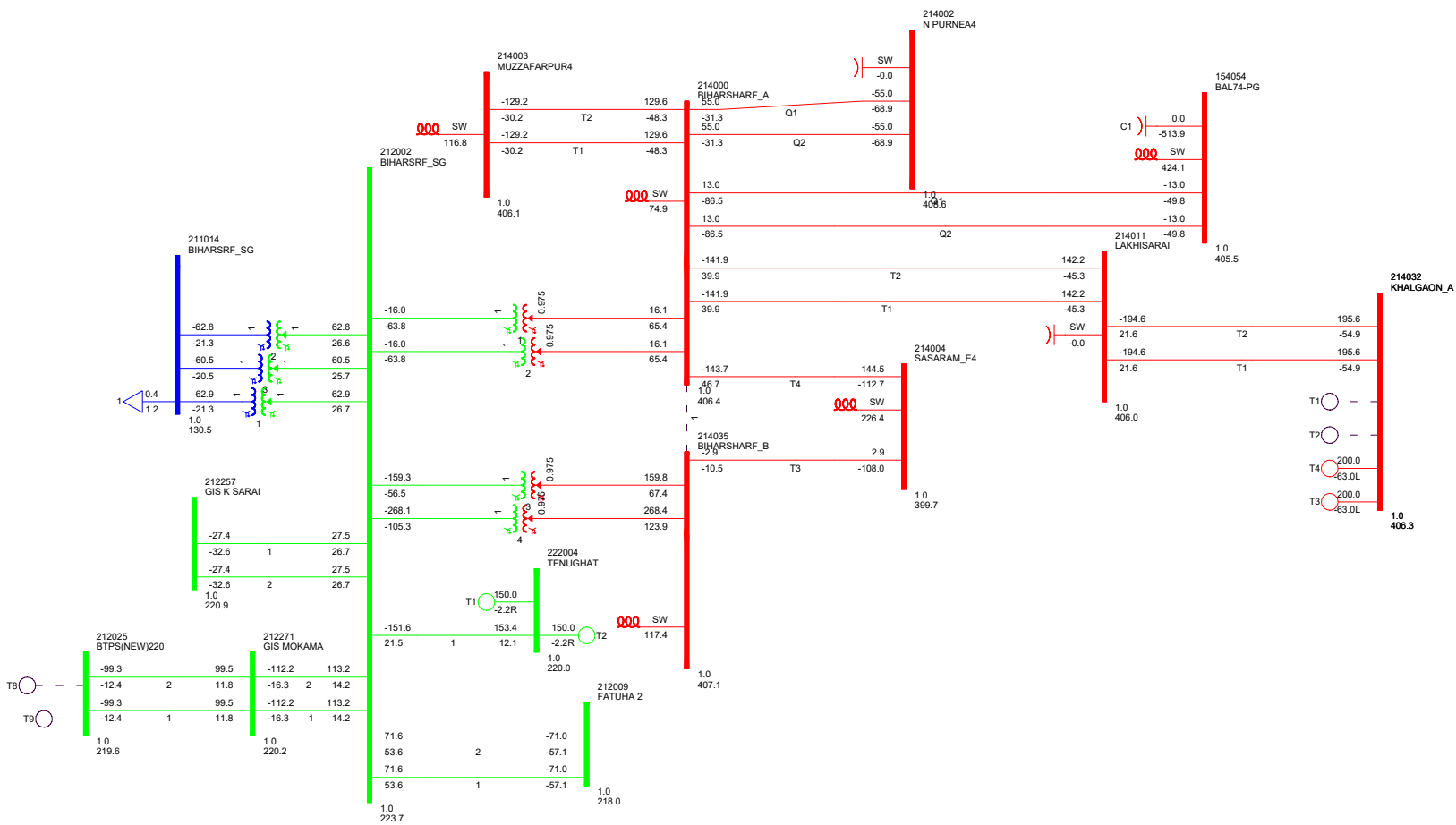
Logic 1			Logic 2		
Rangpo	14:57:36:170		Rangpo	15:24:53:780	
Name of Generating unit	Time	Difference of transmission time from Rangpo to respective end (in ms)	Name of Generating unit	Time	Difference of transmission time from Rangpo to respective end (in ms)
Jorethang	14:57:37:117	947	Jorethang	15:24:54:389	609
Tashiding	14:57:37:539	1369	Tashiding	15:24:54:833	1053
Teesta-3	14:57:36:222	52	Teesta-3	15:24:53:833	53
Dikchu	14:57:36:884	714	Dikchu	15:24:55:169	1389
Teesta-V	14:57:36:217	47	Teesta-V	15:24:53:827	47
Chuzachen	14:58:10:463	34 secs 241 msec	Chuzachen	15:24:28:073	34 secs 293 msec

Annexure C9

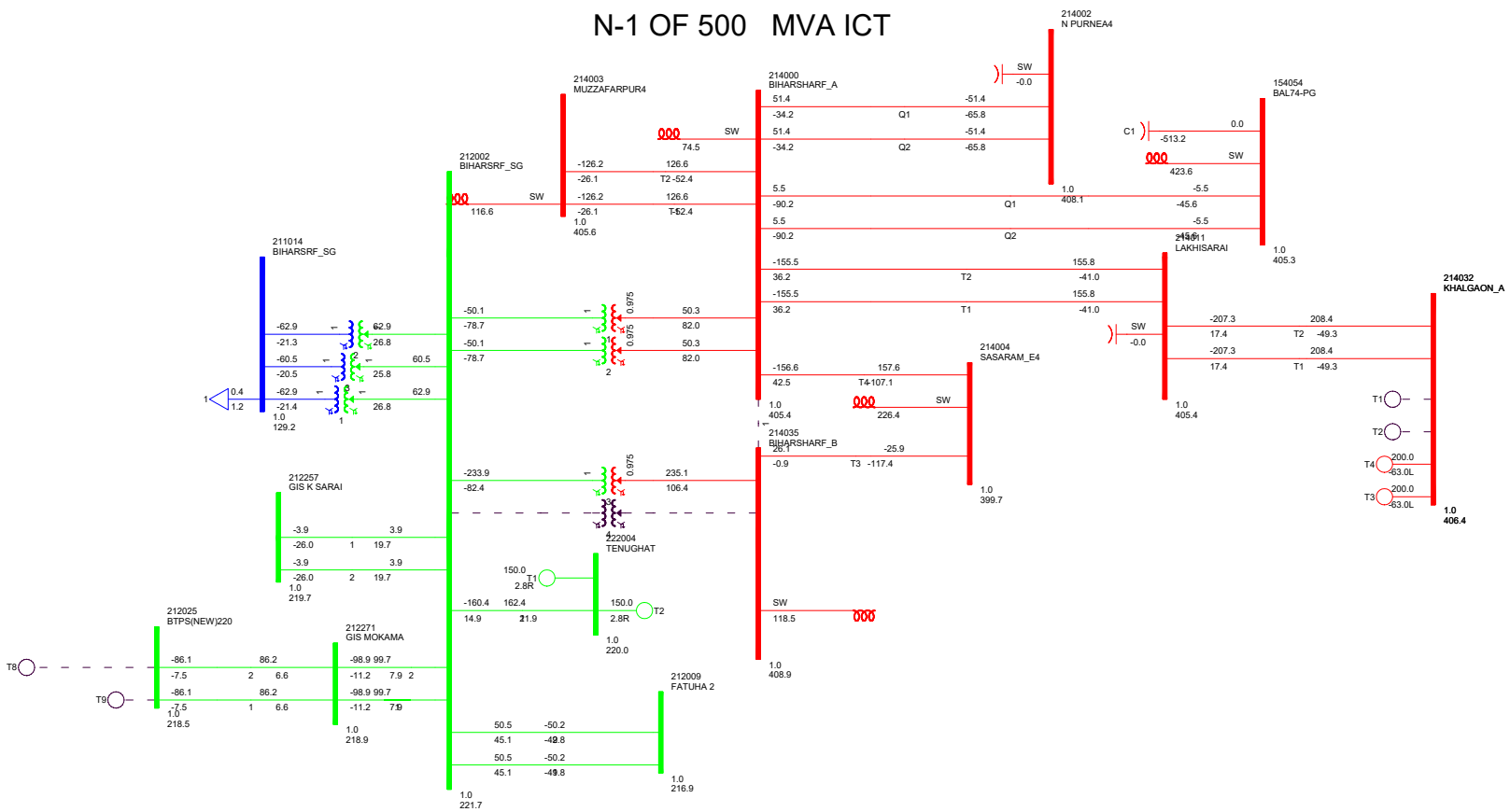
BASE CASE DURING OFF PEAK HOURS AND BUS COUPLED AT BIHARSHARIFF



BASE CASE DURING PEAK HOURS AND BUS OPEN AT BIHARSHARIFF

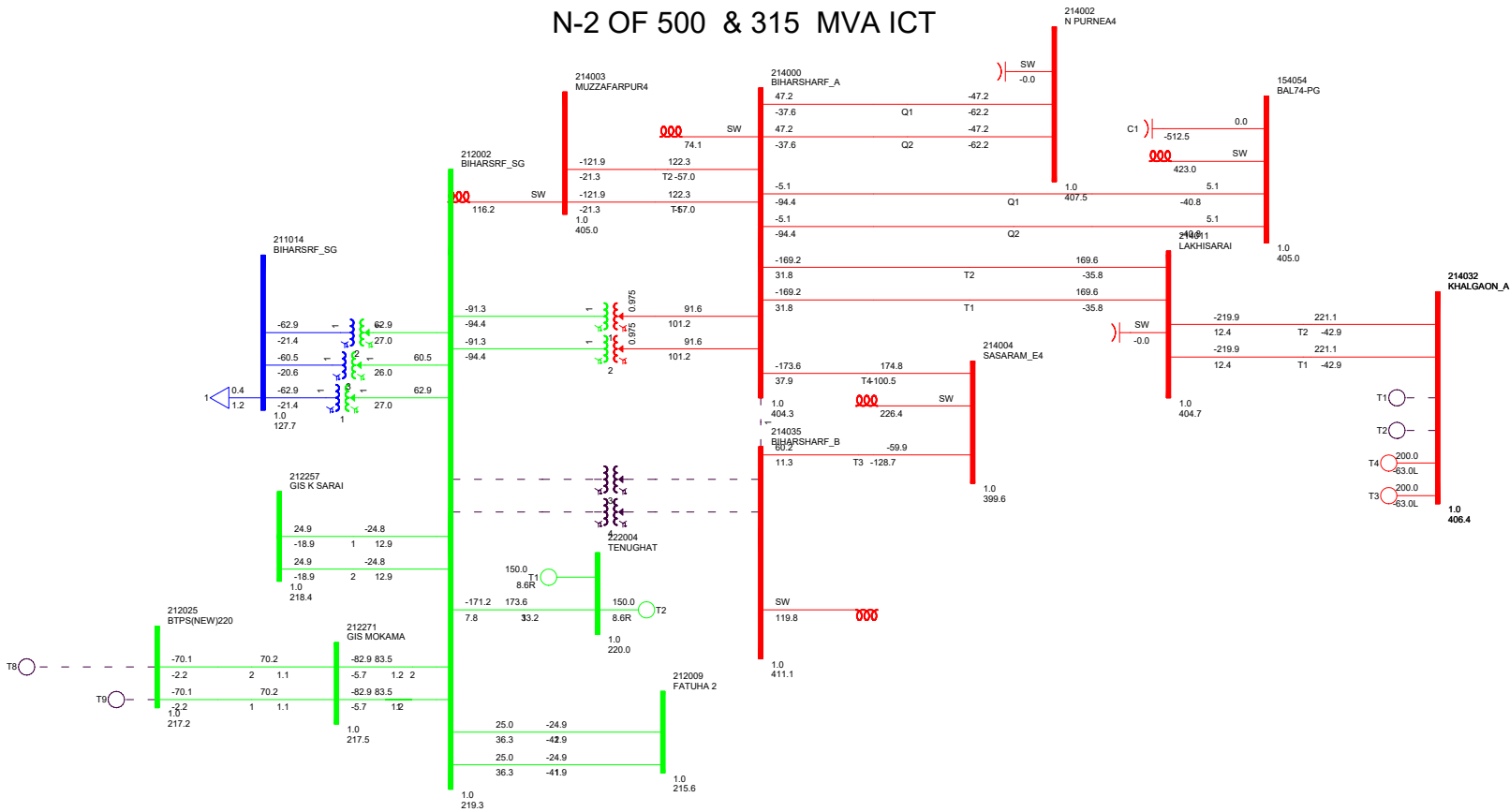


N-1 OF 500 MVA ICT

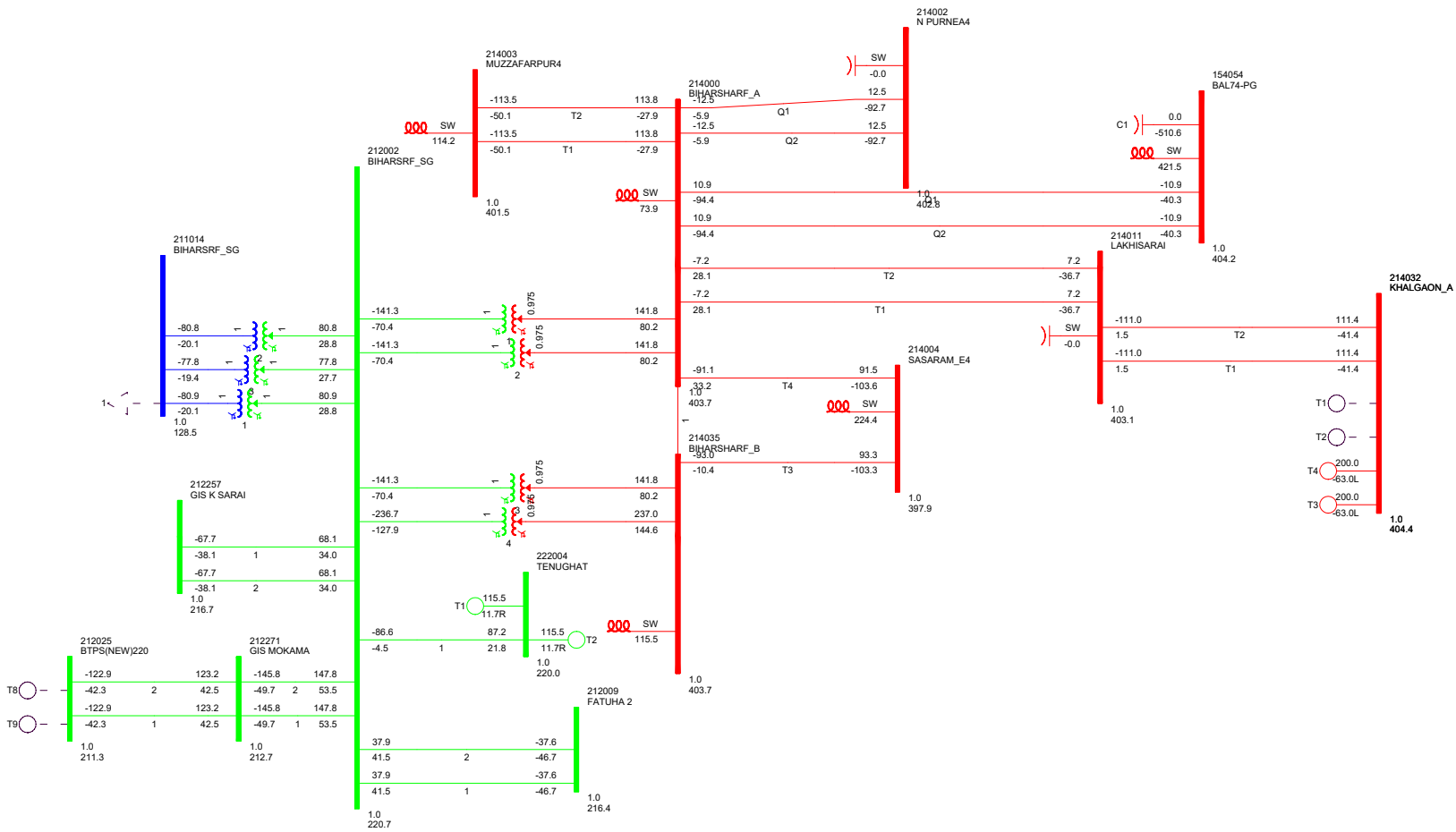


BASE CASE DURING OFF PEAK HOURS AND BUS OPEN AT BIHARSHARIFF

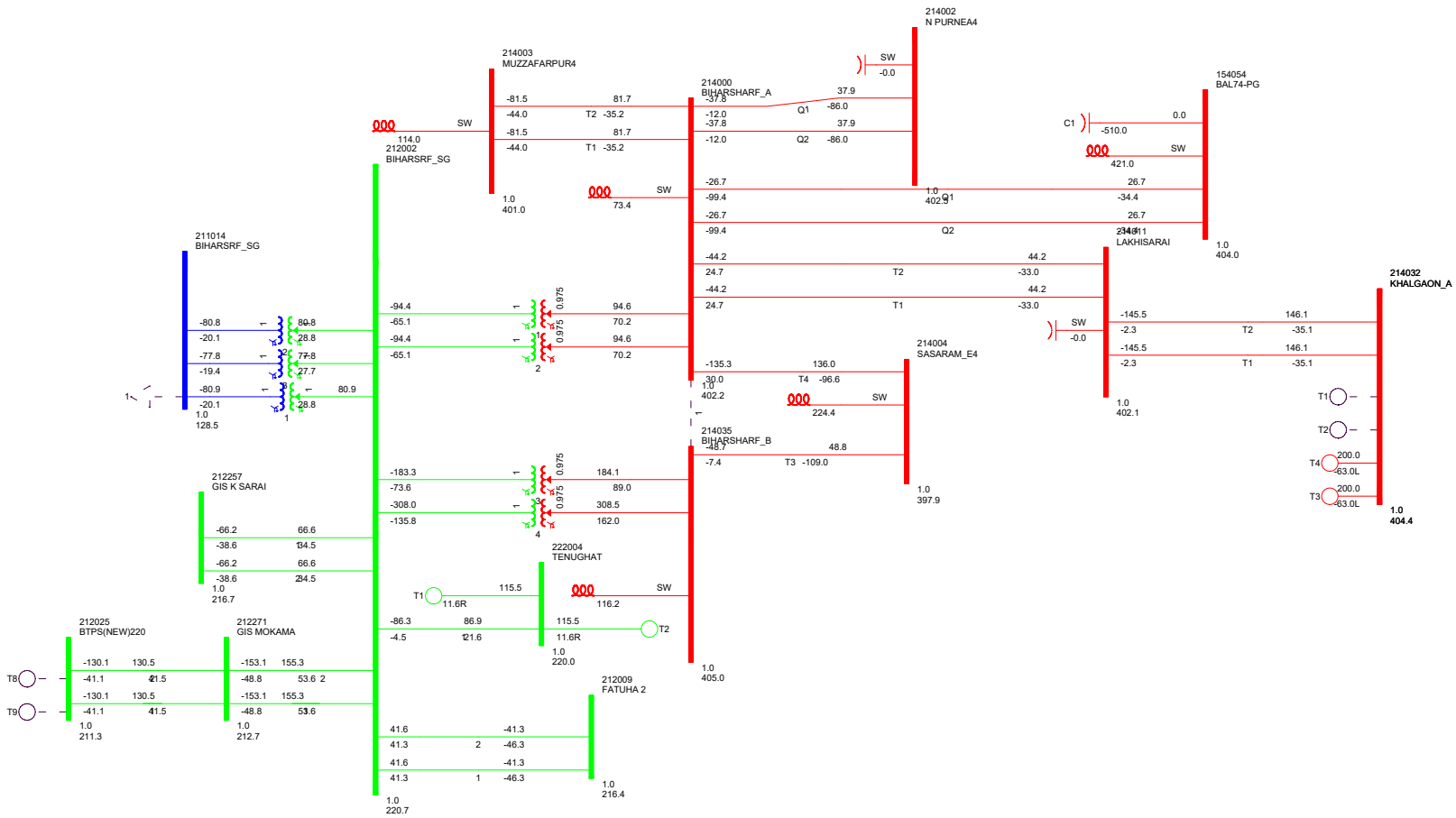
N-2 OF 500 & 315 MVA ICT



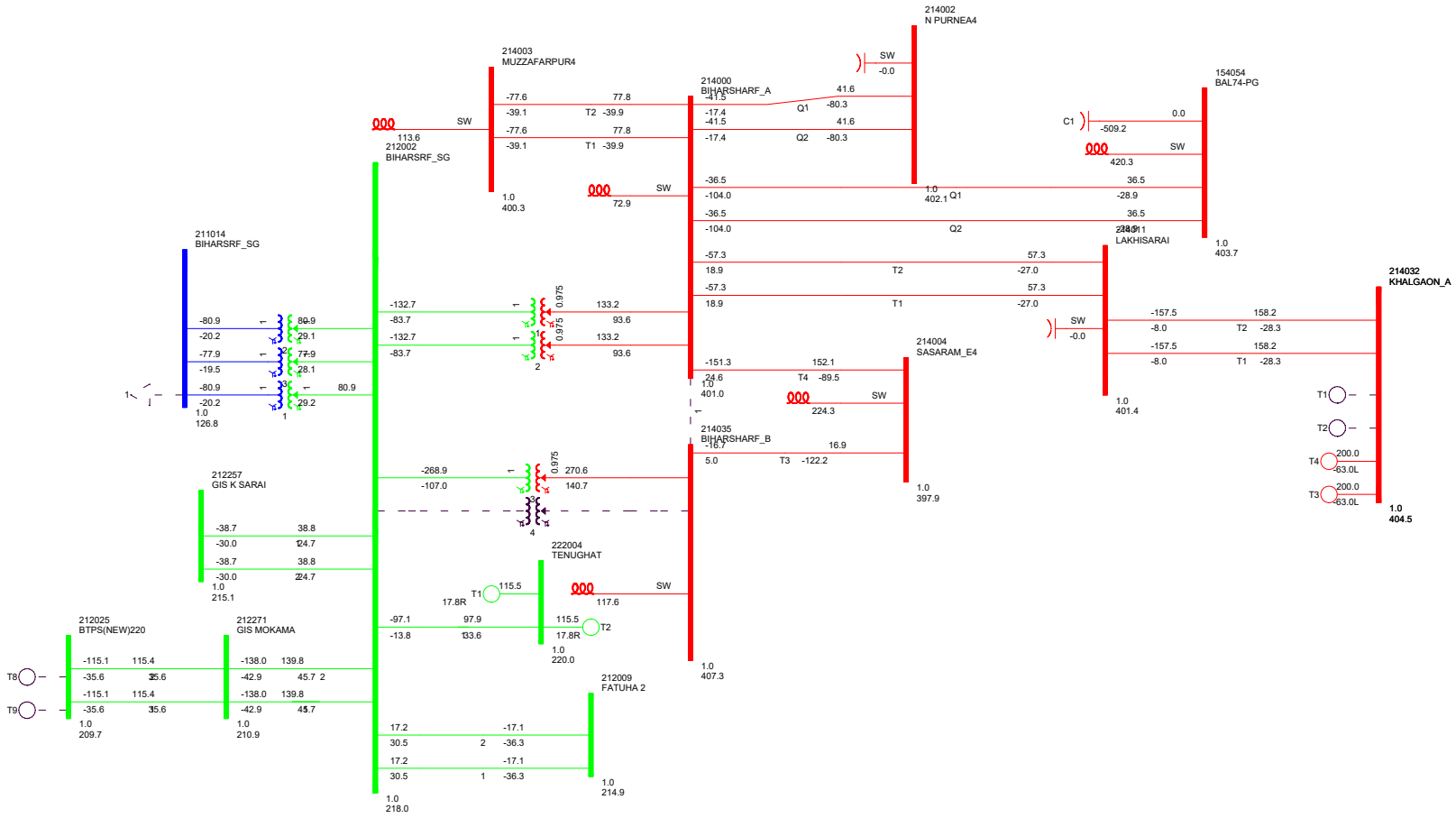
BASE CASE DURING PEAK HOURS AND BUS OPEN AT BIHARSHARIFF



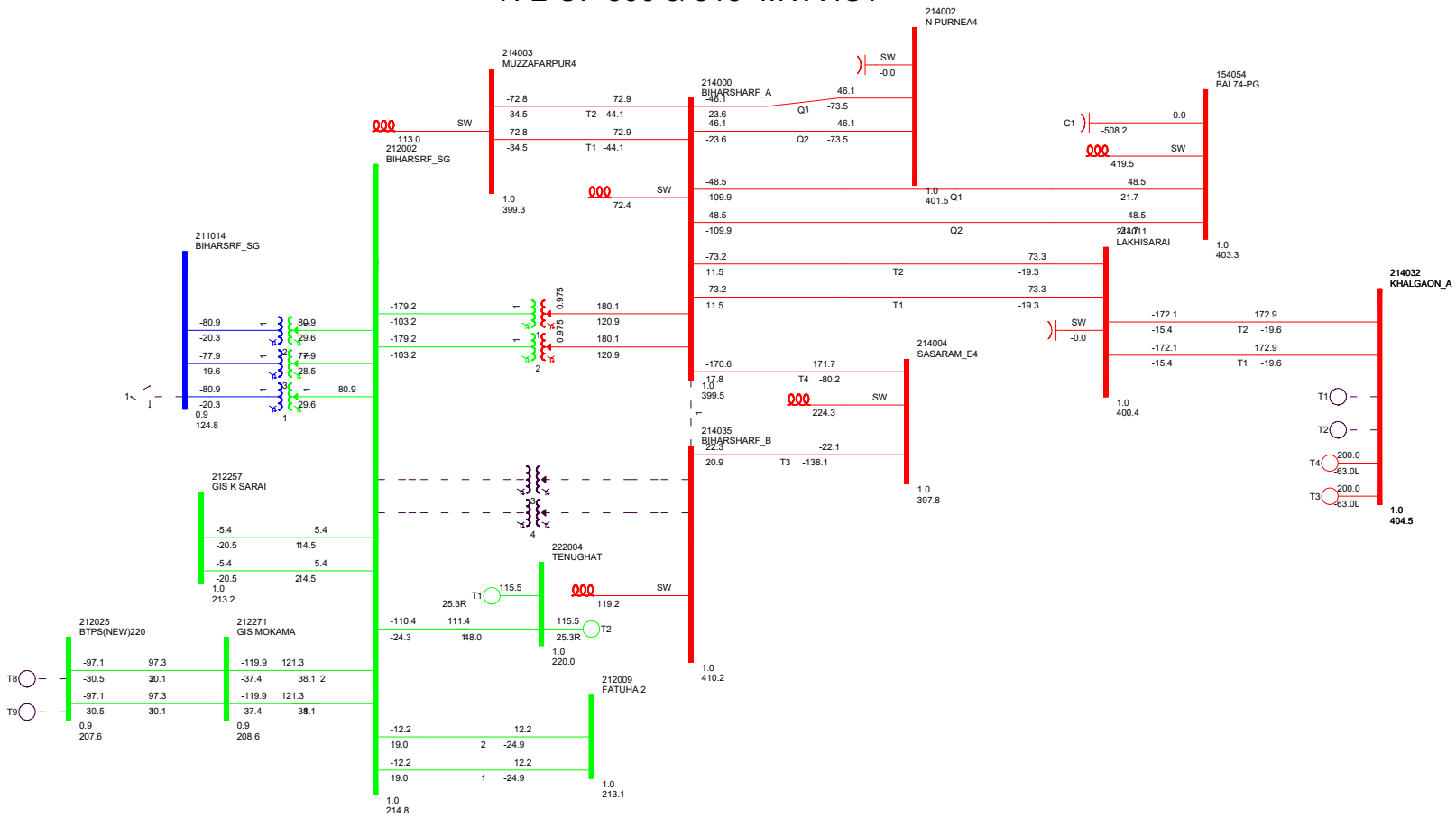
BASE CASE DURING PEAK HOURS AND BUS OPEN AT BIHARSHARIFF

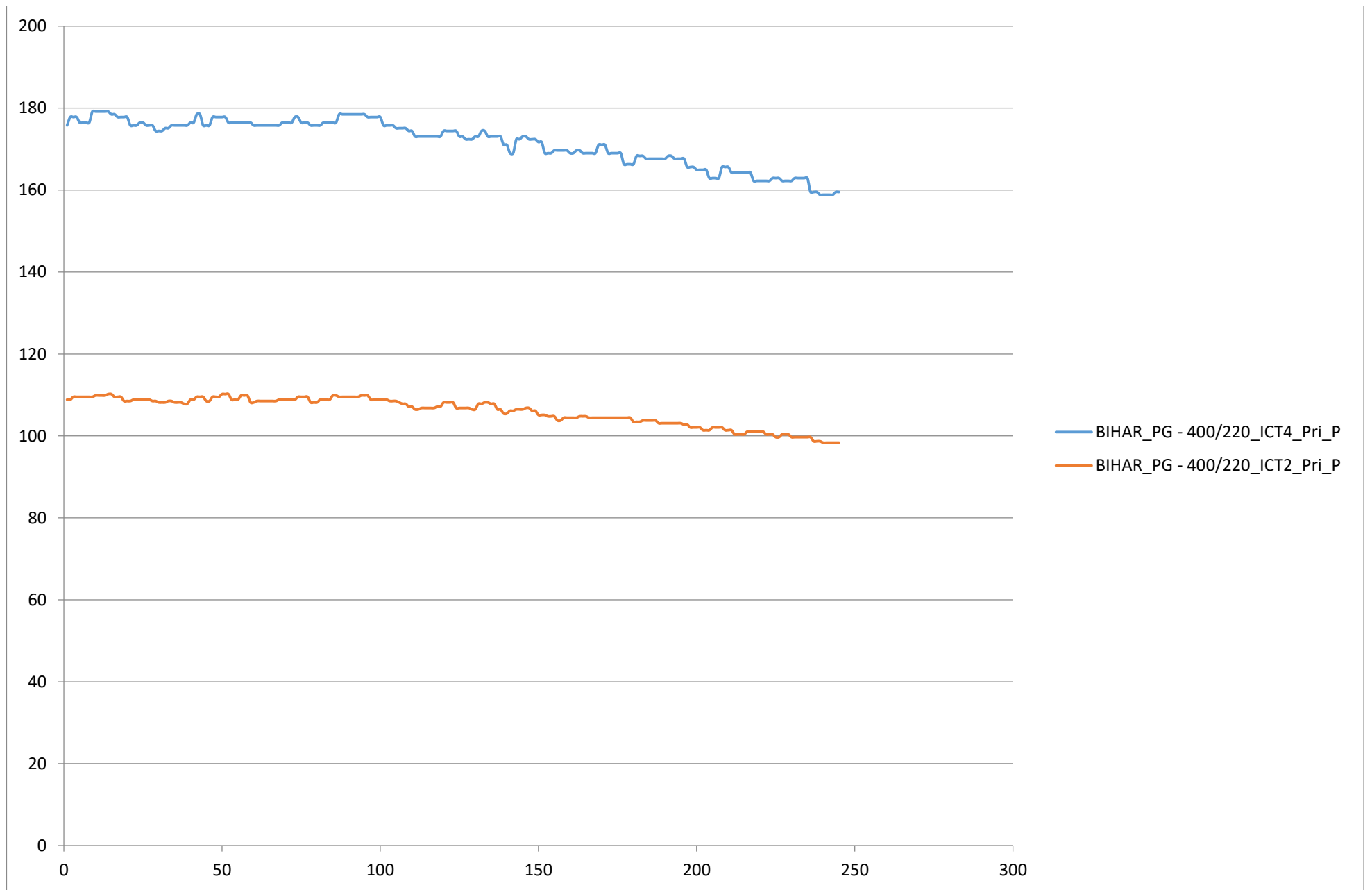


BASE CASE DURING PEAK HOURS AND BUS OPEN AT BIHARSHARIFF N-1 OF 500 MVA ICT



BASE CASE DURING PEAK HOURS AND BUS OPEN AT BIHARSHARIFF N-2 OF 500 & 315 MVA ICT





Contingency	Bus coupled		Bus opened	
↓	315 MVA ICT loading	500 MVA ICT loading	315 MVA ICT loading	500 MVA ICT loading
Base case	3X138	238	90,90 & 180	303
N-1 of 500 MVA ICT	NA	NA	127,127 and 265	--
N-2 of 500 MVA ICT and 315 MVA ICT of same bus	NA	NA	2X172	--

400 kV Bus Split Operation at 400/220 kV Bihar Sharif(PG)

Operational Summary

Bus Split Operation Commenced : 18-10-2020 10:48 Hrs

400 kV Bus Split closed :19-10-2020 12:48 Hrs

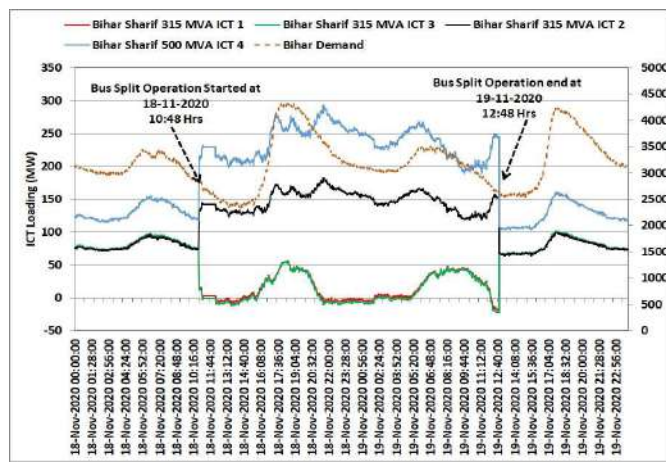
1

Pre and Post Bus Split Operation : Actual Loading Vs Simulation

Element	Flow Before Bus split(10:27 hrs)		Flow After Bus split(10:55 hrs)	
	Real Time	Simulation	Real Time	Simulation
Varanasi-1	107	50	102	87
Varanasi-2	106	50	101	87
Banka-1	-188	-127	-127	-88
Banka-2	-190	-127	-130	-88
BUS 3 & 4 Koderma-1	-228	-240	-212	-183
Koderma-2	-229	-240	-213	-183
ICT-4	120	109	216	190
ICT-2	75	70	135	118
Sasaram-1	105	9	126	61
Lakhisarai-2	-163	-127	-215	-160
Sasaram-2	111	9	17	-42
Balla-2	167	137	75	93
Lakhisarai-1	-154	-127	-195	-160
ICT-1	74	70	15	16
ICT-3	76	70	14	16
BUS 1 & 2 Muzaffarpur-1	101	128	129	91
Muzaffarpur-2	105	128	134	91
Purnea-1	-98	10	-34	-19
Purnea-2	-98	10	-36	-19
Balla-1	169	137	77	93

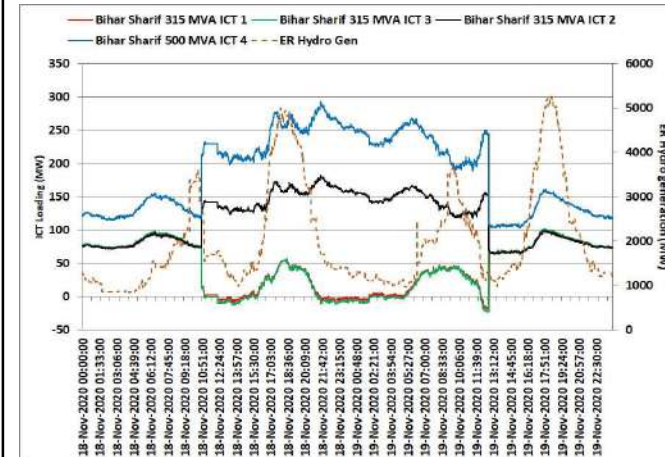
2

400/220 kV Bihar Sharif ICT flows Vs Bihar Demand



3

400/220 kV Bihar Sharif ICT flows Vs ER Hydro Generation



4

Pre and Post Bus Split Operation : Contingency Results for Peak Hours

Contingency	Peak Hours condition			
	Before Bus split		After Bus split	
	315 ICT loading	500 ICT loading	315 ICT loading	500 ICT loading
Base Case	3X141	237	2X90 & 180	308
N-1 of 500 MVA ICT-4	3X184	--	2X132 & 268	--
N-2 of 500 MVA ICT-4 & 315 MVA ICT-2 of same bus	2X225	--	2X179	--
N-2 of 500 MVA ICT-4 & 315 MVA ICT-2 of other bus	2X225	--	170 & 288	--



Power System Operation Corporation Ltd.

173rd OCC Meeting



At ERPC, Kolkata

24th Nov, 2020

ER Grid Performances

ERLDC POSOCO

Highlights for the month of October-2020

Frequency Profile

Average Freq:- 50.0 Hz
Avg FVI: - 0.026
Lowest FVI:- 0.018

Max- 50.27 Hz on 12th October'20

Min- 49.70 Hz on 28th October'20

81.87% of the time freq was with in IEGC Band

Peak Demand*

ER: 23242 MW on 20th October 2020 at 19:00 hrs

% Growth in Average Demand Met w.r.t. last year: 12.24%

BSPHCL : 6017 MW ; ON 16/10/20

JUVNL: 1591 MW; ON 13/10/20

DVC: 3745 MW; ON 27/10/20

GRIDCO: 5151 MW; ON 19/10/20

WB: 8860 MW; ON 17/10/20

SIKKIM: 98 MW; ON 17/10/20

New Unit
NIL

Open Access
STOA transactions approved : 398 nos.

Energy Approved- 653 MUs

Energy met

Max. 490 MU on 17th Oct. 2020

%Growth w.r.t. last year on Max energy : 10.72%

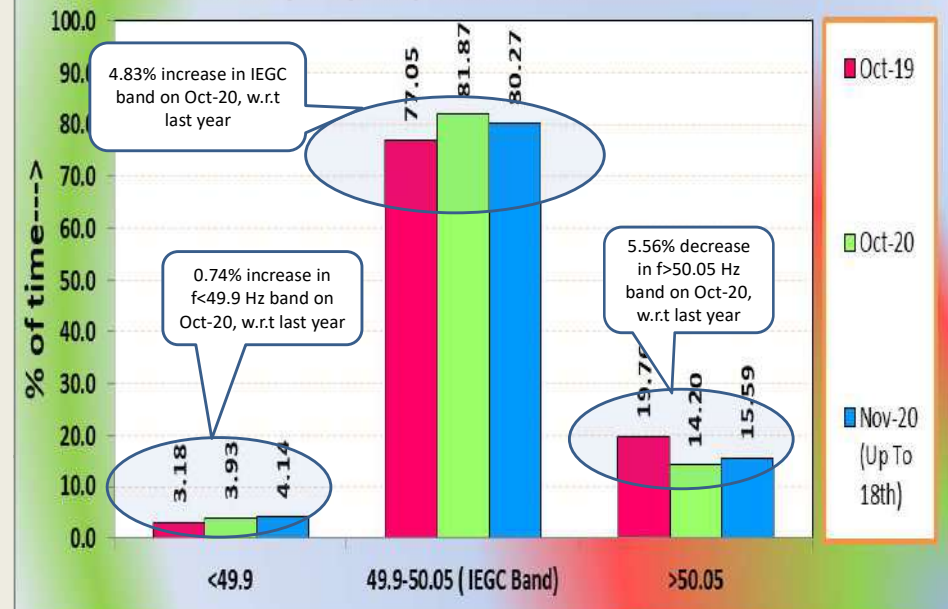
Avg. 468 MU in October 2020

%Growth w.r.t. last year on Avg. energy : 12.68%

New Element addition during the month October 2020:

SL NO	Element Name	Owner	Charging Date	Charging Time	Remarks
1	400kV Sagardighi - Gokarna I	WBSETCL	27/10/20	0:40	
2	400kV Sagardighi - Gokarna II	WBSETCL	28/10/20	18:09	
3	Anti theft charge of 765 kV New Ranchi-Medinipur D/C with LR Ckt 2	PGCIL	24/10/20	18:42	Upto 118.9kM from New Ranchi end Upto 18.9kM from New Ranchi end
4	Anti theft charge of 765 kV New Ranchi-Medinipur D/C with LR Ckt 1	PGCIL	28/10/20	16:13	
5	132/33 kV Grid SIS. Pratapsasan charged by LILO arrangement in 132 kV Kesura Nimapada	OPTCL	30/10/20	19:32	

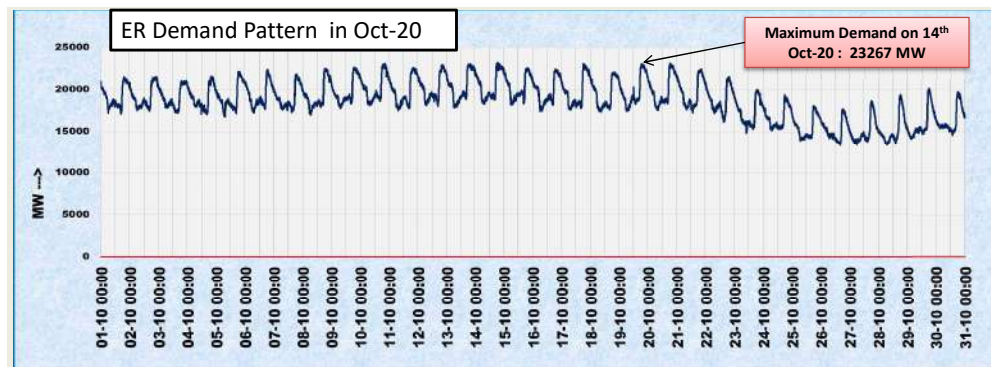
Monthly Frequency Profile of Grid



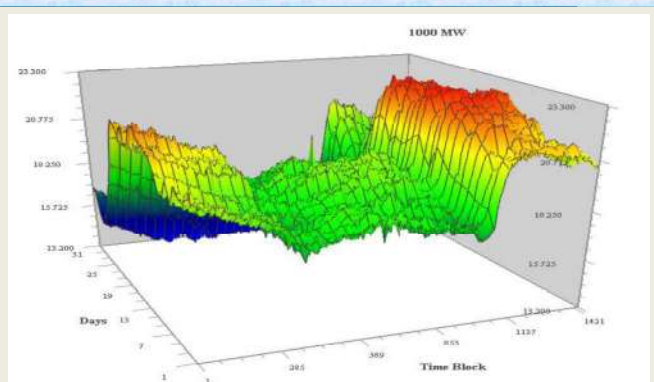
So Far Highest Demand					
Constitute	Demand (in MW)	Date	Time	Demand met (MW) on 20 th october'20 (max dmd met day)	
				MW	Time
Bihar	6189	10-Sep-20	20:12	5862	20:29
DVC	3552	20-Oct-20	23:52	3313	09:09
Jharkhand	1692	14-Sep-20	19:51	1560	19:00
Odisha	5558	23-Aug-18	20:21	4367	18:59
Sikkim	193	24-Jan-20	18:28	90	17:40
W. Bengal	9546	27-May-19	23:31	8620	18:18
ER	23645	03-Aug-20	20:47	23242	19:00

So Far Highest Energy Consumption			
Constitute	Energy consumption (in MUs)	Date	Energy met on 17 th october'20 (max dmd met day)
Bihar	124.7	05-Sep-19	117.6
DVC	76.6	27-Apr-19	66.64
Jharkhand	30.6	15-Sep-20	30.07
Odisha	116.6	05-Oct-18	89.84
Sikkim	2.01	24-Jan-20	1.37
W. Bengal	206.2	18-Jul-19	178.76
ER	516.6	20-May-19	490

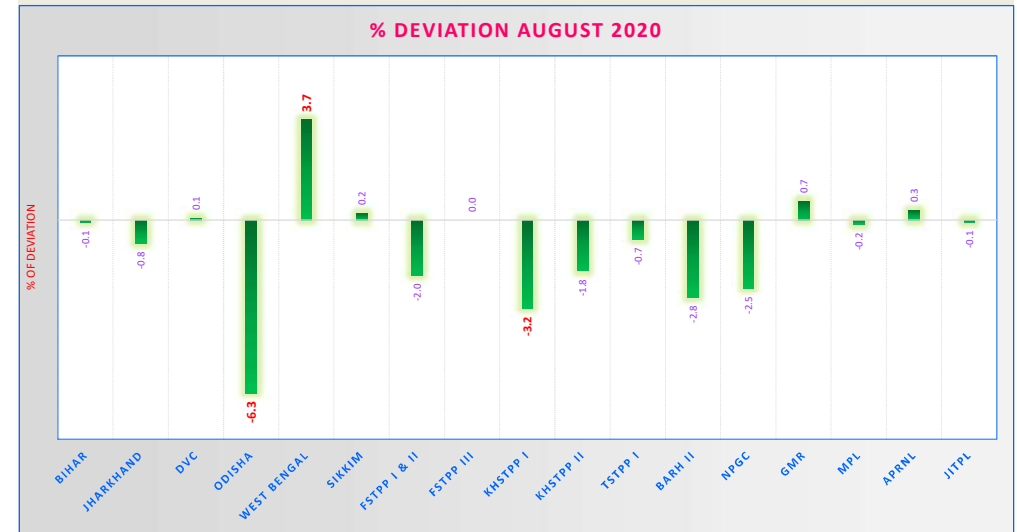
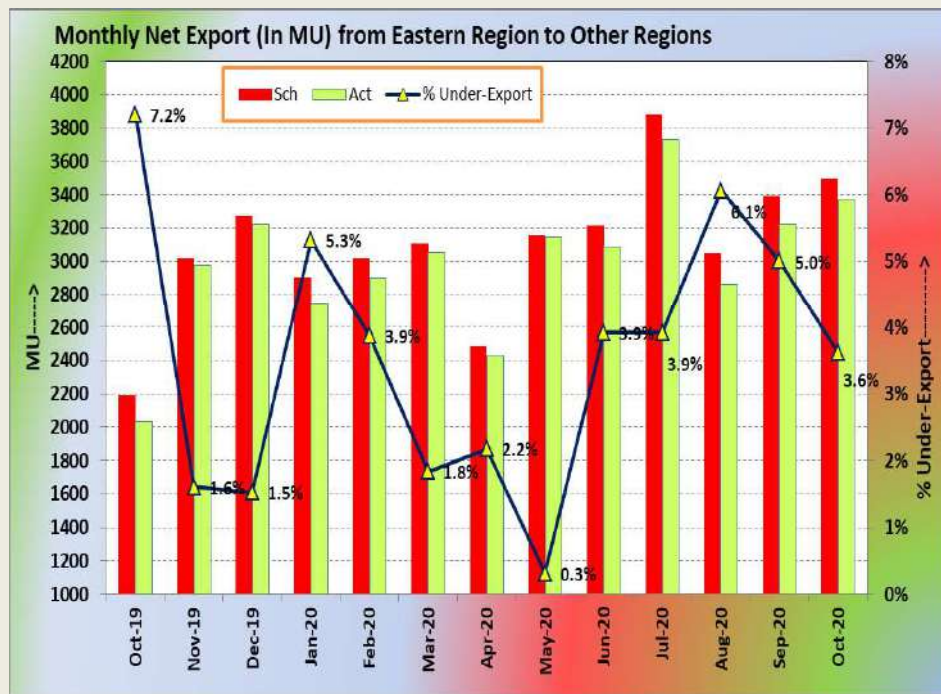
3D VIEW OF ER DEMAND PATTERN



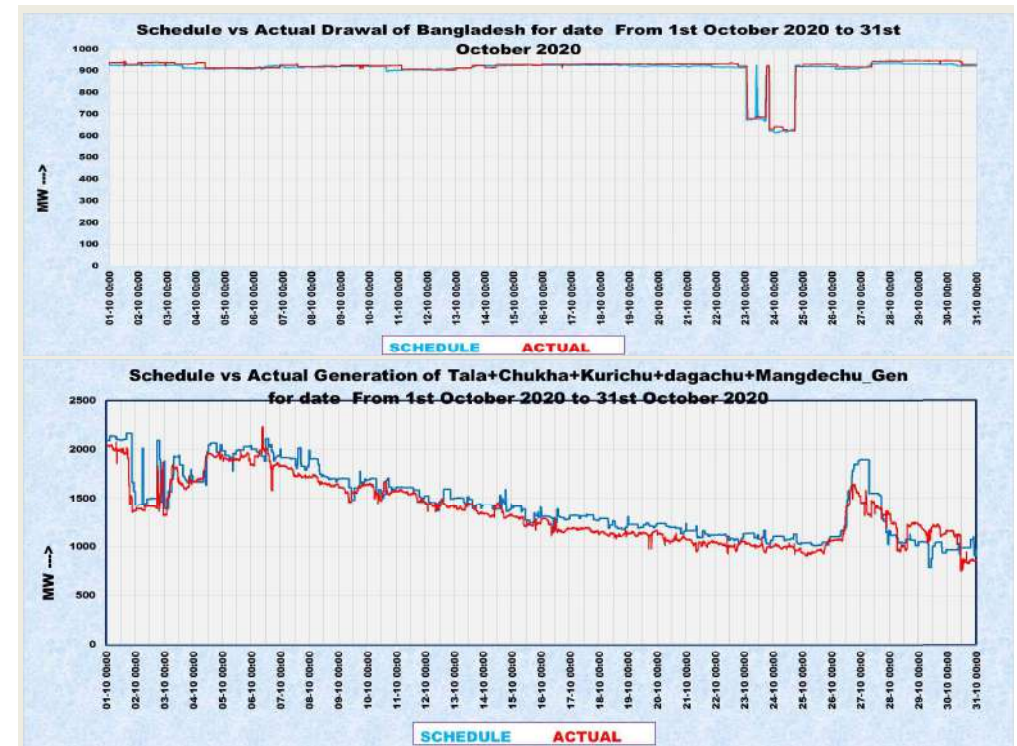
EASTERN REGION DEMAND
3D CURVES (Oct'20)

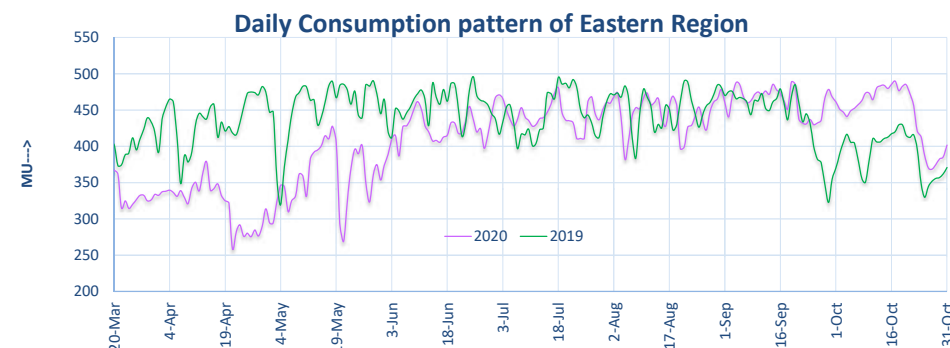
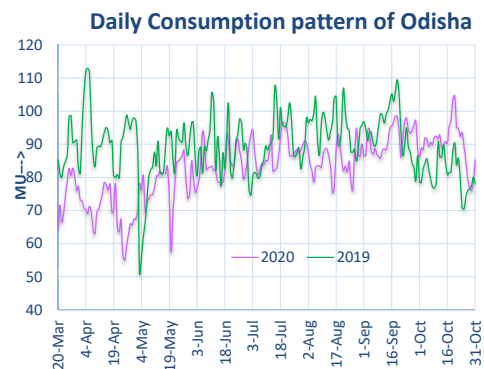
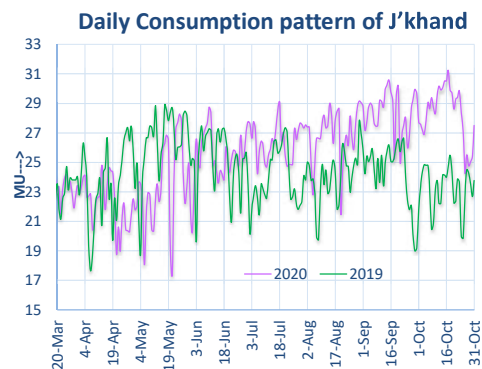
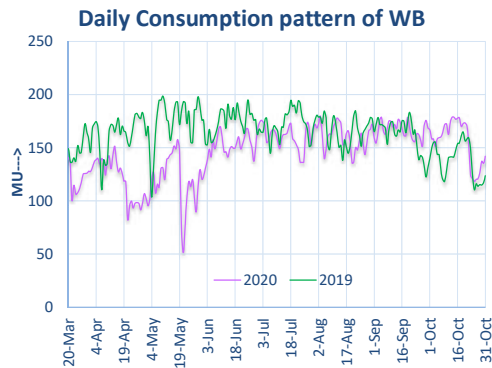
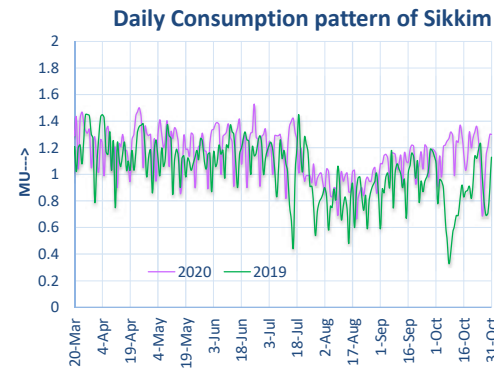
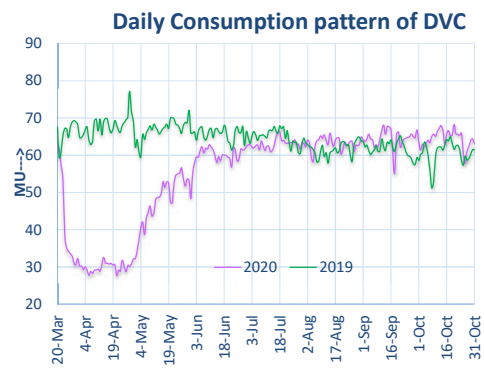
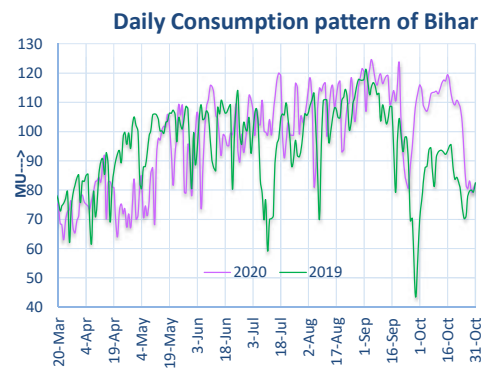


Over Drawl / Under Injection by ER
Entities
Non-compliance of direction issued by
SLDC

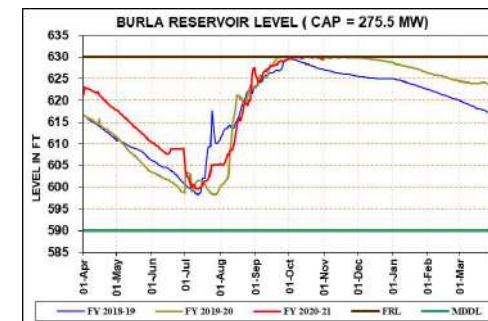
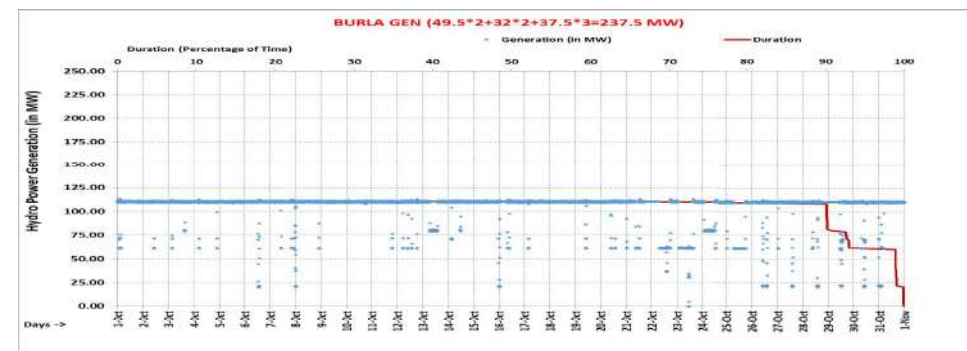


October 2020 Schedule vs Actual Status					
	Schedule (MU)	Actual (MU)	OD (MU)	Daily Avg OD (MU)	% Deviation
Bihar	3145	3143	-2	-0.1	-0.1
Jharkhand	679	674	-6	-0.2	-0.8
DVC	-1488	-1487	1	0.0	0.1
Odisha	387	362	-24	-0.8	-6.3
West Bengal	1511	1567	55	1.8	3.7
Sikkim	41	41	0	0.0	0.2
FSTPP I & II	678	664	-14	-0.4	-2.0
FSTPP III	285	280	-5	-0.2	0.0
KHSTPP I	441	427	-14	-0.5	-3.2
KHSTPP II	600	589	-11	-0.4	-1.8
TSTPP I	662	657	-5	-0.1	-0.7
BARH II	705	685	-20	-0.6	-2.8
NPGC	378	369	-9	-0.3	-2.5
GMR	479	483	3	0.1	0.7
MPL	493	493	-1	0.0	-0.2
APRNL	249	250	1	0.0	0.3
JTPL	386	386	0	0.0	-0.1

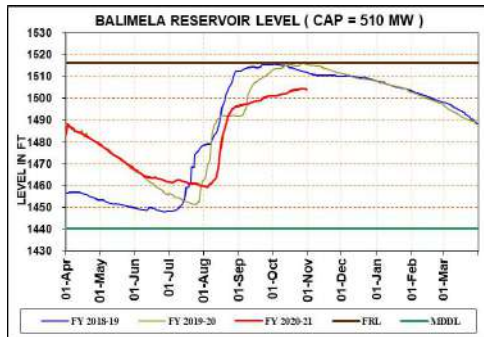
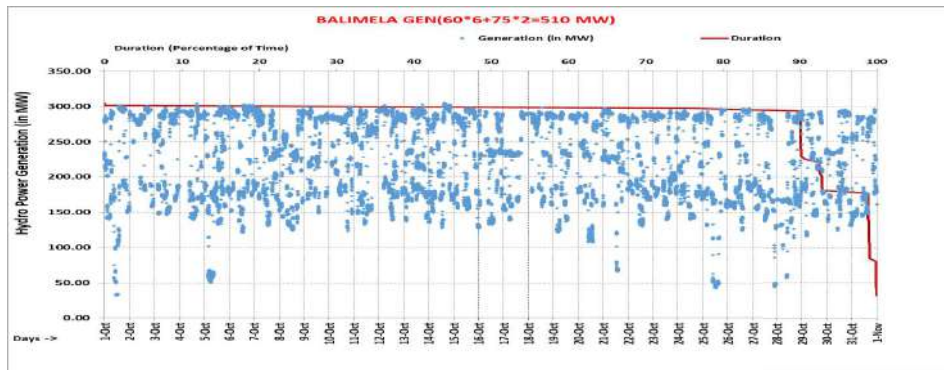




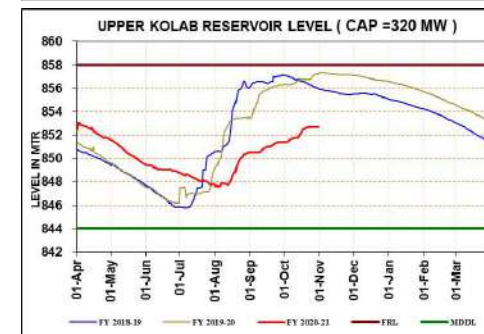
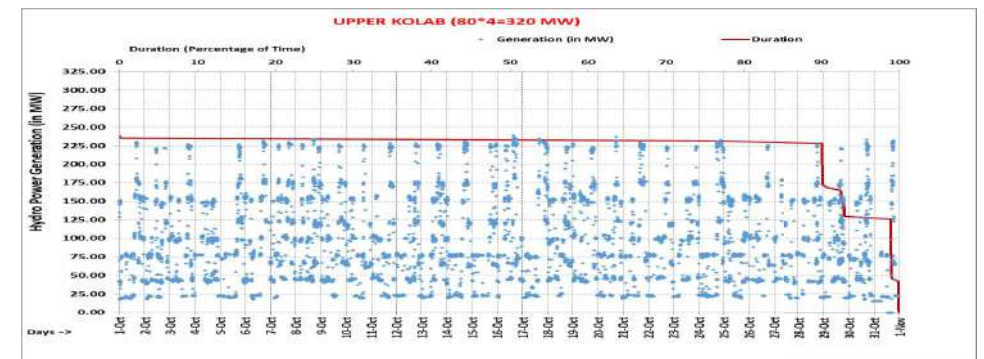
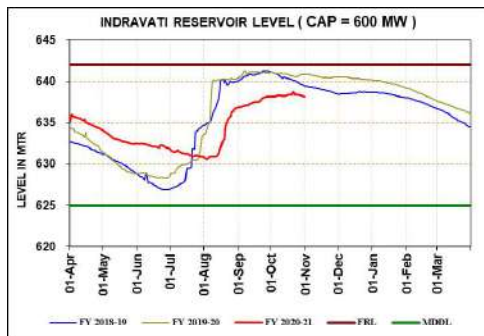
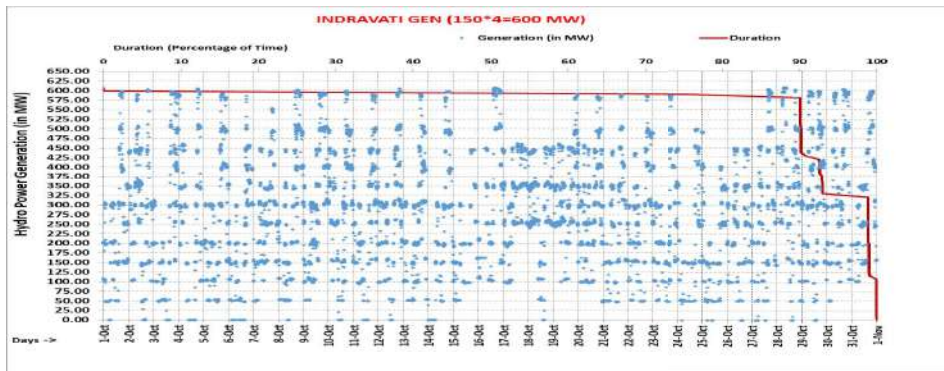
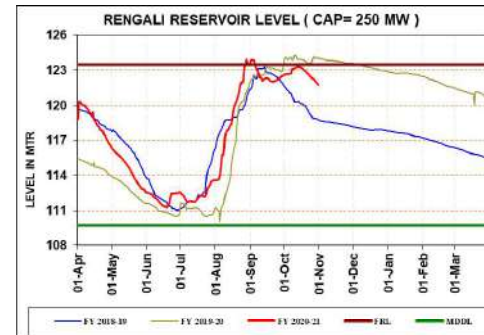
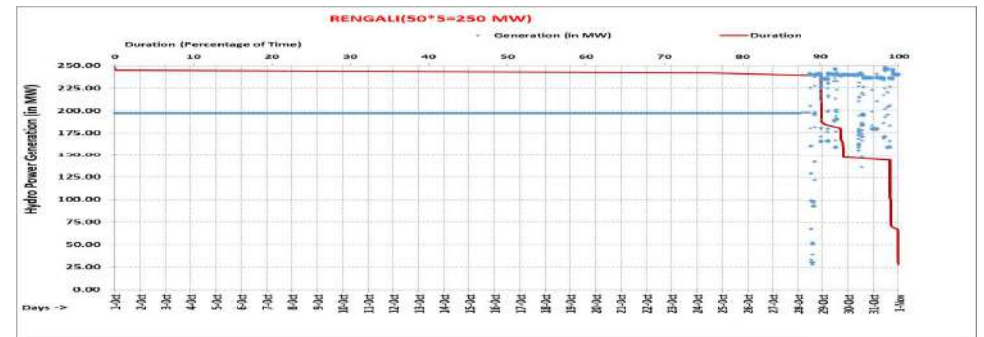
State Hydro Generators Performance



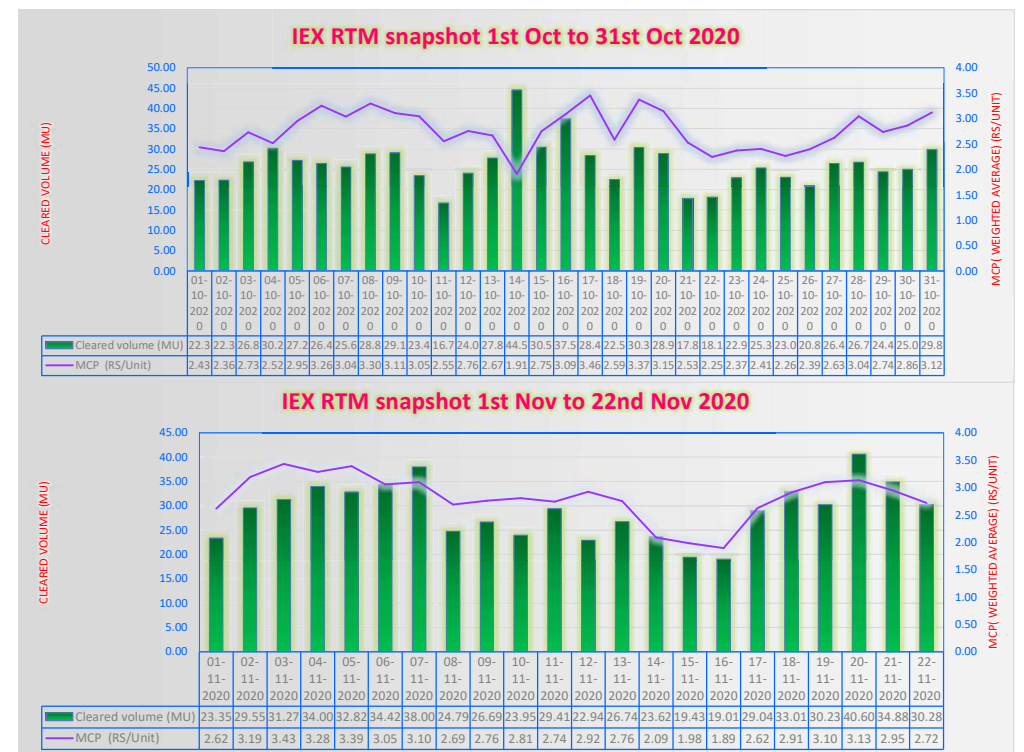
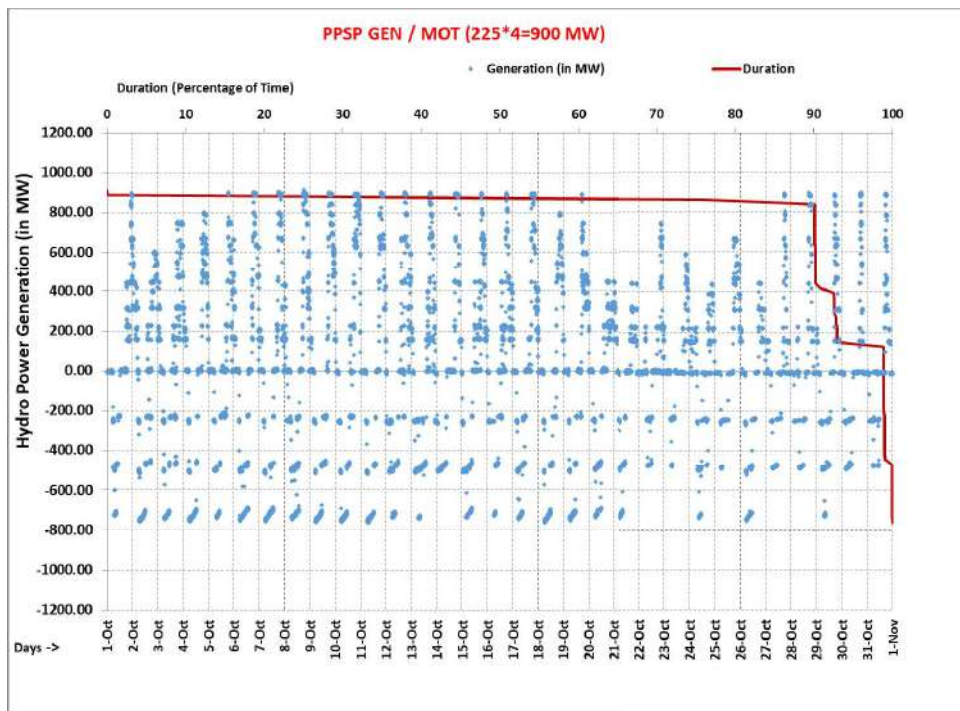
Unit	Capacity	Reason	Outage Date
1	49.5	R & M WORK	14-Mar-2018
5	37.5	R & M WORK	25-Oct-2016
6	37.5	R & M WORK	16-Oct-2015
7	37.5	ANNUAL MAINTENANCE	06-Dec-2019



Unit	Capacity	Reason	Outage Date
1	60	R & M WORK	05-Aug-2016
2	60	R & M WORK	20-Nov-2017
4	60	Problem in PMG	02-Mar-2020



Unit	Capacity	Reason	Outage Date
3	80	Turbine Guide Bearing Problem	07-Jan-2020



ANTICIPATED POWER SUPPLY POSITION FOR THE MONTH OF DEC-20			
SL.NO	PARTICULARS	PEAK DEMAND IN MW	ENERGY IN MU
1	BIHAR		
i)	NET MAX DEMAND	4850	2550
ii)	NET POWER AVAILABILITY- Own	400	174
iii)	Central Sector+Bi-Lateral	4613	2223
iv)	SURPLUS(+)/DEFICIT(-)	163	-153
2	JHARKHAND		
i)	NET MAXIMUM DEMAND	1510	830
ii)	NET POWER AVAILABILITY- Own Source	410	175
iii)	Central Sector+Bi-Lateral+IPP	1040	475
iv)	SURPLUS(+)/DEFICIT(-)	-60	-180
3	DVC		
i)	NET MAXIMUM DEMAND	3000	1915
ii)	NET POWER AVAILABILITY- Own Source	5600	2752
iii)	Central Sector+MPL	340	263
iv)	Bi- lateral export by DVC	2500	1188
v)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	420	-88
4	ODISHA		
i)	NET MAXIMUM DEMAND	4100	2340
ii)	NET POWER AVAILABILITY- Own Source	3569	1613
iii)	Central Sector	997	718
iv)	SURPLUS(+)/DEFICIT(-)	466	-9
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAXIMUM DEMAND	4600	2750
ii)	IPCL DEMAND	110	58
iii)	TOTAL WBSEDCL's Energy Requirement (incl.B'Desh+Sikkim+IPCL)	4710	2815
iv)	NET POWER AVAILABILITY- Own Source	4503	1625
v)	Contribution from DPL	407	190
vi)	Central Sector+Bi-lateral+IPP&CPP+TLDP	2281	1298
vii)	EXPORT (TO B'DESH & SIKKIM)	0	7
viii)	SURPLUS(+)/DEFICIT(-) AFTER EXPORT	2481	298
5.2	CESC		
i)	NET MAXIMUM DEMAND	1450	790
ii)	NET POWER AVAILABILITY- Own Source	450	393
iii)	FROM OTHER SOURCE (INCL. IPP/CPP-29-30 MU/M)	460	88
iv)	IMPORT FROM HEL	540	309
v)	TOTAL AVAILABILITY OF CESC	1450	970
vi)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAXIMUM DEMAND	7996	3598
ii)	NET POWER AVAILABILITY- Own Source	5613	2208
iii)	CS SHARE+BILATERAL+IPP/CPP+TLDP+HEL	3543	1695
iv)	SURPLUS(+)/DEFICIT(-) BEFORE WBSEDCL'S EXP.	1161	305
v)	SURPLUS(+)/DEFICIT(-) AFTER WBSEDCL'S EXP.	1151	298
7	SIKKIM		
i)	NET MAXIMUM DEMAND	128	62
ii)	NET POWER AVAILABILITY- Own Source	4	1
iii)	- Central Sector	176	71
iii)	SURPLUS(+)/DEFICIT(-)	52	10
8	EASTERN REGION		
i)	NET MAXIMUM DEMAND	21111	11295
ii)	BILATERAL EXPORT BY DVC	2450	1188
iii)	EXPORT BY WBSEDCL	0	7
iv)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING CS ALLOCATION +BILATERAL+IPP/CPP+HEL)	26998	12367
v)	ENERGY SURPLUS(+)/DEFICIT(-) OF ER AFTER EXPORT (v = iv - i - ii - iii)	3437	-122