

Minutes of 146thOCC Meeting

Date: 03.07.2018

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

Eastern Regional Power Committee

Minutes of 146th OCC Meeting held on 15th June, 2018 at ERPC, Kolkata

List of participants is at Annexure-A.

Member Secretary, ERPC chaired the meeting. He welcomed all the participants to the meeting. He informed that MoP vide letter No. 23/70/2017-R&R dated 05.04.2018 published a detailed mechanism of allowing Flexibility in Generation and Scheduling of Thermal Power Stations to reduce emissions. Subsequently CEA vide its letter No. 7/X/VIP/GM/2018/923-27 dated 12.06.2018 requested all RPCs to make necessary changes in Energy Accounting to implement the above mentioned mechanism.

Details were circulated in the meeting and also enclosed at **Annexure-AA**.

Item no. 1: Confirmation of minutes of 145thOCC meeting of ERPC held on 21.05.2018

The minutes of 145thOCC meeting were uploaded in ERPC website and circulated vide letter dated 05.06.2018to all the constituents.

Members may confirm the minutes.

Deliberation in the meeting

Bhutan requested for the addendum under "Item no. C22 (5&6)". On deliberation, OCC agreed to include the views of Bhutan as follows:

"DGPC representative informed that error in the energy meters of above feeders at Birpara and Siliguri end is persisting for the month of April 2018 also, and requested PTC/POWERGRID to test their energy meter at the earliest. DGPC also informed that the energy meters of DGPC are already tested during January 2018.

POWERGRID suggested to monitor the performance of energy meters for the month of May 2018 and if the error persists greater than the permissible limits, then POWERGRID shall take up for necessary testing of the energy meters."

Members confirmed the minutes of 145th OCC meeting with above addendum.

PART A: ER GRID PERFORMANCE

Item no. A1: ER Grid performance during May, 2018

The average consumption of Eastern Region for May - 2018 was 422.7 Mu. Eastern Region achieved maximum energy consumption of 462 Mu on 30th May - 2018. Total Export schedule of Eastern region for May - 2018 was 2065 Mu, whereas actual export was 1926 Mu.

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

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

The 145th OCC advised all the generators to ensure proper RGMO response of their units and submit the relevant data to ERLDC within seven days before the OCC, however, till date none of the generating stations/utility has submitted high resolution (1sec) data for the incidences discussed in last OCC. Further it was decided that power plant/Utilities will also present governor response as observed in their local station DCS/SCADA. Generating station/ utility may present for the following events:

- 1. On 23.04.2018 at 10:42 Hrs, Multiple tripping from Kotra PG due to DC earth fault reported in 765kV Kotra S/S, consequently Generation loss of 3090MW occurred. Leading to 0.3 Hz dip in frequency.
- On 06.05.2018 at 16:51 Hrs, there was generation loss of 1100 MW on account of tripping of Lalitpur Unit-I ,II & III due to loss of evacuation path. Resulting in 0.055 Hz dip in frequency
- 3. On 10.05.2018 at 06:12 Hrs, there was generation loss of 900 MW on account of tripping of DSTPS unit I & II due to loss of evacuation path. Resulting in 0.054 Hz dip in frequency

Utilities/Generating plants may present

As per recent communication received from TUL they have informed that their units are capable in running in RGMO mode. However, at present automatic governor action is disabled at Teesta-III to avoid overloading of 400 kV Rangpo-Binaguri D/C in event of increase in generation on account of dip in frequency.

Vide email dated 31st May 2018 TUL seeks permission to run their units on RGMO mode one by one.

Members may discuss.

Deliberation in the meeting

ERLDC presented the performance of the Eastern Region grid during May 2018. Presentation is enclosed at **Annexure- A1**.

ERLDC informed that Odisha, West Bengal and DVC had overdrawn from the Grid for significant times during May, 2018.

OCC advised Odisha, West Bengal and DVC to plan their generation to balance the load by maximizing the availability of their internal generation and arranging procurement of power through STOA/ MTOA/ Power Exchange.

ERLDC added that Teesta-III, Dikchu and Chuzachen were not following the schedule and injecting more power to the grid.

OCC opined that the schedule could be revised, if any additional margin is available for evacuation of the generation. OCC advised the above generators to strictly follow the schedule.

Regarding RGMO/FGMO, ERLDC informed that they have received data from West Bengal, Barh & Talcher station. They informed that West Bengal has submitted summarized data but not the unit wise data.

OCC once again requested to submit one-second high-resolution data from generating units for the above-mentioned event within 7 days.

OCC advised ERLDC to analyse the response after getting all the data and place a report in upcoming TCC meeting scheduled to be held on 29th June,2018.

ERLDC informed that there is no significant improvement was observed in injection pattern of Bhutan hydro power.

In response to TUL's letter on FGMO operation, ERLDC informed that the Keeping the grid security as utmost priority, FGMO cannot be allowed in high hydro condition.

ERLDC added that reactive power performance of the generators is satisfactory.

7. Low voltage at 400/220 kV Jeerat, Subhashgram, Pandiaballi and Mendhasal Substation

The issue of low voltage at 400/220 kV Jeerat, Subhashgram, Mendhasal and Pandiabalisubstations have been observed in the eastern region on a day-to-day basis. It has been observed that the voltages of 400kV, as well as 220 kV, are simultaneously low at these substations. Further, on analyzing the SCADA data for the 400/220 kV ICTs at these stations, it is was found that the VAR flow direction is from high voltage to low voltage indicating reactive power measures required at low voltage level like adequate availability of capacitor bank and their switching coordination. The voltage of 400 and 220 kV along with ICT MVAR flow has been below indicating the low voltage problem where it can be seen that it is also going below IEGC Operational limit on several occasions.

WBSETCL and GRIDCO may explain.

Deliberation in the meeting

WBSETCL informed that they are planning to install 590 MVAR additional capacitor banks in distribution network to improve the voltage. Tendering has been completed. The work would be awarded after approval of high level committee.

OPTCL informed that they are also planning to install capacitor banks in their distribution network.

PART B: ITEMS FOR DISCUSSION

Item No. B.1: Status of projects funded under PSDF schemes

In the PSDF review meeting, it was advised to RPCs to monitor the status of all the projects funded by PSDF. Therefore, constituents are requested to update the status of projects which are being funded by PSDF in the desired format.

A. Projects approved:

| SN | Name of Constituent | Name of Project | Date of approval | Target Date of | PSDF grant | Amount drawn till | Latest status |
|----|------------------------|---|------------------|---|-------------------|----------------------|--|
| | | | from PSDF | Completion | approved (in Rs.) | date (inRs.) | |
| 1 | WBSETCL | Renovation & up-gradation of protection system of 220 kV & 400 kV Substations in W. Bengal | 31-12-14 | April 2018 | 108.6 Cr | 18.26 Cr. | 100 % Supply is Completed 100 % Erection is completed Claim is submitted for releasing of 22.27 Cr., the same is yet to be received. |
| 2 | | Renovation & modernisation of transmission system for relieving congestion in Intra-State Transmission System. | 22-05-17 | 25 months from date of release of 1 st instalment | 70.13 | Nil | Order has been placed for 96.44 Cr. 1 st instalment is yet to be received. |
| 3 | | Installation of switchable reactor at 400kV & shunt capacitors at 33kV | 22-05-17 | 19 months from date of release of 1 st instalment | 43.37 | Nil | Order has been placed for 12.53 Cr. 1 st instalment is yet to be received. |

| 4 | WBPDCL | Implementation of Islanding scheme at Bandel Thermal Power Station | 10.04.17 | March 2018 | 1.39 Cr | | The implementation at Power station would be completed by May 2018. Implementation part at Substation for load segregation would be done by WBSETCL. WBSETCL agreed to send their plan within 7 days. |
|----|-----------|---|-------------------|---|------------------|---|---|
| 5 | | Upgradation of Protection and SAS | | | 23.48 | | Approved byMinistry of Power. Fresh tendering is in progress. |
| 6 | OPTCL | Renovation & Up-gradation of protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies. | 10.05.15 | 30.11.18 | 162.5 Cr. | 37.79 Cr | Total contract awarded for Rs. 51.35 Cr |
| 7 | | Implementation of OPGW based reliable communication at 132kV and above substations | 15.11.201 7 | | 25.61 Cr. | | Agreement signed on 03.01.2018 |
| 8 | OHPC | Renovation and up-gradation of protection and control system of 4 nos.OHPC substations. | | U.Kolab- March 19 Balimela- Feb 2019 U.Indravati- Jan 19 Burla-Nov 2018, Chiplima Dec 2018 | 22.35 Cr. | | Tendering under progress. |
| 9 | | Renovation and up-gradation of 220/132/33 KV GSS Biharshariff, Bodhgaya, Fatuha, Khagaul, Dehri -on-sone& 132/33 kV GSS Kataiya | 11/5/201 | 31.07.2018 | 64.02 crore | 56.04 crore | 85% of work has been completed. Contract awarded for Rs.71.37 Cr till date. |
| 10 | BSPTCL | Installation of capacitor bank at different 35 nos. of GSS under BSPTCL | 5/9/2016 | 12 th March 2019 | 18.88 crore | Nil | Work awarded for all GSS. |
| 11 | | Renovation & up-gradation of protection and control system of 12 nos. 132/33 KV GSS under BSPTCL. | 02.01.17 | 31 st March 2018 | 49.22 Cr. | | 75% work completed for seven no. GSS as part of R & M work. Revised DPR is to be submitted for rest 5 no. GSS. |
| 12 | JUSNL | Renovation and up-gradation of protection system | September 2017 | 2 years | 138.13 crores | | LOA issued to PRDC on 22 nd March 2018 for monitoring the project. Tendering is in progress. |
| 13 | DVC | Renovation and upgradation of control & protection system and replacement of Substation Equipment of 220/132/33 kV Ramgarh Substation | 02.01.17 | 01.06.2019 | 25.96 Cr | 2.596 Crore on 01.06.201 7 | Work awarded for 28.07 Cr. |
| 14 | | Renovation and upgradation of control & protection system including replacement of substation equipment at Parulia, Durgapur, Kalyaneshwari, Jamshedpur, Giridih, Barjora, Burnpur, Dhanbad and Burdwan Substation of DVC | 27.11.17 | 24 Months from the date of release of fund. | 140.5 Cr. | 1st installmen t of 14.05 Cr. received on 21.12.201 | Work awarded for 6.45 Cr. |
| 15 | POWERGRID | Installation of STATCOM in ER | | June 2018 | 160.28 Cr | 16.028 Cr | Work is in progress, expected to complete by June 2018. STATCOM at Rourkela has been commissioned. |
| 16 | ERPC | Creation & Maintenance of web based protection database and desktop based protection calculation tool for Eastern Regional Grid | 17.03.16 | Project is alive from 30 th October 2017 | 20 Cr. | 4.94 Cr. + 9.88 Cr. | Protection Database Project has been declared 'Go live' w.e.f. 31.10.17. Pending training on PDMS at Sikkim and 3rd training on |

| | | | | PSCT has been also completed at ERPC Kolkata. |
|-----|------|--|--|--|
| 17a | ERPC | Training for Power System Engineers | | The proposal was approved by Appraisal Committee. The |
| 17b | | Training on Power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents | | proposal was sent to CERC. CERC has sought some queries from the Appraisal Committee. The matter shall be taken up by the Appraisal Committee during its next meeting. |

B. Projects under process of approval:

| SN | Name of | Name of Project | Date of | Estimated cost | Latest status |
|----|-------------|--|------------|----------------|---|
| | Constituent | | Submission | (in Rs.) | |
| 1 | Sikkim | Renovation & Upgradation of Protection System of Energy and Power Department, Sikkim. | 09-08-17 | 68.95 Cr | Scheme was examined by TSEG. Inputs sought from entity. Sikkim submitted the relevant information. |
| 2 | | Drawing of optical ground wire (OPGW) cables on existing 132kV & 66kV transmission lines and integration of leftover substations with State Load Despatch Centre, Sikkim | 09-08-17 | 25.36 Cr | Scheme was examined by TSEG. Inputs sought from entity. Sikkim submitted the relevant information. |
| 3 | JUSNL | Reliable Communication & Data Acquisition System upto 132kV Substations. | 23-08-17 | 102.31 Cr | Scheme was examined by TSEG. Inputs sought from entity. Scheme has been revised as suggested by TSEG and it would be submitted within a week. |
| 4 | OPTCL | Installation of 125 MVAR Bus Reactor along with construction of associated bay each at 400kV Grid S/S of Mendhasal, Meramundali& New Duburi for VAR control &stabilisation of system voltage | 28-08-17 | 31.94 Cr | Scheme was examined by TSEG. Inputs sought from entity. OPTCL submitted the relevant information. |

C. Projects recently submitted:

| SN | Name of Constituent | Name of Project | Date of Submission | Estimated cost (in Rs.) | Latest status |
|----|------------------------|--|-----------------------|-------------------------|---------------|
| 1 | WBSETCL | Implementation of Integated system for Scheduling, Accounting, Metering and Settlement of Transactions (SAMAST) system in West Bengal | 22-12-17 | 25.96 Cr | |
| 2 | OPTCL | Implementation of Automatic Demand Management System (ADMS) in SLDC, Odisha | 22-12-17 | 3.26 Cr | |
| 3 | OPTCL | Protection upgradation and installation of SAS for seven numbers of 220/132/33kV Grid substations (Balasore, Bidanasi, Budhipadar, Katapalli, Narendrapur, New-Bolangir&Paradeep). | 20.02.2018 | 41.1 Cr. | |

Respective constituents may update the status.

Deliberation in the meeting

MS, ERPC informed that 9th meeting of the PSDF Project Monitoring Group for review of the projects approved under PSDF in Eastern Region was held at Binaguri on 8th June, 2018. The meeting was chaired by Chairperson, CEA. All the states/utilities of the Eastern Region participated in the meeting. The status/progress of all projects of Eastern Region was reviewed in the meeting. The minutes of the meeting are awaited.

Item No. B.2: Low-Frequency Oscillation (LFO) observed At Durgapur and nearby nodes on 05thAPRIL 2018 from 14:21 hrs to 14:28 hrs.

Low-frequency oscillation of 0.1 Hz was observed in Durgapur and nearby nodes on 05th April 2018 from 14:21 hrs to 14:28 hrs. The oscillation was prominent in the Eastern region near Durgapur only based on the synchrophasor data analysis. Plot of Durgapur bus voltage based on PMU data is shown in the figure below where oscillation can be clearly observed. No significant oscillation was recorded by any other PMU during the said period, indicating some nearby local phenomenon or generator hunting. On further analysis of Eastern region SCADA data, large variations in the MW and MVAR of Sagardighi Unit 4 was noticed during the same time period.

In 144th OCC, ERLDC informed that similar incident was occurred earlier on 22nd July 2017 at 22:47 Hrs, Low Frequency Oscillations of frequency 0.083 Hz were observed in Sagardighi Unit 4 and WBPDCL has not submitted any report.

ERLDC added that oscillations in electrical parameters like voltage & frequency would impactnearbygeneratorsby increasing wear and tear. Therefore, ERLDC has requested for following actions:

- WBPDCL shouldsubmit a report.
- All Generating Unitsmust intimate the RLDC/SLDC immediately if any suchhunting/vibration is observed in Units (Cause/Effect).
- All Generating Units must Submit the one second or finer resolution data of MW/MVAr for all units to RLDC/SLDC
- PSS Tuning of all Generating Units above 100 MW must tune their PSS in Compliance to CERC Regulation and CEA grid Standard.

WBPDCL informed that oscillations were observed due to problem in Governor of Sagardhigi unit#4. WBPDCL added that the unit is under shutdown and they are investigating the root cause.

OCC advised WBPDCL to submit a report for both the incidences occurred on 05 April'18 and 22nd July 2017 along with the action taken.

WBPDCL vide letter dated 1stMay2018 informed that unwanted oscillations in Sagardighi unit-4 was observed due to suspected malfunctioning of the governing system of the machine, which in turn oscillated the EHC output. The issue has been brought to the notice of BHEL and WBPDCL maintenance department for immediate rectification of the problem. WBPDCL also informed that during the ongoing shutdown period of U#4 control valve's pilot cleaning, calibration and thorough operation checking w.r.t EHC output will be done to identify and resolve the issue.

In 145th OCC, WBDPCL informed that OEM would visit the site within 2 days to resolve the issue.

OCC advised WBPDCL to submit the outcome to ERPC and ERLDC.

WBPDCL may update.

Deliberation in the meeting

WBPDCL informed that BHEL engineers had visited the site and attributed turbine vibration as the reason for low frequency oscillation. The necessary work for corrective measures is in progress. They will submit the detailed report after completion of the work.

1. Islanding scheme at Bandel TPS-WBPDCL

In 145th OCC, WBPDCL informed that the implementation at Power station would be completed by May 2018. Implementation part at Substation for load segregation would be done by WBSETCL.

WBSETCL agreed to send their plan within 7 days.

WBPDCL and WBSETCL may update.

Deliberation in the meeting

WBPDCL and WBSETCL informed that the work would be completed by end of July, 2018.

2. Islanding scheme at IbTPS- OPGC

OPTCL has submitted the detail plan of lbTPS islanding scheme. Details are enclosed at Annexure-B3.1.

Members may discuss.

Deliberation in the meeting

MS, ERPC informed that the islanding scheme will be discussed in 64th PCC meeting scheduled to be held on 18.06.2018.

3. Islanding scheme at KantiTPS - KBUNL

ERLDC prepared thedraft islanding scheme. Details are enclosed at **Annexure-B3.2**.

Members may discuss.

Deliberation in the meeting

MS, ERPC informed that the islanding scheme will be discussed in 64th PCC meeting scheduled to be held on 18.06.2018.

Item No. B.4: Automatic Under Frequency Load Shedding (AUFLS) -NPC

In 2^{nd} NPC meeting held on 16^{th} July 2013 it was decided to implement the following load shedding scheme:

| AUFLS | Frequency | Load relief in MW | | | | | | |
|-------------------|------------|-------------------|------|------|------|-----|-------|--|
| 7. E. C. A. 14.15 | (Hz) | NR | WR | SR | ER | NER | Total | |
| Stage-I | 49.2 | 2160 | 2060 | 2350 | 820 | 100 | 7490 | |
| Stage-II | 49.0 | 2170 | 2070 | 2360 | 830 | 100 | 7530 | |
| Stage-III | 48.8 | 2190 | 2080 | 2390 | 830 | 100 | 7590 | |
| Stage-IV | 48.6 | 2200 | 2100 | 2400 | 840 | 100 | 7640 | |
| - 12 | Total (MW) | 8720 | 8310 | 9500 | 3320 | 400 | 30250 | |

In 7th NPC held on 7th September 2017, it was agreed that there is need for review of the quantum of load shedding and introduction of additional slabs/stages of frequency.

NPC vide letter dated 30th May 2018 informed that considering the grid size and assuming Power Number of 7000, the following two options are proposed:

Option 1:

AUFLS scheme with 4 stages of frequency viz. 49.2, 49.0, 48.8 & 48.6 Hz

| 4 F1894 O | Frequency | Lond relief in MW | | | | | | |
|-----------|------------|-------------------|-------|-------|------|------|-------|--|
| AUFLS | (Hz) | NR | WR | SR | ER | NER | Total | |
| Stage-I | 49.2 | 3920 | 3360 | 3170 | 1380 | 170 | 12000 | |
| Stage-II | 49.0 | 3950 | 3380 | 3190 | 1380 | 170 | 12070 | |
| Stage-III | 48.8 | 3970 | 3400 | 3210 | 1390 | 1.70 | 12140 | |
| Stage-IV | 48.6 | 4000 | 3430 | 3230 | 1400 | 170 | 12230 | |
| - | Total (MW) | 15840 | 13570 | 12800 | 5550 | 680 | 48440 | |

Option 2:

AUFLS scheme with 4 stages of frequency viz. 49.4, 49.2, 49.0 & 48.8 Hz

| AUFLS | Frequency | Load relief in MW | | | | | | |
|-----------|------------|-------------------|-------|-------|------|------|-------|--|
| | (Hz) | NR | WR | SR | ER | NER | Total | |
| Stage-1 | 49,4 | 3900 | 3340 | 3150 | 1370 | 170 | 11930 | |
| Stage-II | 49.2 | 3920 | 3360 | 3170 | 1380 | 170 | 12000 | |
| Stage-III | 49.0 | 3950 | 3380 | 3190 | 1380 | 170. | 12070 | |
| Stage-IV | 48.8 | 3970 | 3400 | 3210 | 1390 | 170 | 12140 | |
| | Total (MW) | 15740 | 13480 | 12720 | 5520 | 680 | 48140 | |

NPC sought the views of RPCs on the review of quantum of load shedding and stages of frequency.

Members may discuss.

Deliberation in the meeting

Constituents agreed to examine both the options and send their feedback/comments to ERPC secretariat within ten days.

Item No. B.5: Frequentpower supply interruptions at various Railway traction sub stations under JUSNL. –South Eastern Railway

South Eastern Railway informed that there have been repeated simultaneous power supply failures at 04 nos traction sub stations(RajkharswanChakradharpur, Goilkera and Kendposi) for which train services have beenseriously disrupted. At present supply of these 4 TSSs is coming through Chandil/Grid,hence failure of ChandilGrid and its transmission line affects the power supply of all thefour Railway TSS.

One 132KV D/C transmission line has been recently commissioned by JUSNL from Chaibasa to Manoharpur. Hence, to improve reliability of power supply, it is proposed togive traction power supply in normal course at the 4nos Railway TSSs from Manoharpurto Goilkera and further to Rajkbarswan Chakradharpur, and Kendposi TSSs. Chandilsupply may be kept as alternate source of supply.

South Eastern Railway may explain. JUSNL may respond.

Deliberation in the meeting

The agenda could not be discussed in detail as the Railway representative was not present in the meeting.

However, JUSNL informed that there were some issues with respect to implementation of the above proposal and it would take some time for implementation.

Item No. B.6: Restoration of 132 kV Sonenagar (BSPTCL) – Rihand(UPPCL) inter regional link

LILO of 132 KV Sonenagar(BSPTCL) – Rihand(UPPCL) was done at NPGC on 16/05/2017 to provide start up power from STU side to NPGC (Nabinagar Power Generating Co. Ltd.). NPGC was availing start up power through 132 kV Sonenagar – Nabinagar (NPGC) and 132 kV Nabinagar(NPGC) – Rihand was kept anti-theft charge till Rihand S/S from Nabinagar end. Subsequently after commissioning of 400 kV Gaya - Nabinagar(NPGC), associated 400kV Bus, Bays and Station transformer(400/132 kV) at Nabingar(NPGC) followed by submission of documentations as per relevant procedure in respect to drawl of startup power from CTU side through 400 kV Gaya - Nabinagar(NPGC), ERLDC has allowed NPGC (Nabinagar Power Generating Co. Ltd.) to draw startup power of 55 MW subject disconnection of startup power supply from STU side through 132 kV Sonenagar – Nabinagar(NPGC). 132 KV Nabinagar(NPGC)-Sonenagar line at NPGC end was opened on 10/05/2018 at 13:41 hours. NPGC connected to ISTS through 400 kV Gaya – Nabinagar(NPGC) at 14:30 Hrs of 10/05/2018 and started drawing startup power in the tune of 5 to 10 Mva.

As per the procedure, start-up power cannot be facilitated to any generator from two sources. As NPGC availed start-up power from Gaya (CTU) SS side, so 132kV arrangement from STU (BSPTCL) through 132 kV Nabinagar(NPGC)-Sonenagar LILO need to be disconnected permanently and 132kV Rihand - Sonenagar inter-regional tie-line to be restored back to its original configuration.

BSPTCL may update status of restoration of 132 kV Sonenagar (BSPTCL) – Rihand(UPPCL) inter regional link.

Deliberation in the meeting

BSPTCL informed that the shutdown was taken from 15th June, 2018 to 27th June, 2018 and the line would be restored by end of June 2018.

OCC advised BSPTCL to review the protection settings as per the new configuration in coordination with Rihand end.

Item No. B.7: Installation of PMU for observation of the dynamic performance of STATCOMs--ERLDC

Four STATCOMs (Rourkela, Jeypore, Kishenganj, New Ranchi) are being commissioned in the Eastern Region to improve the dynamic var compensation in the grid and for the improvement of the transient stability. STATCOM is a dynamic VAR compensation device and provides the fast reactive support to the grid during transient as well steady state operation. The steady-state response of STATCOM can be monitored through conventional SCADA data, however; the dynamic response, which comes within milliseconds, cannot be well captured through conventional SCADA system. In order to analyze the dynamic performance of STATCOM (STATCOM+ MSR /MSC) during day-to-day operation, it is desired to install PMU on the Coupling Transformer of the STATCOM as a part of the URTDSM project. This will help the operator in monitoring and analyze the STATCOM dynamic response in real time as well as offline mode.

Based on the above for better monitoring of the STATCOM devices, Powergrid may be advised for installation of PMU at all the four STATCOMs of Eastern region.

Members may discuss.

Deliberation in the meeting

ERLDC informed that as the STATCOMs are dynamic compensation devices, PMUs are required to be installed for availing synchronized data. The data will help in analyzing the dynamic response of the STATCOMs during day-to-day operation.

OCC recommended to install PMUs on the Coupling Transformer of the four STATCOMs as a part of the URTDSM project.

Powergrid informed that the proposal for installation of PMUs in above substations were not covered in original URTDSM project. They had taken up the matter with their Engineering Wing.

OCC referred to TCC for approval for installation of PMUs on the Coupling Transformer of the four STATCOMs are being in commissioning stage, as a part of the URTDSM project.

Item No. B.8: Expeditious commissioning of 400kV FSTPS – Baharampur (Twin HTLS) D/C line--ERLDC

The above line is part of ERSS-XV project and linked with transfer of 1000MW power from India to Bangladesh. In the 7th OCC meeting with Bangladesh held on 04-06-18, it was learnt that commissioning of the 2nd 500MW B-t-B HVDC converter station at Bheramara is in an advanced stage and by July 2018 Bangladesh would be ready to import 1000MW from India through the existing 400kV Baharampur-Bheramara 400kV D/C line, with suitable modification of their own defense mechanism.

Under the circumstances to meet the expectations of Bangladesh, it is absolutely essential to commission the 400kV FSTPS-Baharampur (Twin HTLS) D/C line under construction, at the earliest. As this activity involves shutdown of the existing 400kV FSTPS-Baharampur (Twin Moose) S/C line, WBSETCL is requested to extend necessary cooperation for facilitating timely completion of the Twin HTLS line, under construction.

Members may discuss.

Deliberation in the meeting

Powergrid elaborated their detailed plan of interim arrangement during the commissioning work of above lines. The presentation is enclosed at **Annexure-B8**. They informed that, keeping in view the grid security and West Bengal demand, they had fine-tuned their plan so as to minimize the period of interim arrangement with reduced grid security to 10 days.

WBSETCL informed that, based on the study undertaken by them, any outage of the lines in the interim arrangement during shutdown would likely to overload their ICTs which, in turn, would necessitate huge load curtailment.

OCC advised WBSETCL that, as the proposed line has significant importance in view of enhancing the power transfer capability to Bangladesh, it should facilitate the shutdown so as to complete the work in timely manner.

WBSETCL informed that they would discuss the issue with their management and revert back within a week.

Item No. B.9: Discrepancy in meter reading of reactive power –WBSETCL

WBSETCL informed that they observed large variation in meter reading of reactive power injection between the following parallel tie lines for the week:16.04.18-22.04.18:

- i) 400kvBidhanNagar(WB)-Parulia(PG):Line#1 shares 3.47 times of line#2
- ii) 400kvSgTPP(WB)-Parulia(PG):Line#2 shares1.6 times of line#1
- iii) 400kvHEL(WB)-Subhasgram(PG): Line#2 shares1.37 times of line#1
- iv) 220kvNJP(WB)-Binaguri(PG):Line#2shares1.18 times of line#l.

This pattern of discrepancies was observed in each weekly VAR Account of ERPC.

Members may discuss.

Deliberation in the meeting

OCC decided to constitute a Committee with representatives from ERPC, ERLDC, WBSETCL and Powergrid to look into the issue.

OCC agreed to compensate WBSETCL in case of the discrepancy is justified.

OCC opined that VAR compensation in West Bengal system is very much required and advised WBSETCL to plan for installation of capacitor banks at appropriate places.

WBSETCL informed that they have planned for installation of capacitor banks having total capacity of 590 MVAR. The project has been awarded through PSDF fund.

Item No. B.10: Audit of devices such as HVDC, TCSC and SVC and PSS Tuning

An audit of devices such as HVDC, TCSC, SVC and PSS should be done immediately to ensure that their stability features are enabled. Further, exercise of PSS tuning should be planned and implemented. Settings of these dynamic stabilizing devices should be reviewed at appropriate intervals.

In 2007 Based on a system study (Prof. Kulkarni) were proposed the following units to be equipped with PSS devices:

- 1. Kolaghat stage II 400 kV U#4.5.6.(201MW each)of WBPDCL;
- 2. Farakka U#4,5 (500MW each)of NTPC;
- 3. U.Kolab 4 units (80 MW each) of OHPC:
- 4. Budge Budge U# 1,2,(250 MW) of CESC Ltd.

Thereafter, PSS tuning of all units were carried out with the help of BHEL Service Manager, Shri K. ParthaSarathi in the presence of Prof. Kulkarni except Budge Budge units.PSS tuning of Budge-Budge unit 1&2 of CESC has been carried out on 28th&29th July, 2015.

142ndOCC opined that for identifying the generators for PSS tuning, a fresh study is needed to be done as per the existing network. OCC referred to TCC for further guidance.

Powergrid informed that they are planning to conduct audit for HVDC, TCSC and SVC in April 2018.

In 37th TCC, Members authorised Member Secretary, ERPC to contact different IITs including IISc for the study and advised to place a comprehensive proposal in next TCC Meeting.

In 143rd OCC, Powergrid informed that audit for TCSC Purnea, FSC Ranchi and HVDC Talcherhad been completed and the same for HVDC Alipurduar is planned in April 2018.

Powergrid submitted the audit report of TCSC and FSC installed in 400kV Muzaffarpur lines at Purnea.

Members may update.

Deliberation in the meeting

OCC advised Powergrid to submit the audit reports of other stations in ER.

Item No. B.11: Non-submission of Meter data by M/s Ind-Barath (IBEUL)-ERLDC

Six (6) nos of SEM are installed at Ind-Bharath end for energy accounting of IBEUL. As per IEGC, every Utility has to send SEM data to respective RLDC by Tuesday noon in every week. IBEUL is not sending the SEM data since April'17. Due to non-receipt of data, validation of data of other end i.e. Sundergarhis being affected. Several reminders through mail and phone were sent to the representatives of IBEUL but till date no data is received.

In 145thOCC, it was decided to convene a separate meeting with IBEUL to resolve the issues.

Accordingly, a special meeting was convened at ERPC, Kolkata on 01.06.2018 wherein IBEUL representative did not attend the meeting.

Members may note.

Deliberation in the meeting

IBEUL representative was not present in the meeting.

OCC noted that IBEUL is not adhering to the decisions of any forum of ERPC and not clearing the outstanding dues of various pool accounts of Eastern Region. Further, OCC recommends that suitable actions including de-registering IBEUL as Regional Entity might be explored.

Item No. B.12: DATA FOR GEOSPATIAL ENERGY PORTAL OF NEETI AAYOG--CEA

NITI Aayog is developing a user friendly GIS based Energy Map of India, which would provide true locations of all energy resources in India including power plants, coal and oil reserves, transmission lines etc.

CEA sought the information of name, voltage level, capacity, longitude and latitude of 33kV and 66 kV substations and lines.

The information may be shared with CEA vide email: cedpd-cea@gov.in.

Members may note and comply.

Deliberation in the meeting

West Bengal informed that they had sent the requisite information to CEA.

OCC advised all other constituents to comply.

PART C: ITEMS FOR UPDATE

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

UFR Healthiness Certification for the month of May, 2018 has been received from CESC, WBSETCL, DVC and JUSNL.

BSPTCL and OPTCL may submit.

Deliberation in the meeting

BSPTCL and OPTCL have submitted the UFRs healthiness certificate.

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

At present, the following islanding schemes are in service:

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

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

In 134thOCC, JUSNL was advised to submit the healthiness certificate of the UFR and PLCC system related to Farakka islanding scheme at their end.

The healthiness certificate for Islanding Scheme for May, 2018 has been received from CTPS, DVC, West Bengal, JUSNL and CESC.

NTPC and WBPDCL may submit.

Deliberation in the meeting

NTPC and WBPDCL have submitted the healthiness certificate for the month of May, 2018.

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

The Status of healthiness certificate for May, 2018 is given below:

| SI. No. | Name of the SPS | Healthiness certificate received from | Healthiness certificate not received from |
|------------|---|---------------------------------------|---|
| 1. | Talcher HVDC | GMR, NTPC, Powergrid & JITPL | Nil |
| 2. | Rangpo | Chuzachen & Powergrid | Dikchu, Teesta-III, Dansenergy |
| 3. | SPS of 132 kV Muzaffarpur- Dhalkebar D/C | Nil | Powergrid |
| 4. | SPS in CESC system | CESC | Nil |
| 5. | SPS for Power Export to Bangladesh | Nil | Powergrid |
| 6. | SPS at Chuzachen | Chuzachen | Nil |

In 145th OCC,ERLDC informed that generation relief provided by the generators was not sufficient during SPS Operation on HVDC Talcher-Kolar Pole 1 tripping on 16-05-2018 15:34 Hrs. ERLDC elaborated the event with detailed presentation.

OCC advised Powergrid to submit a report on frequent tripping of only pole 1.

OCC opined that a Committee was already formed to study the SPS issues related to HVDC Talcher-Kolar. OCC advised the Committee to analyze this event and place the report in OCC Meeting.

Members may update.

Deliberation in the meeting

Powergrid informed that Rangpo SPS has been tested on 13th June 2018.

Powergrid informed that Time synchronization of the respective panels at Dikchu, Jorthang and Tashinding is not proper.

OCC advised Dikchu and Dansenegy to check the time synchronization at their end.

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

The latest status along with proposed logic as follows:

| SI N | State/Utilit y | Logic for ADMS operation | Implementation status/target | Proposed logic (if different from under implementation logic) |
|---------|-------------------|---|---|--|
| 0 | У | operation | Status/target | under implementation logic) |
| 1 | West Bengal | F <49.7 AND deviation > 12 % or 150 MW | Implemented on 25.11.16 | F <49.9 AND deviation > 12 % or 150 MW |
| 2 | DVC | F <49.7 AND deviation > 12 % or 150 MW | Implemented on 17.06.2016 | |
| 3 | Bihar | F <49.7 AND deviation > 12 % or 150 MW | 3 months Feeders identified. Implemented by June 2018 | F <49.9 AND deviation > 12 % or 150 MW |
| 4 | Jharkhand | 1. System Frequency < 49.9 Hz AND deviation > 12 % or 25 MW 2. System Frequency < 49.9 Hz AND deviation > 12 % or 50 MW 3. System Frequency < 49.9 Hz AND deviation > 12 % or 75 MW | 9 Months Tendering for RTU installation is in progress. Implemented by May 2018 | Condition 1: Block I feeders will be selected for load shedding Condition 2: Block I & II feeders will be selected for load shedding Condition 3: Block I, II & III feeders will be selected for load shedding |
| 5 | Odisha | System Frequency 49.9 Hz Odisha over-drawl > 150 MW DISCOM over-drawl (40 MW) | 10 Months Sent for PSDF approval. | Logic 2 and 3 is AND or OR, in case it is AND then ADMS may not operated when discom are in schedule but GRIDCO is overdrawing due to less generation at state embedded generators |
| 6. | Sikkim | | | Sikkim informed that they have submitted a proposal to PSDF Committee for installation of OPGW cables which is under approval stage. Sikkim added that ADMS |

| | scheme would be implemented after |
|--|-----------------------------------|
| | installation of OPGW. |

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

ERLDC informed that in the month of May 2018 frequency dipped below 49.7 Hz on few occasions. Further as per information submitted ADMS facility is already in service in West Bengal and DVC from 25th -November-2016 and 17th June 2016 respectively. Instances which are satisfying logic for ADMS operation are enclosed at **Annexure-C4**. The data is 2 minutes average value as available in ERLDC SCADA. It is not clear from the actual drawl data, whether ADMS has been operated or not. DVC and West Bengal were also not reported any such operation to ERLDC for above instances.

Members may update. WBSETCL and DVC may explain.

Deliberation in the meeting

ERLDC gave a presentation highlighting the cases where ADMS suppose to operate. Presentation is enclosed at Annexure-C4.1.

ERLDC informed that around 200 MW load rejection was obtained in DVC system and no load rejection was obtained in West Bengal system.

West Bengal informed that ADMS was not operated due to wrong settings.

OCC advised West Bengal to rectify the settings and submit a report to ERLDC.

Item no. C.5: Unreliable operation at Motihari (DMTCL) SS

400/132kV Motihari S/Stn is of critical importance as the two high capacity inter-regional lines (400kVBarh-Gorakhpur Qd. Moose D/C) link E. Region with N. Region at this S/Stn. The Barh-Motihari D/C Qd. Moose line is essential for reliable power evacuation from Barh STPS of 2X660MW capacity. Motihari S/Stn is also responsible for meeting about 200MW load, considering Bihar and Nepal together.

As on date main CB of 125MVAR bus reactor-1, line isolator of 400kV Gorakhpur-2 line along with main and tie CBs of this line are out of service due to problem in gas duct. 400 kV Motihari – Gorakhpur – II was out of service due to unavailability of both bays at Motihari S/S.

In 144th OCC, it was decided to pursue the issue with DMTCL and decided to discuss the issue in 66th PCC Meeting scheduled to be held on 25th April 2018.

In 145th OCC, DMTCL informed that 400kV Motihar-Gorakhpur D/C line is under outage due to non-availability of GIS spares.

DMTCL added that the line would be restored within a month.

OCC advised DMTCL to expedite the work to restore the line at the earliest.

Members may discuss.

Deliberation in the meeting

DMTCL representative informed that the line will be restored by 20th July, 2018.

Item no. C.6: Restoration of 400kV MPL-Maithon D/c lines

At around 5:21 hrs on 10th May 2018, both 400kV MPL-Maithon line-1 and 2 tripped on line to earth and phase to phase fault. Later upon physical inspection from MPL end, it was found that 3 towers namely 63, 64 and 65 have collapsed at 2 kms from MPL periphery. Being a double circuit tower both Maithon-1 and 2 are not available henceforth.

MPL requested to take urgent action for restoration of MPL-Ranchi line-1 on high priority and confirm the tentative time of line restoration.

In 145th OCC, Powergrid informed that restoration of 400kV MPL-MRBL line-1 and 2 using ERS towers is not possible as the damaged tower was at river crossing and the line would be restored only by 15th July 2018.

MPL and Powergrid may update.

Deliberation in the meeting

Powergrid informed that the line will be restored by 15th July, 2018.

Item no. C.7: LILO arrangement at 132/33 KV GSS Baisi in 132 KV Kishanganj(old)-Dalkola(WBESTCL)

BSPTCL vide mail dated 13th April 2018 informed that 132/33 KV GSS Baisi is being constructed by M/S GE T&D India Ltd. under state plan which is ready for charging through 132 KV Kishanganj(old) – Dalkola(WBESTCL) transmission line (which is ISTS line) through LILO arrangement.

- i. Erection and commissioning of Remote Terminal Unit (RTU) is being under progress.
- ii. Shifting of ABT meter installed at Kishanganj (old) end in Dalkola feeder to Baisi end of Dalkola feeder also under process.

BSPTCL requested for charging of 132/33 KV Baisi GSS through LILO in 132 KV Kishanganj(old) – Dalkola(WBESTCL) transmission line.

In 144th OCC, BSPTCL informed that the construction of 132/33 KV GSS Baisi S/s is almost at completion stage. They are planning to LILO 132 KV Kishanganj(old) – Dalkola(WBESTCL) transmission line at 132/33 KV GSS Baisi S/s. After LILO, 132kV Baisi – Dalkola(WBESTCL) would become an interstate tie line.

In 145th OCC, BSPTCL informed that 132 KV Kishanganj(old) – Dalkola(WBESTCL) transmission line LILO at 132/33 KV GSS Baisi S/s on 1st May 2018. SEMs were shifted from Kishanganj and installed at Baisi S/s.

BSPTCL may update.

Deliberation in the meeting

BSPTCL informed that 132kV Baisi-Dalkhola line was charged on 22nd May, 2018.

Item no. C.8: Flexible jumpering arrangement for bypassing substations, prone to inundation during monsoon, for ensuring continuity of important corridors and power evacuation from power stations—ERLDC

In 136th OCC, ERLDC explained that the flexible jumpering arrangement may be done for 400 kV Binaguri-Kisheenganj-N.Purnea D/C and 400kV Binaguri-Alipurduar-Bongaigaon D/C lines for bypassing the LILO points i.e. 400kV Kishanganj(PG) and Alipurduar(PG) S/s so that the same lines may be directly connected during the emergencies like flood situations at LILO points. The possibility may be explored as these elements are very important in terms of hydro power Minutes of 146thOCC Meeting

Page 16

evacuation and long outages of these elements may endanger the grid security. The other such elements (LILOed at Dalkhola, Motihari (DMTCL) etc) may also be explored which are under threat during flood and other emergencies.

In 145th OCC, Powergrid informed that the necessary jumpering arrangement at Alipurduar, Kishanganj and Dalkhola SS would be completed by June 2018.

PGCIL may update. DMTCL may update the actions taken for Motihari S/S.

Deliberation in the meeting

Powergrid informed that the jumpering arrangement was completed at 400 kV Kishanganj S/s. Powergrid added that they need shutdown for jumpering arrangement at Alipuarduar.

Item no. C.9: Repeated tripping of 220kV Chuka-Birpara D/c line

In 60th PCC, meeting Powergridexplained that the line is in lightning prone area. The line is getting tripped due to Insulator failures. Powergrid added that line insulators of part of the line which is belongs to Powergrid have been replaced with polymer insulators. The insulator failures during lightning have been reduced. However, the line is getting tripped due to failure of porcelain insulators in 39.8 km stretch which is belongs to Bhutan.

BPC vide mail submitted the details of replacement of porcelain insulators with glass insulators in the 220kV Chhukha-Birpara D/C line (Bhutan section). Out of 97 towers, porcelain insulators have been completely replaced with glass insulators in 31 locations, while at 20 locations only some insulator strings have been replaced. The remaining insulators would be replaced in a phase wise manner during preventive and break down maintenance.

BPC/DGPC and POWERGRID may update.

Deliberation in the meeting

In 146th OCC, it was informed that recently three incidences were reported where the tripping was due to faults in the line, which is under the jurisdiction of Bhutan.

OCC advised Bhutan to submit a comprehensive plan to minimise the tripping in the line.

Item no. C.10: Repair/Rectification of tower at location 79 of 132kV Rangpo-Melli D/c line and Chuzachen(Rangpo)-Gangtok transmission lines - Powergrid

Powergrid informed that their patrolling team has observed bent in part of tower no. 79 of 132kV Rangpo-Melli D/c line and Chuzachen(Rangpo)-Gangtok transmission lines which may further degrade the condition of tower.

In 141st OCC, Sikkim informed that rectification of the tower has been taken up with Gati. The work would be completed by 2nd week of February 2018.

In 37th TCC, it was decided that Sikkim would give a comprehensive proposal to PGCIL within one week regarding handing over of the relevant segments of the line to PGCIL. Thereafter, PGCIL and Sikkim would sit together and sort out the issues involved therein.

In 145th OCC, Sikkim informed that the proposal had been sent to State Govt. for approval.

Powergrid and Sikkim may update.

Deliberation in the meeting

Sikkim informed that State Govt. for approval is pending.

OCC took serious note of delay in tower rectification and referred to TCC for further guidance.

Item no. C.11: Status of Installation of STATCOM in Eastern Region

In the 15th meeting of SCM it was agreed to install STATCOM in combination with mechanically switched Reactors (MSR) and Capacitors (MSC) and co-ordinated control mechanism of MSCs and MSRs at Ranchi, Rourkela, Jeypore and Kishanganj substations in Eastern Region.

The matter was again discussed in the 28th ERPC/TCC meeting held on 12th -13th September, 2014 at Goa, wherein, it was decided that POWERGRID may go ahead with implementation of the STATCOM project in Eastern Region with debt – equity ratio of 70:30 funding. The debt part should be refunded through PSDF and Equity Component (30%) to be funded by POWERGRID to be recovered through regulated tariff mechanism. CTU should initiate the process of availing fund from PSDF.

Powergrid updated the latest status as follows:

| SI No | Location /Sub- Station of POWERGRID | STATCOM - Dynamic Shunt Controller | Mechanicall Compens (MV | ation SI. | Latest status |
|----------|---|--|-------------------------------|------------------|--|
| NO | in ER | (MVAr) | Reactor (MSR) | Capacito r (MSC) | |
| 1 | Rourkela | ±300 | 2x125 | | In service from March 2018. |
| 2 | Kishanganj | ±200 | 2x125 | | 70% civil work completed. 30% switchyard equipment supplied. Expected to complete by December 2018 |
| 3 | Ranchi(New) | ±300 | 2x125 | | 80% civil work completed. All switchyard equipment, reactors and 3 transformers supplied. Expected to complete by June 2018 |
| 4 | Jeypore | ±200 | 2x125 | 2x125 | Testing completed. Trail operation by June 2018 |

Powergrid may update.

Deliberation in the meeting

Powergrid updated the latest status as mentioned in above table.

Item no. C.12: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar&Pandiabil S/s

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

In lastOCC, OPTCL updated the completion schedule of inter-connecting system as follows:

| SI. No. | Name of the transmission line | Completion schedule | |
|---------|--|---|--|
| 1. | 2x315MVA 400/220kV Bolangir S/s | | |
| a. | LILO of one circuit of Sadeipalli-Kesinga220 kV D/C line at Bolangir S/S | Only 7 towers left (Severe ROW problem). By June, 2018. | |
| 2. | 400/220kV Pandiabil Grid S/s: | , , | |
| a. | Pratapsasan(OPTCL)-Pandiabil(PG) 220 kV D/C line | By Dec, 2018. | |
| 3. | 400/220 kV Keonjhar S/S | | |

| a. | Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line | By June, 2018. |
|----|--|--------------------------------|
| b. | Keonjhar (PG)-Turumunga(OPTCL) 220kV D/C line | By 2019. The work is yet to be |
| | | started. |

OPTCL may update.

Deliberation in the meeting

OPTCL updated the status as mentioned in above table.

Item no. C.13: 220 kV inter-connecting lines of JUSNL with 2x315 MVA, 400/220 kV sub-stations at Chaibasa, Daltonganj&Dhanbad

In lastOCC, JUSNL updated the latest status as follows:

| SI. No. | Name of the transmission line | Completion schedule | | |
|---------|---|--|--|--|
| 1. | Daltonganj 400/220/132kV S/s: | | | |
| a. | Daltonganj(POWERGRID)-Latehar220kVD/c | By April, 2019. | | |
| b. | Daltonganj (POWERGRID) – Garhwa 220kV D/c | The line expected to be completed by May, 2018 but – Garhwa 220kV is expected to be completed by Dec 2018. | | |
| С | Daltonganj (POWERGRID) – Daltonganj (JUSNL) 132kV D/c | The line would be charged as per original configuration by July 2018. At present, Daltonganj (PG) has been connected to Daltonganj (JUSNL) at 132kV through existing 220 kV Latehar-Daltonganj line as stop gap arrangement till completion of the line. | | |
| D | Daltonganj (POWERGRID) – Chatarpur/Lesliganj 132kV D/c | Tendering is in progress. Expected to be completed by October 2019 | | |
| 2 | Chaibasa400/220kVS/s | | | |
| Α | Chaibasa(POWERGRID)-Noamundi220kVD/c | Not yet started | | |
| 3 | Dhanbad400/220kVS/s | | | |
| Α | LILO of Govindpur–Jainamore/TTPS 220kVD/c at Dhanbad | ROW issues.Target date November 2018. | | |

JUSNL may update.

Deliberation in the meeting

JUSNL updated the status as mentioned in above table.

Item no. C.14: 220 kV inter-connecting lines of WBSETCL with 400/220 kV, 2x315 MVA Alipurduar & 2x500 MVA Rajarhat sub-stations

In lastOCC, WBSETCL updated the latest status as follows:

| SI. No. | Name of the transmission line | Completion schedule | | |
|---------|---|---|--|--|
| 1. | 2x315MVA, 400/220kV Alipurduar sub-station | | | |
| a. | Alipurduar (POWERGRID) – Alipurduar (WBSETCL) 220kV D/c (<i>Twin moose</i>) | The line was commissioned on 6 th June 2018. | | |
| 2. | 2x500MVA, 400/220kV Rajarhat | | | |
| a. | Rajarhat-N. Town-3 (WBSETCL) 220 kV D/C line | Matching, ROW problem | | |
| b. | Rajarhat-N. Town-2 (WBSETCL) 220 kV D/C line | June, 2018,ROW problem | | |
| C. | Rajarhat- Barasat (WBSETCL) 220 kV D/C line | June, 2018,ROW problem | | |
| 3 | Subashgram400/220kVS/s | | | |
| а | Subashgram-Baraipur220kVD/cline | Feb 2019, 50% of work has been completed. | | |

WBSETCL may update.

Deliberation in the meeting

WBSETCL updated the status as mentioned in above table.

Item no. C.15: 220 kV inter-connecting lines of BSPTCL

In 145thOCC, BSPTCL updated the status as follows:

- 1. Darbhanga (ISTS) –Darbhanga (BSPTCL) 220kV D/c by July, 2018.
- 2. Darbhanga(ISTS)-Laukhi (earlier Supaul New) 220kVD/c by May, 2018

BSPTCL may update.

Deliberation in the meeting

BSPTCL updated the status as below:

- 1. Darbhanga (ISTS) –Darbhanga (BSPTCL) 220kV D/C: charged on 12th June,2018
- 2. Darbhanga(ISTS)–Laukhi (earlier Supaul New) 220kVD/C: *Ckt-I charged on 05th June, 2018 Ckt-II charged on 06th June, 2018.*

Item no. C.16: Update on status of telemetry

CERC vide order dated 28.02.2016 on Petition No. 007/SN/2014 directed NLDC and respective RLDCs to update the status of telemetry every month at their respective websites and take up the issue of persistent non-availability of data from Generating Stations/substations at RPC meetings for appropriate action.

ERLDC may present. Members may update.

Deliberation in the meeting

ERLDC has placed the latest status of telemetry, which is enclosed at Annexure-C16.

NTPC informed that New Farakka data would be available by 19th June 2018.

OCC advised all the constituents take appropriate action to ensure data availability to ERLDC.

Item no. C.17: Failure of Real time telemetry

a) In geographically located area of North Bengal and Sikkim to ERLDC:

In 142nd OCC, M/s East North Interconnection Company Limited (ENICL) informed that OPGW is already available in the line but laying of approach cable inside the POWERGRID sub-stations & termination at both end to communication Mux is pending. ENICL added that the same is under discussion at their end for early implementation of the same.

In 143rd OCC, ENCIL updated that termination of OPGW would be completed by end of June 2018.

Powergrid informed that the link would be in service by end of July 2018 subjected to termination of OPGW link.

Deliberation in the meeting

ENCIL representative was not available in the meeting for discussion.

b) Farakka STPS to ERLDC:

Real time SCADA data from Farakka STPS stage #3 SAS is not available at ERLDC since 10:32 Hrs of 09/09/2017. Real time SCADA data failure has been intimated to NTPC Farakka Generating station on number of occasions; verbally over phone & through but the same is yet to be rectified.

In 144th OCC, NTPC informed that they are in the process of replacing the SAS which would be completed by end of May 2018.

NTPC may update.

Deliberation in the meeting

NTPC informed that SAS replacement will be completed by 19th June, 2018.

Item no. C.18: Transfer capability determination by the states

In order to ensure, safe and secure operation of the grid, the states should carry out the power system study for operational planning and power transfer capability through their respective transmission links with the rest of the grid.

It was decided in the NPC meeting that to begin with, power system study for assessment of operational limits / power transfer capability for each state will be done by the concerned RLDC in association with concerned SLDC. Monthly TTC /ATC will be uploaded by the SLDCs at their respective websites and also communicated to concerned RLDC & NLDC subsequently.

ATC/TTC declared by states for the month of September-2018 is given below:

| SI | State/Utility | TTC import(MW) | | RM(MW) | | ATC (Import) MW | | Remark |
|----|---------------|----------------|--------|--------|--------|-----------------|--------|----------------|
| No | | Import | Export | Import | Export | Import | Export | |
| 1 | BSPTCL | | | | | | | Last available |
| | | | | | | | | for Jan-18 |
| 2 | JUSNL | 997 | | 30 | | 920 | | |
| 3 | DVC | 1220 | 3104 | 62 | 49 | 1158 | 3055 | |
| 4 | OPTCL | 1858 | | 85 | | 1773 | | |
| 5 | WBSETCL | 3630 | | 300 | | 3330 | | |
| 6 | Sikkim | | | | | | | |

BSPTCL has neither declared TTC nor has provided updated base case in last six months.

BSPTCL and Sikkim may update the status.

Deliberation in the meeting

BSPTCL and Sikkim informed that the persons dealing with TTC/ATC calculation got transferred which resulted in the discontinuation of ATC/TTC assessment work.

ED, ERLDC advised BSPTCL & Sikkim to send their new personnel to ERLDC for necessary training for enabling them to undertake TTC/ATC calculation and thereby, regularize the process of TTC/ATC calculation at the earliest.

BSPTCL informed they would calculate & update from next month onwards.

OCC underlined the need for continuity of the calculation for the benefits of the states and referred to TCC for guidance.

Item no. C.19: Time correction of SEMs in Eastern Region – Replacement of heavily drifted SEMs

The issue was discussed in 35th TCC/ERPC meetings and it was felt that the meters with severe drift greater than 10 min need to be replaced first and if replacement is done with Genus then readings are to be collected manually using Laptop till interfacing with AMR is completed. 35th ERPC advised Powergrid to replace the 10% of the heavily drifted SEMs with new Genus make meters in Phase-I. Subsequently drifted meter replacement work of Phase –I for 24 meters have been completed.

As per decision taken in 134th OCC meeting, another 10% heavily drifted meter list was prepared by ERLDC and given to Powergrid for replacement. In 140thOCC it was informed that all the Phase-II meters have been replaced except Kharagpur. Since issue of integration of Genus meter is already resolved, It was also decided that list of meters to be replaced in next phase may be prepared.

Accordingly List of drifted meters to be replaced in Phase-III is placed below:

| | | | Disease III | |
|-----|-----------------------|-----------|--|----------------|
| SNO | List of drifted meter | METER SNO | PRASE-III FEEDER NAME | Region |
| 1 | JEERAT(WB) | NP-6445-A | 400 KV JEERAT (WBSETCL) - BERHAMPORE(PG) | ER-II |
| 2 | JEERAT(WB) | NP-6446-A | 400 KV JEERAT (WBSETCL) - SUBHASGRAM | ER-II |
| 3 | RANCHI(PG) | NP-7853-A | 400 KV RAGHUNATHPUR 1 | ER-I |
| 4 | RANCHI(PG) | NP-7871-A | 400 KV RAGHUNATHPUR 2 | ER-I |
| 5 | ALIPURDUAR(PG) | NR-3716-A | 400 KV POLE-3 MAIN BAY-AGRA(NR) | ER-II |
| 6 | ALIPURDUAR(PG) | NR-3718-A | 400 KV POLE-3 TIE BAY AGRA(NR) | ER-II |
| 7 | NEW MELLI(PG) | NR-4620-A | 220 KV JORETHANG(JLHEP)-1 | ER-II |
| 8 | NEW MELLI(PG) | NR-4621-A | 220 KV JORETHANG(JLHEP)-2 | ER-II |
| 9 | TEESTA-III | NR-3714-A | 400 KV SIDE OF TEEST-III HEP GT-1 | ER-II |
| 10 | TEESTA-III | NR-3715-A | 400 KV SIDE OF TEEST-III HEP GT-2 | ER-II |
| 11 | TEESTA-III | NR-4450-A | 400 KV SIDE OF TEEST-III HEP GT-3 | ER-II |
| 12 | TEESTA-III | NR-3720-A | 400 KV SIDE OF TEEST-III HEP GT-4 | ER-II |
| 13 | TEESTA-III | NR-4623-A | 400 KV SIDE OF TEEST-III HEP GT-5 | ER-II |
| 14 | TEESTA-III | NR-3719-A | 400 KV SIDE OF TEEST-III HEP GT-6 | ER-II |
| 15 | TEESTA-III | NR-4456-A | 400 KV TEESTA-III - DICKCHU (MAIN) | ER-II |
| 16 | TEESTA-III | NR-4618-A | 400 KV TEESTA-III - DICKCHU (CHECK) | ER-II |
| 17 | TEESTA-III | NR-4454-A | 400 KV TEESTA-III - RANGPO (MAIN) | ER-II |
| 18 | TEESTA-III | NR-4453-A | 400 KV TEESTA-III - RANGPO (CHECK) | ER-II |
| 19 | JINDAL (GRIDCO) | NP-6502-A | 220KV JAMSHEDPUR (DVC) | ODHISA PROJECT |
| 20 | JAMSHEDPUR (DVC) | NP-6010-B | 220 KV JINDAL | ER-I |
| 21 | GANGTOK(PG) | NP-6026-A | 132KV CHUZACHEN(GATI) | ER-II |
| 22 | RANGPO(PG) | NP-7958-A | 132 KV CHUZACHEN (GATI) | ER-II |

In 144th OCC, Powergrid updated that new SEMs have been received and acceptance tests are in progress. Acceptance tests would complete by end of April 2018.

Powergrid added that time correction has been done at Ranchi.

Powergrid may update.

Deliberation in the meeting

Teesta-III informed that time correction had been done by them for all the SEMs installed at their end and the time drift is within permissible limits.

OCC opined that although time drift had been corrected, SEM connected to Teesta-III being Elster make are to be replaced by newly procured Genus make meter for AMR connectivity.

It was informed that SEMs at Jeerat(WB), Alipurduar(PG), New Melli (PG) Jindal(GRIDCO), Gangtok(PG) and Rangpor(PG) have been replaced with Genus make meters.

OCC advised all the utilities to check the time drift on weekly basis and correct the time drift immediately, if any.

Item no. C.20: Accounting of state drawl from Substation of PGCIL/ISTS Licensee in ER

As per Clause 7(1) (C) of CEA (Installation and Operation of Meters) Regulations, 2006 & its subsequent amendments, Main Meters for drawl computation through ICT should be installed on HV side of ICT and meters installed on LV side of ICT should be considered as Standby meters.

In view of the above it is proposed that Sate drawl from PGCIL/ISTS Licensee S/S may be computed by using the meter installed on HV side of ICTs in line with CEA regulation.

In order to enable ERLDC compute the state drawl through ICTs of PGCIL & other ISTS Licensees in ER as per CEA Regulations, PGCIL is requested to install meters at HV and LV side of ICTs at the stations enclosed at **Annexure-C20**.

In 144th OCC, Powergrid informed that SEMs are already available at some stations.

OCC advised Powergrid to check the healthiness & time synchronization of the installed SEMs and install new SEMs wherever it is required.

In 145th OCC, Powergrid informed that they will install the new SEMs by 2nd week of June 2018.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that the SEM installation in ER-I stations has been completed and the same at ER-II stations would be completed by June 2018.

Powergrid(Odisha) informed they will complete the SEM installation by July,2018.

Item no. C.21: Meter related issues

1. Replacement of SEM meters/time drift correction of SEMs installed in 400kV Derang-Phoolpada(PG) D/C line.

JITPL vide letter dated 5th February 2018 informed that there was time drift in SEMs installed in 400kV Derang-Phoolpada(PG) D/C line.

JITPL requested to resolve the long pending issue for which they are incurring loss in billing and DSM.

In 143rdOCC, Powergrid informed that SEM at one end has been replaced, the other end would be replaced after receiving the SEMs.

ERLDC, JITPL and PGCIL may update.

Deliberation in the meeting

Powergrid informed that both the meters have been replaced.

JITPL informed that meter on HV side of GT-I was showing erratic data. They have informed Powergrid and ERLDC for necessary action.

2. Less recording by Bidhanagar WBSETCL end meter

Meter No NP-6485-A installed at Bidhanagar end of 220 Waria (DVC) Line-2 is recording almost negligible data compared to Waria end meter since 11:15 Hrs of 16.03.2018. Subsequently ERLDC vide mail dated 28.03.18 and 03.04.18 (with a copy to PGCIL) requested WBSETCL to check CT/PT connection and Value measuredbythe said meter. However the problem is still persisting and WBSETCL energy accounting is done with Waria DVC end meter.

In 144th OCC, WBSETCL was advised to resolve the issues at the earliest.

In 145th OCC, it was informed that the issue would be resolved by 23rd June 2018.

WBSETCL/PGCIL may please further update.

Deliberation in the meeting

It was informed that the meter has been installed but the data could not be recorded due to cable problem.

3. High error between Main and Check Energy Meters of 220kV CB Feeder No.II at Birpara end.

The difference between main and check energy of 220kV ChhukhaBirpara Feeder II at Birpara end is showing high error of 1.08% and 1.00% for February and March 2018 respectively. The error is more than the allowable limit of 0.6%.

The Check Energy Meter which belong to Bhutan has been tested during January, 2018 and found to be within permissible limit. The main energy meter at Birpara end for 220kV CB Feeder No. II & III pertaining to PTC/POWERGRID was replaced with Genus make energy meter on April 20, 2017.

Therefore, PTC/POWERGRID is requested to test the Main Energy Meter at Birpara end.

In 144th OCC, Powergrid informed the meters have been tested and matched with other end meters.

Bhutan representative was requested to hand over all the relevant data to ERLDC for thorough scrutiny. The result of the scrutiny would be placed by ERLDC in the next OCC meeting.

In 145th OCC, ERLDC has placed the difference in SEM data between Main and Check Meters. Details are enclosed at **Annexure-C21**.

ERLDC may update.

Deliberation in the meeting

ERPC secretariat informed that the agenda was discussed in 37th Commercial meeting held on 11th June, 2018. The error was found to be within permissible limit for the meter reading of May-2018.

4. High error between Main and Check Energy Meters of 400kV Malbase – Siliguri Feeder – III (Siliguri end)

The percentage error observed for Main Energy Meter of 400kV Siliguri-Malbase Feeder – III(Siliguri end) is beyond permissible limit for the Month of February & March 2018. As per Power Purchase Agreement (PPA) the percentage error should not exceed 0.6%. The Check Energy Meter which belong to Bhutan has been tested on 19th January, 2018 and found to be within permissible limit.

Therefore, PTC/POWERGRID is requested to test the Main Energy Meter at Siliguri End.

In 144th OCC, Powergrid informed the meters have been tested and matched with other end meters.

It was informed that ERLDC would study and place the outcome in next OCC Meeting.

In 145th OCC, ERLDC has placed the difference in SEM data between Main and Check Meters. Details are enclosed at **Annexure-C21**.

ERLDC may update.

Deliberation in the meeting

ERPC Secretariat informed that the agenda was discussed in 37th Commercial meeting held on 11th June, 2018. The error wasfound to be within permissible limit for the meter reading of May-2018.

Item no. C.22: Mock Black start exercises in Eastern Region – ERLDC

Tentative Schedule for mock black start exercise for FY 2018-19 is given below:

| SI no | Name of Hydro Station | Schedule | Tentative Date | Schedule | Tentative Date |
|----------|-----------------------|--------------------------------------|--|---|-------------------|
| | | Test-I | • | Test-II | • |
| 1 | U.Kolab | Last week of May, 2018 | Completed on 8 th June,2018 | Last Week of January2019 | |
| 2 | Maithon | 1stweek of June 2018 | Completed on 6 th June,2018 | 1stWeek of February2019 | |
| 3 | Rengali | 2ndweek of June 2018 | Planned in July,2018. | Last week of November 2018 | |
| 4 | U. Indarvati | 3rdweek ofJune 2018 | Planned in July,2018. | 2ndweek of February2019 | |
| 5 | Subarnarekha | 1stweek of October 2018 | | 1stweek of January2019 | |
| 6 | Balimela | 3rdweek of October 2018 | | 1stweek of March 2019 | |
| 7 | Teesta-V | 2ndweek of Nov 2018 | Done on 3 rd May 2018 | Last week of February2019 | |
| 8 | Chuzachen | Last Week of May2018 | In May 2018 | 2 nd week of January2019 | |
| 9 | Burla | Last Week of June 2018 | Completed on 7 th June,2018 | Last week of February2019 | |
| 10 | TLDP-III | 1 st Week of June 2018 | After Monsoon | 2ndWeek of January2019 | |
| 11 | TLDP-IV | Last Week of June 2018 | After Monsoon | 1 st Week of February2019 | |
| 12 | Teesta-III | Last week of Oct 2018 | | First Week of March 2019 | |

| 13 | Jorthang | First Week of May | First Week of Feb |
|----|-----------|-----------------------------|-----------------------------|
| | | 2018 | 2019 |
| 14 | Tasheding | 2 nd Week of May | 2 nd Week of Feb |
| | | 2018 | 2019 |
| 15 | Dikchu | 3 rd Week of May | 3 rd Week of Feb |
| | | 2018 | 2019 |

Members may update.

Deliberation in the meeting

Members updated the status as mentioned in above table.

Item no. C.23: Schedule for reactive capability tests

In last OCC, Members updated the status and informed the schedule as follows:

- AdhunikTPS(both units) Unit #1 done on 27.10.2016 and submitted the testing report of unit #1. Unit #2 would be in service from April 2018.
- JITPL(both units) done testing of unit#1 and agreed to send the report. After the emergent inspection of OEM(BHEL). Unit #2 testing would be done in July 2018
- Barh TPS Vibration problems will be attended during overhauling. The testing would be done after overhauling in December 2019.
- Raghunathpur Coal not available
- GMR (Three units) Reactive Capability test for Unit 1 & 2 was done on 18th May 2018.

Members may update.

Deliberation in the meeting

Members updated the status as mentioned above.

Item no. C.24: Installation of PMUs in Eastern Region under URTDSM project

LOA for installation of PMUs in Eastern Region under URTDSM project was awarded to M/s Alstom on 15th January 2014. The contract has to be completed in all respect within 24 months from the award. The status of implementation may be informed since PMU data is very much important to real time shift operator for analyzing the security of the grid. The updated status as furnished in 142ndOCC by Powergrid is given at **Annexure-C.24**.

POWERGRID informed that air-conditioning and lighting arrangement in PDC control room at SLDC-Howrah was not yet provided by WBSETCL for PDC installation. The requirement of air-conditioning and lighting in PDC control room at SLDC-Howrah was intimated to WBSETCL during survey on November-2014 but the same is not yet provided. The matter has also been discussed in 20th SCADA O&M meeting held on 15th December 2018 wherein WBSETCL intimated that the same would be done on priority.

OCC advised WBSETCL to provide the air-conditioning and lighting in PDC control room at SLDC-Howrah at the earliest.

Regarding Patratu, it was decided that NTPC and JUSNL would sit together and sort out the issue by March, 2018.

In 143rd OCC, WBSETCL informed that the air-conditioning and lighting in PDC control room at SLDC-Howrah by July 2018.

Regarding Patratu, NTPC and JUSNL informed that they would settle the issues in April, 2018.

POWERGRID may update the status.

Deliberation in the meeting

Members noted.

Item no. C.25: Flexible Operation of thermal power stations- Identification of pilot projects--CEA

Central Electricity Authority vide letter dated 16th February 2018 informed that a special Task Force was constituted under IGEF Sub-Group-I for enhancing the flexible operation of existing coal-fired power plants. The committee has recommended for implementation of measures for 50%, 40% and 25% minimum load in thermal power stations. The measures for 50% minimum load operation requires no investment or minimal investment. (Report is available on CEA website under TRM division)

Subsequently, a meeting was held under the chairmanship of Member (Thermal) on 8th February 2018 where in it was decided that 55% minimum load operation would be implemented nationwide in first phase. Furher, Six units, including two units of NTPC and one unit each from DVC, GSECL, APGENCO, MSPGCL, would be taken up for 55% minimum load operation on pilot basis as 55% minimum load operation in line with the CERC notification dated 6th April 2016 and 5th May 2017 (IEGC 4th Amendment).

In 142nd OCC, NTPC informed all the units of NTPC were capable of 55% minimum load operation. DVC informed that they were planning to implement at DSTPS.

In 37th TCC, DVC informed that they would demonstrate the capability of 55% minimum load operation for one unit of DSTPS by March 2018.

In 144th OCC, DVC informed that an exercise to test 55% minimum load operationhad been conducted at DSTPS recently. The details of the test results, as and when received, would be shared with OCC members.

DVC may update.

Deliberation in the meeting

DVC informed that they could bring down their machine up to 60 % without oil support and with the available quality of coal.

Item no. C.26: Installation of new PWC made STOA software at ERLDC

ERLDC is in the process of installation of new STOA software developed by PWC.The new software is likely to be operationalised from 01.06.2018.A training programme will be arranged on the functioning of new STOA softwareon 24thMay,2018 at ERLDC.

The training program was held at ERPC Conference Hall on 24th May 2018.

Members may note.

Deliberation in the meeting

Members noted.

Item no. C.27: Operationalizing black start facility at Purulia Pump Storage Project (PPSP) of WBSEDCL--ERLDC

The issue was discussed in last several OCC meetings. However, till date, no fruitful conclusion has arrived. As orders for operationalization of black start facility at PPSP is already passed by honorable CERC and APTEL. Thus, under this condition, only two choices remain, that is either to perform mock black start test or to obtain an exemption from CERC/APTEL, a state in between these two, (unfortunately which is the present scenario) is not acceptable.

WBSEDCL may update.

Deliberation in the meeting

WBSEDCL informed that they would seek exemption from CERC / APTEL in this regard.

Item no. C.28: Segregation of ISGS station wise Bundle Coal power & Non Bundle coal power in ERLDC schedule to maintain proper merit order dispatch.

As per present practice of ISGS scheduling, both Bundle (Coal) & Non Bundle power in respect of any beneficiary are scheduled in clubbed manner. But as a matter of fact the Bundle (Coal) power is costlier than non bundle power of same ISGS station due to additional trading margin @7paisa per unit payable to NVVNL as Nodal Agency of JNSM Bundle power scheme. So due to this prevailing practice proper merit order dispatch is not being maintained during Backing down & URS allocation. Hence, head wise segregation of ISGS schedule is required to explore immediately with a view to honour the spirit of merit order dispatch principle in compliance with National Tariff Policy.

In 144th OCC, Member Secretary, ERPC suggested that ERPC in co-ordination with ERLDC and WBSEDCL would study the issue and revert back to OCC.

Subsequently, a meeting was held at ERPC among ERPC, ERLDC and WBSEDCL. Different aspects of segregation are being studied. Once the methodology is finalised, the same would be put in the OCC meeting.

Members may note.

Deliberation in the meeting

ERLDC informed that the scheduling based on the new methodology was started from 1st June, 2018.

Item no. C.29: Issuance of TOC for DSTPS-RTPS OPGW link by DVC

In 19th SCADA O & M meeting held on 7th April 2017 at ERLDC, Kolkata, POWERGRID had informed that they were not able to complete the OPGW work in DSTPS – RTPS in DVC Sector under Microwave Replacement Package due to severe ROW issue. POWERGRID further informed that they had mobilized the team several times but work could not be completed due to heavy ROW / compensation issues related to TL construction resulting non-completion of 2 nos. OPGW drum (approx. 9 Km) out of total 69.182 Km. POWERGRID again informed that this issue was discussed in various forums but the solution could not be provided by DVC. DVC informed that they are not able to resolve the issue as this was an old ROW / compensation issue related to TL construction. OPGW work in this link could not be completed due to ROW/Compensation issues since September-2013.

In 36th ERPC meeting, matter was deliberated and DVC informed that they would try to resolve ROW issues by 31st October-2017. Otherwise they would provide the necessary certificate.

In 20th SCADA O&M meeting held on 15th December-2017, POWERGRID informed that DVC had not yet issued TOC for this link. DVC confirmed that they will issue TOC and request for a letter from POWERGRID. POWERGRID issued the request letter on 20.12.2017. However, ToC is yet to be issued by DVC.

In 37th TCC, DVC informed that the ROW issue would likely to be resolved after the Panchayat Election of West Bengal.

DVC may update.

Deliberation in the meeting

OCC referred to TCC for guidance.

Item no. C.30: Bus Splitting of Kahalgaon STPS Stage I&II, NTPC

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

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

In 126th OCC, NTPC has given the present status as follows:

- ➤ 400/132kV Switchyard package bid opened on 14.03.16. Awarded on 04.05.2016.
- ➤ Site levelling Site levelling work has been completed.
- Transformer package and Shunt reactor— have been awarded.

In 35th TCC, NTPC informed that the work is in progress as per the schedule and the bus splitting will be completed by December, 2018.

In 140th OCC, NTPC informed that Bus reactor is at site and Banka line I & II would be shifted by March 2018. Bus splitting would be implemented by December, 2018.

NTPC may update.

Deliberation in the meeting

NTPC informed that bus splitting would be implemented by December, 2018.

Item no. C.31: Status of commissioning of new bus reactors in ER

In 37th TCC, Powergrid informed that

| 1 | Additional bus-reactor of 125 MVAR | Commissioning expected by April'18. | | | |
|----|------------------------------------|-------------------------------------|--|--|--|
| | capacity at Beharampur. | | | | |
| 2. | 125 MVAR Bus reactor of | LOA placed. | | | |
| | Subashgram | | | | |

Powergrid vide mail dated 8 June 2018 informed that advancement of commissioning of Bus Reactor at Baripada, Bolangir and Keonjhar as per the following against investment approval schedule of Nov'18:

| SI No | Substation | Name of element | Expected Date of commissioning |
|-------|------------|---------------------|--------------------------------|
| 1 | Baripada | 125MVAR Bus Reactor | 30.07.2018 |
| 2 | Bolangir | 125MVAR Bus Reactor | 30.08.2018 |
| 3 | Keonjhar | 125MVAR Bus Reactor | 30.09.2018 |

Powergrid may update.

Deliberation in the meeting

POWERGRID updated that additional bus-reactor of 125 MVAR capacity at Beharampur was ccommissioned in March'18.

Powergrid informed that 125MVAR Bus Reactor at Durgapur would be commissioned by 30.06.2018 against investment approval schedule of Nov'18.

Members noted.

Item no. C.32: Methodology for Submitting the Status of New Transmission Elements/ Generating Units to be Commissioned within the State

The above matter was deliberated in various OCC meetings and data submission format was also circulated. All states and transmission licensees agreed to submit the list of transmissions elements synchronized for the first time during last month within 7th day of the current month to ERLDC through mail:

- erldcam@gmail.com
- ftcer@posoco.in
- mserpc-power@nic.in

For the Month of May-2018, Odisha and West Bengal only submit list of transmissions elements synchronized for the first time during last month. Other states and transmission licensees did not submit both List of Transmission element and generators synchronised in the previous Month and List of Transmission element and generators expected to be synchronised during next Month.

Members may please note.

Deliberation in the meeting

Members noted.

Item no. C.33: Augmentation of 400/220kV ICT capacity at Patna, Sasaram

| S. No. | Name of the Substation | | Status |
|--------|---------------------------|---------------------------------|--|
| 1 | Patna | ICT with 500 MVA ICT | The 2 nd 500 MVA ICT was installed in place of 3 rd ICT. |
| | | New 500 MVA 3 rd ICT | |
| 2 | Sasaram | Argumentation of 315 MVA | will be done in 1 st quarter of |
| | | ICT with 500 MVA ICT | 2018-19. |

Powergrid informed that the shutdown of 315MVA ICT-2 of Patna was approved from 01.06.2018 to 30.06.2018 oncontinuous basis in 145thOCC of ERPC for augmentation work. After S/D of 315MVA ICT-2 at Patna,two nos. 500 MVA ICTs will remain in service and demand can be met accordingly. As the newtransformer along with all accessories will be available at

Patna by 20.06.2018, the shutdown of 315MVA ICT-2 of Patna may kindly be allowed from 01.07.2018 to 30.07.2018 on continuous basis.

The shutdown of 315MVA ICT-2 of Pusauli SS was approved from 04.06.2018 to 09.07.2018 on continuous basis in 145thOCC of ERPC for augmentation work, but t he same has not been allowedby BSPHCL due to load constraints. After S/D of 315MVA ICT-2 at Pusauli, one no. 500 MVA ICT willremain in service and demand can be met accordingly. For allowing the shutdown of 315MVA ICT-2 at Pusauli, the load in Pusauli - Sahupuri line is to be restricted to 50 MW and the said shutdown maybe allowedw.e.f. 20.06.2018 to 25.07.2018. Load restriction through load in Pusauli - Sahupuri line may discussed with NR.

Members may approve.

Deliberation in the meeting

It was informed that request for load restriction through load in Pusauli - Sahupuri line has been sent to NRPC.

OCC advised Bihar to allow the shutdown. Bihar agreed to look into it.

PART D:: OPERATIONAL PLANNING

Item no. D.1: Anticipated power supply position during July'18

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of July'18 were prepared by ERPC Secretariat on the basis of Provisional LGBR for 2015-16 and feedback of constituents, keeping in view that the units are available for generation and expected load growth etc. is at **Annexure-D.1**.

Members may confirm.

Deliberation in the meeting

Modified anticipated power supply position for the month of July 2018 after incorporating constituents' observations is given at **Annexure-D.1**.

Item no. D.2: Shutdown proposal of transmission lines and generating units for the month of July'18

Members may finalize the Shutdown proposals of transmission lines and generating stations for the month of July 18.

Shutdown proposals of generating stations:

| System Station | | Unit Size | | Period | | No. of | Dagger |
|----------------|-----------|-----------|------|----------|----------|--------|---------------------|
| System | Station | Umt | (MW) | From | To | Days | Reason |
| Bihar | MTPS | | | | | | |
| Dillar | (KBUNL) | 1 | 110 | 15.07.18 | 05.08.18 | 22 | Boiler Overhauling |
| Jharkhand | TVNL, | | | | | | |
| Jiiai Kiiaiiu | Tenughat | 1 | 210 | 05.07.18 | 30.07.18 | 26 | Overhauling |
| | Kolaghat | | | | | | |
| | TPS | 2 | 210 | 01.07.18 | 28.02.19 | 243 | R&M |
| WBPDCL | Bakreswar | | | | | | |
| WBFDCL | TPS | 2 | 210 | 03.07.18 | 01.08.18 | 30 | Boiler Overhauling |
| | Sagarighi | | | | | | |
| | TPS | 2 | 300 | 01.07.18 | 09.08.18 | 40 | Capital Overhauling |
| DPL | DPPS | 7 | 300 | 01.07.18 | 14.08.18 | 45 | BTG OH |
| NTPC | FSTPP | 2 | 200 | 10.07.18 | 03.08.18 | 25 | Boiler, LPT |
| NTPC | KhSTPP | 3 | 210 | 01.07.18 | 25.07.18 | 25 | Boiler Overhauling |
| IPP | GMR | | | | | | Annual Boiler |
| IPP | GWIK | 1 | 350 | 01.07.18 | 24.07.18 | 24 | Overhauling |

ERLDC may place the list transmission line shutdown. Members may confirm.

Deliberation in the meeting

Approved maintenance programme of generators as follows:

| Cyatam | Station | Unit | Size | Period | | No. of | Doggon | |
|---------------|-----------|------|------|----------|----------|--------|---------------------|--|
| System | Station | UIII | (MW) | From | To | Days | Reason | |
| Jharkhand | TVNL, | | | | | | Already under | |
| Jilai Kilailu | Tenughat | 1 | 210 | 05.07.18 | 30.07.18 | 26 | shutdown | |
| | Bakreswar | | | | | | | |
| WBPDCL | TPS | 2 | 210 | 03.07.18 | 01.08.18 | 30 | Boiler Overhauling | |
| WBPDCL | Sagarighi | | | | | | | |
| | TPS | 2 | 300 | 01.07.18 | 09.08.18 | 40 | Capital Overhauling | |

| DPL | DPPS | 7 | 300 | 16.07.18 | 25.08.18 | 45 | BTG OH |
|------|--------|---|-----|----------|----------|----|--------------------|
| NTPC | FSTPP | 2 | 200 | 10.07.18 | 03.08.18 | 25 | Boiler, LPT |
| NTPC | KhSTPP | 3 | 210 | 01.07.18 | 25.07.18 | 25 | Boiler Overhauling |
| IPP | GMR | | | | | | Annual Boiler |
| IFF | GWIK | 1 | 350 | 01.07.18 | 24.07.18 | 24 | Overhauling |

Approved maintenance programme of transmission elements for the month of July 2018 is given at **Annexure-D.2.**

1. Delay of synchronization Unit-4 after Overhauling.

After opening of LP turbine, unprecedented problem observed and for that LP Turbine Rotor was replaced. Details are enclosed at **Annexure-D2.1**.

Members may note.

Deliberation in the meeting

Members noted.

2. Rescheduling of Talcher STPS unit 2 overhauling-NTPC

NTPC vide letter dated 27th March 2018 informed that overhauling of Talcher STPS unit 2 was initially scheduled from **10**th **November 2018 for 30 days** as per LGBR.

Subsequently considering the past experience of power demand in festive season of ER during October and November, NTPC requested to prepone the shutdown to 15th July 2018 to 13th August 2018 for 30 days. During this period there will be increased hydro generation and hence less demand in the Grid.

In 144th OCC, Members did not agree with the NTPC proposal regarding rescheduling of Unit-2 of Talcher STPS. NTPC was advised to strictly adhere to the schedule given in LGBR unless an emergent situation demands any revision of shut down program.

NTPC vide letter dated 10th May 2018 requested for the rescheduling of Talcher STPS unit 2.

145thOCC has given the provisional clearance for Talcher Unit 2 shutdown from 15thJuly 2018 to 13th August 2018 for 30 days. Shutdown would be approved subjected to Grid conditions in June 2018.

Members may approve.

Deliberation in the meeting

In view of delay in synchronization of Unit 5, NTPC requested to consider Talcher Unit 2 shutdown from 1st August 2018 for 30 days.

OCC decided to finalize the shutdown in next OCC Meeting.

3. Overhauling schedule of MTPS Units of KBUNL

| | UNIT-4 (195 MW) SD J | ОВ | | UNIT-3 (195 MW) O | | | |
|------------|----------------------|----------|------------|-------------------|----------|--|--|
| START DATE | COMPLETION DATE | DURATION | START DATE | COMPLETION DATE | DURATION | | |
| 10.06.2018 | 22.06.2018 | 13 DAYS | 25.06.2018 | 19.07.2018 | 25 DAYS | | |

| UNIT-1 (110 MW) O/H | | | | | | | | |
|---------------------|-----------------|----------|--|--|--|--|--|--|
| START DATE | COMPLETION DATE | DURATION | | | | | | |
| 01.08.2018 | 25.08.2018 | 25 DAYS | | | | | | |

Members may approve.

Deliberation in the meeting

OCC agreed the Overhauling / Shutdown schedule of MTPS units as per following plan:

| UNIT-4 DOWN | (195 MW |) SHUT | UNIT-3 (1 | 95 MW) O/H | ł | UNIT-1 (1 | 10 MW) O/F | I |
|----------------|---------------------|---------|----------------|------------|---------|----------------|------------|--------------|
| | COMPLETI ON DATE | | | | | | | DURATI ON |
| 10.06.20 18 | 24.06.2018 | 15 DAYS | 29.06.20 18 | 23.07.2018 | 25 DAYS | 01.08.20 18 | 25.08.2018 | 25 DAYS |

4. Shutdown request by Alipurduar Transmission Limited for construction of 400kV GIS extension at Dharbhanga

| Name of Line/Equipment | Date and Time | Remarks |
|--|-------------------------------|---|
| Shutdown of Bus Reactor BS- 2 400kV Sub-station of DMTCL at Darbhanga Shutdown of Main Bus -1 | 15/05/2010 [0 | For Erection of Gantry Tower 4T1A and 1No Beam. |
| 400kV Sub-station of DMTCL at Darbhanga | From 01/06/2018 to 08/06/2018 | For Integration of Bus Bar |
| Shutdown of Main Bus -2 400kV Sub-station of DMTCL at Darbhanga | From 10/06/2018 to 17/06/2018 | For Integration of Bus Bar |
| Shutdown of both Bus Bar (Main Bus - 1 & 2) 400kV Sub-station of DMTCL at Darbhanga | From 16/06/2018 to 17/06/2018 | For Bus Bar Protection Panel Integration |

ATL may explain. Members may approve.

Deliberation in the meeting

Shutdown could not be discussed as Alipurduar Transmission Limited representative was not available in the meeting.

5. Shutdown for strengthening of 765 kV S/C delta tower in 765 kV Angul-Sundergarh line1&2-Consideration of deemed availability.--Powergrid

POWERGRID Odisha Projects vide letter dated 2nd June 2018 informed that there had been failures of 765kV S/C A-type towers of wind zone-4 in NR-1, NR-3, WR-1, ER-2 and ER-1. Strengthening of the WZ-4 A type delta tower has been developed by Powergrid in consultation with CPRI to prevent tower collapse.

Accordingly, it is required to strengthen 212 nos of 765kV Delta S/c towers in 765kV Angul-Sundergarh line I & II. The erection work is proposed to be taken during June 2018 by availing shutdown.

Powergrid requested for consideration of outages taken for Strengthening of 765KV S/C Delta Towers in 765KV Angul-Sundargarh#1 & 2 as deemed availability.

Members may approve.

Deliberation in the meeting

OCC approved the shutdown as per the list given in Annexure-D.2.

It was informed that the deemed availability would be considered as per the CERC regulations.

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

(i) Thermal Generating units:

| S.No | Station | Owner | Unit No | Capacity (MW) | Reason(s) | Outage (Date) |
|------|--------------|--------|------------|------------------|--------------------------------|------------------|
| 1 | KAHALGAON | NTPC | 6 | 500 | Overhauling | 13-May-18 |
| 2 | KOLAGHAT | WBPDCL | 3 | 210 | POLLUSION CONTROL PROBLEM | 23-Feb-17 |
| 3 | BANDEL | WBPDCL | 5 | 210 | UNDER MAINTAINANCE | 26-May-18 |
| 4 | CTPS | DVC | 3 | 130 | TURBINE BLADE DAMAGE | 30-Jul-17 |
| 5 | BAKRESHWAR | WBPDCL | 5 | 210 | BOILER OVERHAULING | 5-Jun-18 |
| 6 | JITPL | JITPL | 1 | 600 | ASH EVACUATION SYSTEM PROBLEM. | 20-May-18 |
| 7 | VEDANTA | GRIDCO | 1 | 600 | STATOR PROTECTION | 19-May-18 |
| 8 | VEDANTA | GRIDCO | 2 | 600 | PROBLEM IN BOILER | 8-Feb-18 |
| 9 | MEJIA | DVC | 6 | 250 | STATOR EARTH FAULT | 15-Mar-18 |
| 10 | SAGARDIGHI | WBPDCL | 4 | 500 | TURBINE VIBRATION | 5-Apr-18 |
| 11 | BOKARO A | DVC | 1 | 500 | ROTOR EARTH FAULT | 6-Jun-18 |
| 12 | TENUGHAT | JUVNL | 1 | 210 | COAL SHORTAGE | 21-May-18 |
| 13 | MEJIA | DVC | 2 | 210 | COAL SHORTAGE | 30-Apr-18 |
| 14 | RAGHUNATHPUR | DVC | 1 | 600 | COAL SHORTAGE | 1-Jun-18 |
| 15 | RAGHUNATHPUR | DVC | 2 | 600 | COAL SHORTAGE | 7-Jun-18 |
| 16 | NABINAGAR | BRBCL | 2 | 250 | COAL SHORTAGE | 11-Apr-18 |

(ii) Hydro Generating units:

| Sr. No | Generating Station | UNIT NO | CAP(MW | REASONS FOR OUTAGE | OUTAGE DATE |
|-----------|-----------------------|------------|--------|---|----------------|
| 1 | BURLA | 5 | 37.5 | R & M WORK | 25.10.2016 |
| 2 | BURLA | 6 | 37.5 | R & M WORK | 16.10.2015 |
| 3 | CHIPLIMA | 3 | 24 | R & M WORK | 15.10.2015 |
| 4 | BALIMELA | 1 | 60 | R & M WORK | 05.08.2016 |
| 5 | BALIMELA | 2 | 60 | R & M WORK | 20.11.2017 |
| 6 | BALIMELA | 7 | 75 | Governor & Guide vane problem | 12.10.2017 |
| 7 | U.KOLAB | 2 | 80 | Repair of MIV & Draft tube gate leakage | 28.05.2017 |

It is therefore seen that about 374 MW hydro capacity in Odisha is under forced outage / R&M and therefore not available for providing the much needed peaking support during peak. SLDC / OHPC may please indicate the capacity expected to be restored by 30/06/18.

(iii) Transmission elements

| SL NO | Transmission Element / ICT | Agency | OutageDate | Reasons for Outage |
|----------|-----------------------------------|------------------|------------|--|
| 1 | 220 KV BALIMELA - U' SILERU | OPTCL / APSEB | 10.03.18 | LINE ANTITHEFT CHARGED FROM UPPER SILERU ON 17-04-18 |
| 2 | 400KV TALA -BINAGURI -I | POWERGRID/BHUTAN | 02.03.18 | LINE OPENED ON O/V |
| 3 | 400 KV MOTIHARI- GORAKHPUR -II | POWERGRID | 07.04.18 | SF6 GAS DUCT LEAKAGE IN MAIN AND TIE BAY ; |
| 4 | 765 KV GAYA-VARANASI-I | POWERGRID | 14.05.18 | TOWER BEND AT LOC 368 |
| 5 | 400 KV MPL-MAITHON D/C | POWERGRID | 10.05.18 | TOWER COLLAPSED AT LOC NO -63/64/65 |
| 6 | 315MVA ICT-1 AT KOLAGHAT | WBSETCL | 16.04.18 | R PHASE BANK BURSTED |
| 7 | 400 KV IBEUL - JHARSAGUDAD/C | IBEUL | 29.04.18 | TOWER COLLAPSE AT LOC 44,45 |

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

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

Members may update.

Deliberation in the meeting

Members noted.

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

PART E::ITEMS FOR INFORMATION

Item No. E.1: Restricted Governor /Free Governor Mode Operation of generators in ER

CERC vide their letter dated 05-06-2017 desired to know the present status of RGMO/FGMO response of all eligible thermal and hydro units. Accordingly ERLDC vide letter no.ERLDC/SS/FGMO/2017 dated 07-06-17 requested all concerned power stations and SLDCs to provide updated status of FGMO/ RGMO of units under their control.

The latest status of the RGMO/FGMO of ER generators is enclosed in Annexure-E1.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.2: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.

The activity of the preparation of Crisis Management Plan for countering the cyber attacks and its implementation including the Mock Drills, audits etc. is being monitored by CEA regularly in line with crisis management plant of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

In 142nd OCC, ERLDC informed that, in line with Enquiry Committee Recommendation, cyber security audit is being conducted on regular basis for SCADA system installed at ERLDC and SLDC as well but cyber security audit for telecom infrastructure installed in Eastern Region is not being carried out.

OCC advised all the constituents to conduct the cyber security audit on telecom infrastructure installed in Eastern Region. It is further advised that compliance / mitigation of the points observed during the audit should also be completed for improvement of the telecom infrastructure in ER.

In 37th TCC meeting, it was decided that a workshop would be conducted by CEA at ERPC for further benefit of ER Constituents.

In 144th OCC, ERLDC informed that they have already conducted a workshop with the help of NPTI, Durgapur on 21st March 2018.

A workshop on cyber security was conducted by CEA at ERPC, Kolkataon 09-05-2018.

As suggested by CEA, a format would be circulated among ER constituents for furnishing the information of the their respective systems for discussion in OCC Meeting. The format is enclosed at **Annexure-E2**.

OCC advised all the constituents to submit the information to ERPC as per Annexure-E2.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.3: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.

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

As per the information received from the constituents the following generators certified with IS 18001:

- All NTPC stations in Eastern Region
- Teesta, NHPC
- All OHPC generating units
- All CESC generating units
- All units of WBPDCL
- DGPC units

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.4: Status of Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipment.

The status of DR/EL and GPS as updated in previous OCCs is enclosed at Annexure-E.4.

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

TeestaUrja Limited vide letter dated 8th September 2017 informed that Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipments are available at Teesta III HEP.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.5: Status of Emergency Restoration System (ERS Towers) for Eastern Region constituents

CEA vide letter dated 21.07.2017 requested to send the status of state-wise availability of ERS towers and requirement of ERS towers.

In 136th OCC, MS, ERPC informed that CEA vide letter dated 21.07.2017 has sought the latest status on ERS. Therefore, OCC advised all constituents to send the updated status to ERPC secretariat vide mail (mserpc-power@nic.in).

Latest status is enclosed at **Annexure- E.5**.

In 138th OCC, WBSETCL informed that they are having total 10 ERS towers, 5 at Arambagh and 5 at Gokharno.

In 139th OCC, JUSNL informed that they are having eight 220/132kV ERS towers at following locations:

Hatia – 3 nos

- Ranchi 2 nos
- Dumka 3 nos

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.6: Status of 1st Third Party Protection Audit:

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

| Name of Constituents | Total Observations | Complied | % of Compliance |
|-----------------------------|-----------------------|----------|--------------------|
| Powergrid | 54 | 46 | 85.19 |
| NTPC | 16 | 14 | 87.50 |
| NHPC | 1 | 1 | 100.00 |
| DVC | 40 | 26 | 65.00 |
| WB | 68 | 49 | 72.06 |
| Odisha | 59 | 42 | 71.19 |
| JUSNL | 34 | 25 | 73.53 |
| BSPTCL | 16 | 5 | 31.25 |
| IPP (GMR, Sterlite and MPL) | 5 | 5 | 100.00 |

^{*} Pending observations of Powergridare related to PLCC problems at other end.

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

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

Members may comply.

Deliberation in the meeting

Members noted.

Item No. E.7: Non-Payment of dues to Powergrid—Powergrid Odisha

- A. **JITPL**: Rs. 1.1 Crore from M/s JITPL (Rs. 0.53 Crore towards bay maintenance + Rs. 0.57 Crore towards interest charges)
- B. Ind-BharathEnergy(Utkal) Ltd (IBEUL): Rs.1.19Crore is due from M/s Ind-Bharath (Utkal) Energy Limited towards Bay maintenance and Interest charges.
- C. **Monnet Power Corporation Ltd:**Rs0.923crore is due from M/s Monnet Power Corporation Ltd.
- D. **GMR KAMALANGA ENERGY INDIA LIMITED**: Rs 0.239 crore due from M/s GMR towards interest payment.

Members may note and clear the dues.

Deliberation in the meeting

Item No. E.8: Commissioning of new transmission elements in Eastern Region

The details of new units/transmission elements commissioned in the month of May - 2018 based on information furnished by the constituents are depicted below:

| SL NO | Element Name | Owner | Charging Date | Charging Time | Remarks |
|-------|--|---------|------------------|----------------------|--|
| 1 | 400/132 kV ICT-I at NPGC SS | NPGC | 5/4/2018 | 13:54 | |
| 2 | 220kV Alipurduar(PG)- Alipuduar(WB)-II | WBSETCL | 5/22/2018 | 17:53 | Loaded on 06/06/18 at 16:04hrs. |
| 3 | 315MVA, 400/220/33KV ICT#2 at DSTPS | DVC | 5/23/2018 | 13:37 | Idle charged from 400kv Side & 220kV side not constructed yet |
| 4 | 220kV Darbhanga(DMTCL)- laukhai I | BSPTCL | 5/23/2018 | 18:42 | |
| 5 | 220kV Darbhanga(DMTCL)- Laukahi II | BSPTCL | 5/23/2018 | 18:48 | |
| 6 | 132kV LILO of Dhenkanal-ICCL Line | OPTCL | 5/23/2018 | | Charging Time and LILO point may be updated |
| 7 | 132/33kV, 2X40 MVA, Khuntuni GIS S/s | OPTCL | 5/23/2018 | | Charging Time may be updated |
| 8 | 220kV Alipurduar(PG)- Alipuduar(WB)-I | WBSETCL | 5/31/2018 | 15:41 | Loaded on 06/06/18 at 16:04hrs. |
| 9 | 220/132KV 160MVA TR-1 at Alipurduar (WB) | WBSETCL | 5/31/2018 | 17:26Hr.(HV SIDE) | VIA 220kv MB#1 |
| 10 | 220/132KV 160MVA TR-2 at Alipurduar (WB) | WBSETCL | 5/31/2018 | 17:09Hr.(HV SIDE) | VIA 220kv MB#2 |
| 11 | 220 KV BUS COUPLER at Alipurduar (WB) | WBSETCL | 5/31/2018 | 15:54Hr. | |
| 12 | 132/33kv 31.5MVA TR#3 Chanditala | WBSETCL | 04.05.18 | 14:50Hr | Charged(HV). |
| 13 | 132/33kv 31.5MVA TR#3 Chanditala | WBSETCL | 05.05.18 | 15:02Hr | Loaded |
| 14 | 132/33 KV 50MVA TR#3 C K Road | WBSETCL | 25/05/2018 | 19:00Hr | CHARGED(HV). |
| 15 | 132/33 KV 50MVA TR#3 C K Road | WBSETCL | 26/05/018 | 14:20Hr | LOADED. |
| 16 | 132KV N.BISNUPUR- INDUS#2 (R.L 37.858KM) | WBSETCL | 30.05.2018 | 17:05HR. | CHARGED from N.BISH |
| 17 | 132KV N.BISNUPUR- INDUS#1 (R.L 37.858KM) | WBSETCL | 30.05.18 | 17:54Hr.(N.BI SH) | CHARGED at BOTH END |
| 18 | 132KV N.BISNUPUR- INDUS#1 (R.L 37.858KM | WBSETCL | 31.05.18 | 20:02 Hr.(INDUS) | |
| 19 | 132KV GIS M.B.#1 at INDUS 132/33 kV SS | WBSETCL | 31.05.18 | 20:02HR. | VIA N.BISH- INDUS#1 |

| 20 | 132KV GIS M.B.#2 at INDUS 132/33 kV SS | WBSETCL | 31.05.18 | 20:45 Hr. | VIA 132KV Bus Coupler |
|----|---|---------|----------|--------------------|--------------------------|
| 21 | 132/33KV 50MVA TR# 1 at INDUS 132/33 kV SS | WBSETCL | 31.05.18 | 20:38/20:42 Hr. | 33KV bus charged |
| 22 | 132/33KV 50MVA TR#2 at INDUS 132/33 kV SS | WBSETCL | 31.05.18 | 20:50HR. | Both HV & LV |

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.9: Checklist for submission of updated data for Protection Database

The network data in Protection Database needs to be updated on regular basis on account of commissioning of new elements in the CTU as well as STU networks. Accordingly, a checklist has been prepared which is enclosed in **Annexure-E9**.

All the constituents are requested to submit the checklist on monthly bases in every OCC/PCC meetings.

In 139th OCC, all the constituents were advised to submit the data to ERPC vide mail (mserpc-power@nic.in) as per the checklist for last three months.

OCC advised all the constituents to submit the data to ERPC vide mail (mserpc-power@nic.in) as per the checklist for last three months.

Constituents may note and comply.

Deliberation in the meeting

Members noted.

Item No. E.10: UFR operation during the month of May'18

System frequency touched a maximum of 50.22 Hz at 18:02 Hrs of 12/05/18 and a minimum of 49.56 Hz at 19:49 Hrs of 26/05/18. Hence, no report of operation of UFR has been received from any of the constituents.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.11: Grid incidences during the month of May, 2018

| SI No | Date | Time | Affected System | Summary | GD/GI |
|----------|----------------|-------|--------------------|--|-------|
| 1 | 25-05- 2018 | 16:30 | OPTCL | At 16:30 Hrs R ph LA blasted in 220 KV Jaynagar-Laxmipurckt I at Jaynagar which led to remote end tripping of some 220 KV ckts and backup overcurrent/reverse zone clearing of some ckts from Jaynagar end. As a result, 220 KV Jaynagar substation became | GD-I |

| | | | | dead and due to loss in evacuation paths,160 MW in Upper Kolab(unit 1 and 3) and 268 MW in Balimela(Unit 3,4,5,6,7,8) tripped. | |
|---|----------------|-------|-------------------------|--|------|
| 2 | 26-05- 2018 | 12:06 | BSPTCL | At BODHGAYA GSS, Total power failed after tripping of both 220 KV Gaya(PG)-Bodhgaya ckt-1 and 2 at 12:06 Hrs from Gaya (PG) end. | GD-I |
| 3 | 28-05- 2018 | 21:41 | BSPTCL | 220 KV Gaya Bodhgaya d/c tripped from Gaya(PG) end only on 3-Ph Fault, zone III . Actually fault was in 220 KV Bodhgaya-Khizersarai-I line. During anti-theft charging of the said line 220 KV Gaya Bodhgaya d/c tripped from Gaya(PG) end. | GD-I |
| 4 | 28-05- 2018 | 19:04 | WBSET CL & BSPTCL | At 19:04 hrs R-N fault took place in 400 KV Malda-Purnea-2 line and during A/R attempt Bus bar protection operated at Malda 400 KV and all the element tripped. Then Dalkhola B/C tripped in O/C and 220 kV Purnea-Purnea D/C and 220 kV Kishangunj-Dalkhola D/C tripped in DEF leading to wide spread blackout at Malda, Dalkhola and Purnea. | GD-I |
| 5 | 30-05- 2018 | 18:22 | ISTS | 220 kV Ranchi - Hatia D/C tripped in R-B fault at 18:22 hrs. At same time 220 kV Hatia - Patratu D/C tripped on overreaching the fault resulting interruption of power at 220/132 kV Hatia S/S and its surrounding areas | GD-I |
| 6 | 31-05- 2018 | 18:43 | ISTS | Total power failure occurred at Daltongunj after tripping of 400 kV Sasaram - Daltongunj D/C at 18:43 hrs on R-N and B-N fault respectively. | GD-I |

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.12: Non-compliance of directions issued by SLDC

Vide clause no 5.5.1.(c)(h) of IEGC, non-compliance of SLDC directions by SEB/Distribution licenses/bulk consumers to curtail overdrawal are to be reported to ERLDC for incorporating the same in weekly report to be prepared and published by ERLDC.

All SLDCs are to inform ERLDC the instances of non-compliance of SLDC directions by SEB/Distribution licenses/bulk consumers to curtail overdrawal, within two days after the day of operation.

No report from any constituent has yet received. Hence, ERLDC would be considering 'Nil' report for all constituents for May18.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.13: Reporting of voltage deviation indices (VDI) for select S/Stns in ER

ERLDC submitted the Voltage Deviation Index (VDI) of selected 400 kV Sub-stations for May 2018 of Eastern Region which is enclosed at **Annexure-E13**.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.14: Additional agenda

1. COMPLETION OF 400 KV ALIPURDUAR-PHUNATSANHGCHU-D/C QUAD LINE

As per approved project scheme 400 KV Alipurduar-Phunatsanchu-D/C Line (Quad) along with 400 KV Line Bays at Alipurduar S/S has been commissioned and successfully charged on 27th March 18. However due to non availability of Bhutan generation and balance construction activity at Bhutan end, Power flow is yet to initiate through the lines. POWERGRID has completed all the relevant work pertaining to the line, and as on date both the lines are charged from Alipurduar end up to Indian border as anti theft measure. POWERGRID should be allowed to declare DOCO of the said line from 27.03.2018 and claim tariff accordingly.

Deliberation in the meeting

Powergrid informed that the line up to Indian boarder is ready and it is in anti theft charge from Alipurduar end.

2. STATUS OF 400KV DIKCHU- RANGPO S/C LINE

Deliberation in the meeting

In 146th OCC, TPTL informed the construction of the line has been completed and the line is ready for charging.

OCC advised TPTL to submit the first time charging documents for their line segment to ERLDC. OCC advised concern bay owners (Dikchu and Powergrid) to submit the first time charging documents to ERLDC.

Meeting ended with vote of thanks to the chair

Annexuse-A

Participants in 146th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 10:30 hrs

Date: 15.06.2018 (Friday)

| SI No | Name | Designation/ Organization | Contact Number | Email | Signature |
|----------|------------------|------------------------------|-------------------|--|-------------|
| 1 | J. Bandyopadhyay | Member Secretary ERPC | 9432326351 | mserpc-power@gov.in | Joesdan Kan |
| 2 | P. Mukhopadhyay | ED, ERLDC | 9869438073 | pmukhopadhyay@posoco.in | Market. |
| 3 | G. Mitne | DGM, ER WC | 9831297392 | gordmithe @ posoco. in | A |
| 4 | SURATIT BANERJEE | DAM, ERLDL | 9433041823 | surgit baneyes Operero. in | · Mari |
| 5 | S.K. HAZRA | DEM, pendicipan | 9433041805 | SKhesma Benepair Co | m |
| 6 | S. W. SINGH | Dam / POWERCRIE | | Singhand powergrilland | |
| 7 | H.S. Saha | NITPE Blog | 9493195251 | hisaline matherian | CAN) |
| В | R.P. Singh. | KBUNL | 9431011366 | ramparixsha@ rediffmail.com | duly |
| 9 | B. Pour | CE-ISLDC | 9903243402 | bpom, duc @smi. | Rom |
| 10 | Ango Rai | Morroya, BALL | +975 77215415 | mageratores esqual tem | ,6 |
| 11 | Krishna kum | or EE/1HP Kh | Hen +975/3626 | 200 Krishnak Chattan | hong men |
| 12 | Jamesayla | System sporate | +9x79205702 | 10 300000000000000000000000000000000000 | are. |
| 13 | Biplat Challeges | 6 /20 | 9224857101 | Eight. Castiyaa toh | BALL |
| 14 | -AMIT BISHUNS | Str. Engineers Electrical | 9583040387 | THE ROOM IN SECTION AND THE PARTY AND THE PA | Jan Ber |
| 15 | Lalit Mohan d | Manager (TUL) | (P223EP177 | later anchar and interior | Man |
| 16 | 4 Kun | Som (Tor) | 9910413781 | skuma Cterstania com | |
| 17 | SKBHOWMICK | STUP, TOTL | 9958008265 | swapan.b@tvptloc | 1.11 |
| 18 | RAT PROTIN | 59 ERLOC | 990331959/ | rayportine posoco.in | 12- |
| 19 | Sometime of | IX Mar. | 9432013/72 | Salay-savav@gnav.Cu | f_ |
| 20 | Chandan Massicia | San Engr. | 9007057660 | Chandun-marica @ Pesoco .~ | firstend. |

Participants in 146th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 10:30 hrs

Date: 15.06.2018 (Friday)

| SI No | Name | Designation/ Organization | Contact Number | Email | Signature |
|----------|-------------------|------------------------------|--------------------|---------------------------|-----------|
| 21 | Rup Nasayan | BPSO BPC, BHUTH | +975 V 17954948 | rupnarayan@bpc.b | Call . |
| 22 | kame | ec, 09pe | राम्य १८३० व्या | Karmalis a general con. | ant |
| 23 | Tshedon no | SOUTHDANNE | 1975 775515-87 | sayszna@gnail.com | 4/1 |
| 24 | ome Nath Kurre | L AElogoe | +975 | Kuiketkup@ gmot. | // |
| 25 | PRAMAY KARKI | 27 4 4 Aug 27 | 9647874671 | 0 | 6 1 4 |
| 26 | NAMIYAL TASHI | OE/ Fellin | 7797672745 | | VA. |
| 27 | A.K. Dalla. | AGM (EEMALE | 9431218304 | dalloak @ Mpc G w | anas |
| 28 | A. U. Chatopalyon | Aun/ofm) | 9434038978 | alchattofally | Thewan |
| 29 | S.N Ghosh | Danleema) | 2471006034 | Somenatinghose a stochosi | Janes, |
| 30 | S-K-MISHINA | NTPC , ET-11 | 9438233207 | Skanisha or artpe | and |
| 31 | A. W. Pal. | ELLOZ POSÓLO | 9831339599 | augul@ foscer in | And I |
| 32 | 5 . KONAR | CM, ERLDE | 9436335370 | Kenar-sofesoco, in | gover |
| 33 | D. Majumder | Sin Engineer ERLDE | 9903593500 | debajyoti ti @ ymail.com | र्वेब- |
| 34 | D.K. Baur | EE (comma) EA | C 9883617236 | ecomiss pago | 1 1 |
| 35 | B. SARKHEL | Consultant | 9433065724 | | Sole |
| 36 | S.P. Datta. | ALM, ERPC | 943306702 | spanth & reditters | SPI |
| 37 | Abhisher Kumon | SLDC, BOS PTEL | 9730213191 | abhi joyslife@gmailro | Abhour . |
| 38 | R.K. Tandey | SLD C, SUSNL Renchi | 9934138298 | K-rayeth. p. gmail. com | Reduning |
| 39 | P. K. WierIn | SLDE, WASETEL | 9934910030 | ce whelp a gamilio | 100 |
| 40 | A Karnekar | CECCED), | 9494910019 | chat @wbsetelin | 2 |

[&]quot;Coming together is a beginning, staying together is progress, and working together is success." -Henry Ford

Participants in 146th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 10:30 hrs

Date: 15.06.2018 (Friday)

| SI No | Name | Designation/ Organization | Contact Number | Email | Signature |
|----------|-----------------------|------------------------------|-------------------|---------------------------|----------------|
| 41 | Prectorm. Banungai | SE WESTERL | 9432140765 | precbant 2 @ grain | 1hr |
| 42 | N-9- Sucha | Dam , WEPDA. | 8336907700. | ngosto Cospelation | nglan |
| 43 | Astunava Sen Eupta | PAM/CESC | 983)802682 | | 4 |
| 44 | Pulan Norty | DGH(OS)/HEL | 833506726 | | yin so |
| 45 | T. K. MOKHOPADINA | 5m/0/07L | \$370881407 | tapecmenji @ egmanta | Leulan |
| 46 | Tenaunta Saha | St GM - SLDE | 9438907 | une por cho con | Mar |
| 47 | AK Mishro | PLD SLOX | 9438907402 | cld_sideQsideonisa.org.in | Tolo |
| 48 | PRASHANT MUMAR DAS | S. M (EL) GRIPCE U.S. | 9438907409 | presnontk_des @gahw.ora | Q |
| 49 | H.P. Mahapatra | G.M(EI) OHPC | 7328840015 | Apan. DApa Oganis.com | Ale |
| 50 | S. K. Maharana | anxo | 9428591100 | Janjitmaharma 1100 gmml | 0 |
| 51 | S. Bonegue. | SE(E) / WBSETCL | 9434910093 | evkbanensee @yahre.com | Bamir |
| 52 | C. K. Halden | ACE WBSLDC | 94349 10379 | 7112 | -AX |
| 53 | S.M. JLA | CONSULTANT- ERPC | 9874738913 | | 8492 |
| 54 | Roderds kur Singly | DM7cL | 7673034014 | roushkomer. siept@infer | Park Sept |
| 55 | Vikoly Rumar | BSPTEC | 283157484 | vikarlasit o3 segual - | - Silvardi Ram |
| 56 | B.B BLE'/ | Ellox | 9457551830 | 1711 -100-10 | Tred |
| 57 | P. P. Jana | ERPL | 9376198991 | this constant and and | Dime! |
| 58 | A.De. | ERPC | 9681932106 | alixpantha@gmailca | Almbe |
| 59 | T.K. Mohipiky | ERLUC | EZ81405EH | trmohapatisce posoco-in | TIL |
| 60 | S.K. Naels | 3 | 9437962169 | ormudishae paragaja | |

[&]quot;Coming together is a beginning, staying together is progress, and working together is success." –Henry Ford

Participants in 146th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata Time: 10:30 hrs Date: 15:06:2018 (Friday)

| Sl No | Name | Designation/ Organization | Contact Number | Email | Signature |
|----------|----------------|------------------------------|-------------------|------------------|------------|
| 61 | Biswegit Monda | BRLOC St. Engr. | 9903329271 | biswayit. monday | 1920 Vin |
| 62 | P. MOSH | ER-III On my | 9434748263 | parther divising | Pom |
| 63 | | | | | |
| 64 | | 11 | | THE TAX | |
| 65 | | | | | |
| 66 | 1 | | | | |
| 67 | | | | | |
| 68 | | | | | |
| 69 | 51 P | -Managara | 2016 | Haller Show | (8 - r.)4. |
| 70 | 771 Feb. 3 | -(01/31/11) | 0.7 | | |
| 71 | | | | | |
| 72 | | | | | |
| 73 | | | | | |
| 74 | -a 910 m | | -riessin | THE THE THEFT | Tenang I |
| 75 | - | - 2 | | | (SL) |
| 76 | | | | | |
| 77 | | | | | |
| 78 | | ray a x | 100 10 | | |
| 79 | | V., . 1 | | ja ja | |
| 80 | | | | | |

[&]quot;Coming together is a beginning, staying together is progress, and working together is success." -Henry Ford

No.23/70/2017-R&R Government of India Ministry of Power

> Shram Shakti Bhawan, Rafi Marg, New Delhi, the 5th April, 2018

To

- Principal Secretaries/Secretaries (Power/Energy) of all State Governments/UTs.
- CMD/MDs of State Gencos/ Discoms
- 3. CMD of all CPSUs under administrative control of Ministry of Power

Sub: Flexibility in Generation and Scheduling of Thermal Power Stations to reduce emissions.

Sir/Madam,

The concept of Flexible utilization of coal as introduced by the Central Government in year 2016, allows the use of coal within its basket in optimal manner. This avoids unnecessary coal transportation and reducing the power generation cost. In a similar manner, it is has been decided that there should be some flexibility in Generation and scheduling of Thermal Power Stations so that Discoms are able to meet their RPO without facing any additional financial burden.

- 2. Further, due to large scale integration of Grid connected renewables which inherently has huge variability of generation, there is a need of balancing power to maintain security and stability of Grid. Under present regulation, such balancing power is to be arranged by the Discoms. Hence, the responsibility of arranging balancing power requirement will now also be shared by the Generators.
- This flexibility will provide the Power Generators an opportunity to optimally utilize generation from RE sources and also help in reducing emissions and it shall also facilitate further RE Capacity addition.
- The detailed mechanism of allowing Flexibility in Generation and Scheduling of Thermal Power Stations is enclosed at Annexure.
- All stakeholders are requested to take necessary action in this regard.
- This issues with the approval of Hon'ble Minister of State (I/C) for Power and New & Renewable Energy.

Enclosure: as above

Yours sincerely,

(Ghanshyam Prasad) Chief Engineer Tel. No. 011-23710389

Copy to:

- 1. Secretary, Ministry of New & Renewable Energy, New Delhi
- 2. Secretary, Ministry of Coal, New Delhi
- 3. Chairperson, CEA, New Delhi
- 4. Secretary, CERC, Chanderlok Building, Janpath, New Delhi
- Secretaries of all State Electricity Regulatory Commissions/JERCs Copy for information to:

PS to MOSP (I/C), PPS to Secretary (Power), All Joint Secretaries/EA/ CE (OM&RR) and Directors/ DS, MoP

Flexibility in Generation and Scheduling of Thermal Power Stations to reduce emissions.

A. Background

The Government of India has given commitment that as part of Nationally Determined Contributions (NDC), India would have 40% of its installed capacity from non-fossil fuel sources by the year 2030.

In pursuance of this, as per provisions of Tariff Policy issued on 28th January, 2016, Ministry of Power has issued 'Long term growth trajectory of RPOs' for Non-solar as well as solar sources, uniformly for all States/UTs, initially for three years from 2016-17 to 2018-19.

| Long Term trajectory | 2016-17 | 2017-18 | 2018-19 |
|----------------------|---------|---------|---------|
| Non-Solar | 8.75% | 9.5% | 10.25% |
| Solar | 2.75% | 4.75% | 6.75% |
| Total | 11.5% | 14.25% | 17,00% |

In the year 2016, Government has introduced the concept of flexible utilization of coal. Earlier, each power plant owned by a company had to sign Fuel Supply Agreements (FSA) for supply of coal from a specified coal mine. The policy for flexible utilization of coal allowed a company to use coal within its basket in the most optimal manner such that unnecessary coal transportation is avoided and lower costs of power generation could be passed on to the beneficiary states.

In a similar manner, there should be some flexibility provided in electricity Generation so that Discoms are able to meet their RPO without facing additional financial burden.

B. Need for allowing flexibility in Generation

Due to larger procurement of Renewables, the issues being faced by the stakeholders including Discoms which need to be addressed inter-alia are:

i) Need for balancing power: RE Generation sources have the benefits of cleaner energy sources but Solar and Wind energy is available only during some part of the day and is generally infirm in nature. This necessitates the user of RE energy

Brok

(mainly Discoms) to make arrangements for balancing power to meet the power requirement when RE energy will not be available. Thus, due to large scale integration of Grid connected renewable which inherently has huge variability of generation, there is a requirement of balancing power which matches with such variations so that the security and stability of Grid is maintained. Under present regulation, such balancing power is to be arranged by the Discoms.

ii) Additional financial burden to Discoms to meet RPO: Most of the states already have adequate PPA. In order to meet the RPO, Discoms will have to tie up additional RE power which will pose additional financial burden on them.

Thus, considering the impact of new environmental norms on thermal power generation capacity, energy storage capability of Hydro stations, infirm nature of RE Generation sources, balancing power requirements by Discoms and the benefit of Renewable Sources of energy in reducing environmental emissions, there is a need to provide flexibility to the Generating Stations to generate RE power and supply power under existing / future contractual agreements. Discoms will have flexibility to procure RE power within their existing PPA and meet their RPO.

C. Flexibility to Generating company

The generating company shall have the flexibility of using its Thermal power or renewable power to meet its scheduled generation from the specific thermal generating station. This flexibility will provide the Power Generators an opportunity to optimally utilize generation from RE sources and also help in reducing emissions. Beneficiaries of the Power will also get the firm power including Renewable power, which will help them to meet their RPO obligations and also the responsibility of arranging balancing power requirement will be shared by the Generators.

D. Proposed Mechanism for allowing Flexibility in Generation

 Any generating company having coal/lignite/gas based thermal generating stations, may establish or procure renewable energy generating capacity anywhere in the country either at existing stations or at new locations.

But

 The generating companies would be allowed to utilize such renewable capacities for supplying power against existing commitments to supply the power from thermal station(s) anywhere in India.

iii) Scheduling and commercial mechanism

- a. Declared Capacity (DC) shall be declared by the existing Thermal generating station as per the extent regulations. Once the schedule for the next day is received, the generating station shall have the flexibility of using its Thermal power or the generating company owned renewable power or procured RE Power to meet its generating station scheduled generation. Thus the RE power shall replace the Thermal power of any of the thermal generating station of the generating company, wherever found feasible by the generating company.
- b. The sum total of all the power actually supplied from various generating sources shall be considered for DSM purposes.
- c. The Declared Capacity of the Thermal Generating station shall be with respect to the terms of the PPA and the availability of primary fuel. The declared capacity of thermal generating station cannot be based on the availability of the additional RE power.
- d. The changes in the regulation, if any, required for implementation of the above scheme shall be done by the appropriate Electricity Regulatory Commission.
- e. The Power from RE stations would be supplied to the Beneficiaries at a Tariff which shall be equal to Energy Charge Rate (ECR) of the power station which was originally scheduled. This would include the balancing cost and the tariff risk to be taken by the Generator.
- f. The net gain realized, if any, from supply of RE power in place of thermal power under existing PPA shall be passed on to the beneficiary appropriately considering balancing power support provided and the risk taken by the

Bud

generator. For this purpose, at the end of the year, truing-up can be done by the Appropriate Commission and the net gain, if any, earned by the Generator shall be shared with the beneficiary in the ratio of 50 (Beneficiary): 50 (Generator).

- g. This shall not be applicable to RE Projects for which PPAs have already been signed by the Generator and Beneficiaries.
- h. The extra generation capacity available from existing thermal station(s) corresponding to the renewable generation capacity and up to the existing contracted capacity would make available additional power which at the time of need can be utilized by the beneficiaries.
- iv) RPO/RGO Power which is generated from such renewable energy shall be eligible for any cross subsidies notified by the Government from time to time including waiver from ISTS transmission charges and losses as per notification from the Government. Such renewable energy procured by the beneficiaries shall qualify towards meeting their Renewable Purchase Obligations (RPO obligations). Further, such renewable power in capacity terms shall also qualify for Renewable Generation Obligations (RGO obligations) for the generators as envisaged in the Tariff Policy and as and when notified by Government of India.

v) Deviation Settlement Mechanism (DSM)& Scheduling-

For the purposes of flexible scheduling and operation of thermal stations, while giving the DC of the existing thermal station the generator shall not take into the account the forecast of generation from renewable component. Once the schedule for specific thermal generating station has been received, then depending upon the forecast available for RE energy, that Generating Station shall supply power either from existing thermal station or combination of thermal and RE power to meet its scheduled power as defined earlier in this scheme. Thus the deviation, if any, shall be made applicable to the scheduled generation from thermal station and sum total of actual generation from thermal/RE sources. No DSM shall be payable/receivable by the generating station if it is able to meet its scheduled generation by supplying thermal and RE power in any ratio.

But

- vi) Procurement and supply of RE power by the Generator for supply under this scheme shall be allowed and necessary License required need to be fulfilled by the respective Generating Company.
- vii) The proposed scheme shall be applicable only for the Thermal projects developed / being developed under Section 62 of the Electricity Act, i.e., "Regulated Tariff based Projects".
- viii) Use of flexibility in generation as proposed in the scheme is optional and only if found feasible Generator can use power from RE sources to replace its existing thermal power to meet its schedule generation from thermal power station.
- ix) Changes, if any, required in the Regulation for implementation of the above scheme shall be made by the appropriate Electricity Regulatory Commission.
- x) Central Electricity Authority shall monitor the implementation and suggest changes, if required, in the scheme to the Central Government. In doing so, CEA may consult MNRE, POSOCO, CERC, Discoms and other stake holders.
- CEA shall also suggest a road map for implementation of the scheme at the Generating company level i.e a change from Station wise flexibility to company-wise flexibility

BA





146th OCC Meeting





At ERPC, Kolkata 15th June, 2018

ER Grid Performances

FRI DC POSOCO

Highlights for the month of May-18

Frequency Profile

Average Freq:- 49.95 Hz Avg FVI: - 0.074 Lowest FVI:- 0.020

Max- 50.22Hz on 12th May' 18 Min- 49.56 Hz on 26th May' 18

71.16% of the time freq was with in IEGC Band

Whether any ADMS operation at DVC and West Bengal on 26th May'2018?

Peak Demand

ER: 22031 MW on 21st May 2018 at 20:46 hrs % Growth in Average Demand Met w.r.t. last year: 8.0%

BSPHCL: 4868 MW; ON 25/05/18 JUVNL: 1319 MW; ON 19/05/18 DVC: 3115 MW; ON 29/05/18 GRIDCO: 4785 MW; ON 24/05/18 WB: 8731 MW; ON 30/05/18 SIKKIM: 101 MW; ON 04/05/18

Energy met
Max. 480 MU on 30th May 2018
%Growth w.r.t. last year on Max
energy 4.39%

Avg. 438 MU in May 2018 %Growth w.r.t. last year on Avg. energy: 7.4%

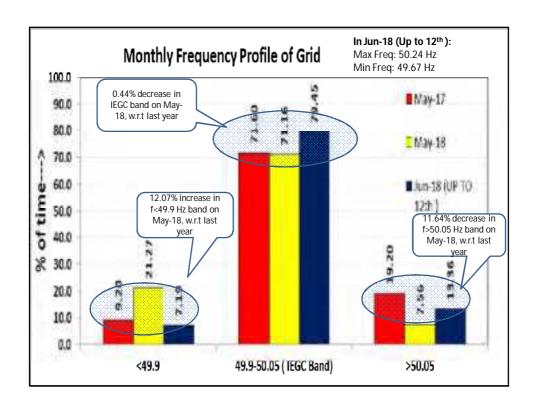
New Element

Generating Units-NIL

Open Access

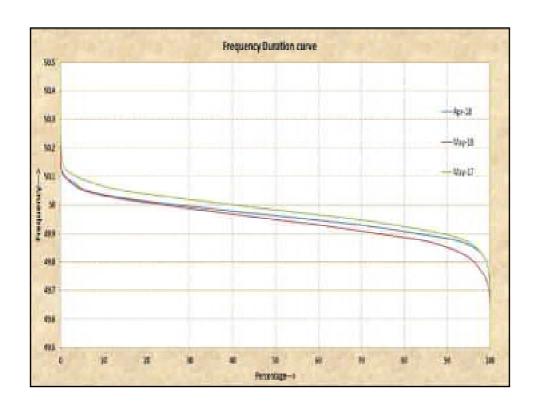
STOA transactions approved -362 nos.

Energy Approved-1048.3 MUs

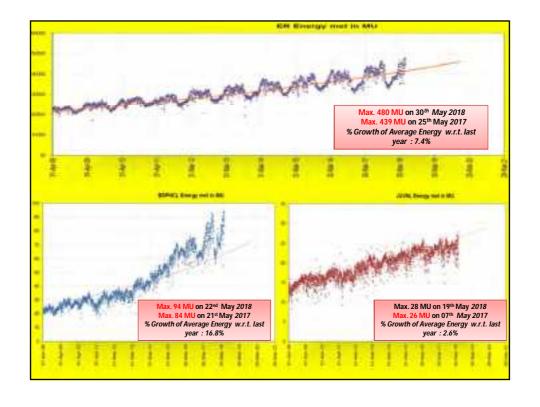


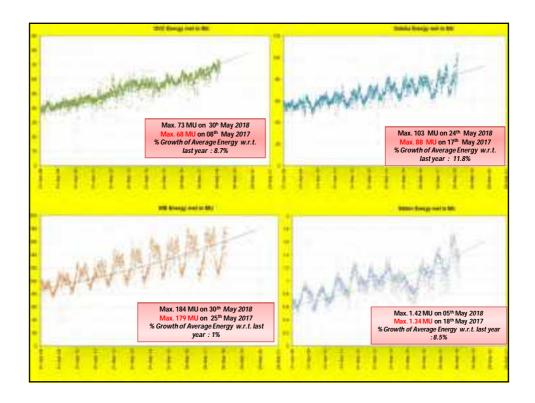
| SL NO | Element Name | Owner | Charging Date | Charging Time | Remarks |
|-------|---|---------|------------------|----------------------|---|
| 1 | 400/132 kV ICT-I at NPGC SS | NPGC | 5/4/2018 | 13:54 | |
| 2 | 220kV Alipurduar(PG)-Alipuduar(WB)-II | WBSETCL | 5/22/2018 | 17:53 | Loaded on 06/06/18 at 16:04hrs. |
| 3 | 315MVA, 400/220/33KV ICT#2 at DSTPS | DVC | 5/23/2018 | 13:37 | ldle charged from 400kv Sid & 220kV side not constructe yet |
| 4 | 220kV Darbhanga(DMTCL)-laukhai l | BSPTCL | 5/23/2018 | 18:42 | • |
| 5 | 220kV Darbhanga(DMTCL)-Laukahi II | BSPTGL | 5/23/2018 | 18:48 | |
| 6 | 132kV LILO of Dhenkanal-ICCL Line | OPTCL | 5/23/2018 | | Charging Time and LILO poi may be updated |
| 7 | 132/33kV, 2X40 MVA, Khuntuni GIS S/s | OPTCL | 5/23/2018 | | Charging Time may be updated |
| 8 | 220kV Alipurduar(PG)-Alipuduar(WB)-I | WBSETCL | 5/31/2018 | 15:41 | Loaded on 06/06/18 at 16:04hrs. |
| 9 | 220/132KV 160MVA TR-1 at Alipurduar (WB) | WBSETCL | 5/31/2018 | 17:26Hr:(HV SIDE) | VIA 220kv MB#1 |
| 10 | 220/132KV 160MVA TR-2 at Alipurduar (WB) | WBSETCL | 5/31/2018 | 17:09Hr.(HV SIDE) | VIA 220kv MB#2 |
| 11 | 220 KV BUS COUPLER at Alipurduar (WB) | WBSETCL | 5/31/2018 | 15:54Hr. | |

| Commissioning list of transmission element and generators: May-2018 | | | | | | | | |
|---|---|---------|------------------|------------------|-----------------------|--|--|--|
| SL NO | Element Name | Owner | Charging Date | Charging Time | Remarks | | | |
| 12 | 132/33kv 31.5MVA TR#3 Chanditala | WBSETCL | 04,05,18 | 14:50Hr | Charged(HV). | | | |
| 13 | 132/33kv 31.5MVA TR#3 Chanditala | WBSETCL | 05.05.18 | 15:02Hr | Loaded | | | |
| 14 | 132/33 KV 50MVA TR#3 C K Road | WBSETCL | 25/05/2018 | 19:00Hr | CHARGED(HV). | | | |
| 15 | 132/33 KV 50MVA TR#3 C K Road | WBSETCL | 26/05/018 | 14:20Hr | LOADED. | | | |
| 16 | 132KV N.BISNUPUR- INDUS#2 (R.L 37.858KM) | WBSETCL | 30.05.2018 | 17:05HR. | CHARGED from N.BISH | | | |
| 17 | 132KV N.BISNUPUR- INDUS#1 (R.L 37.858KM) | WBSETCL | 30.05.18 | 17:54Hr.(N.BISH) | CHARGED at BOTH END | | | |
| 18 | 132KV N.BISNUPUR- INDUS#1 (R.L 37.858KM | WBSETCL | 31.05.18 | 20:02 Hr.(INDUS) | | | | |
| 19 | 132KV GIS M.B.#1 at INDUS 132/33 kV SS | WBSETCL | 31.05.18 | 20:02HR. | VIA N.BISH-INDUS#1 | | | |
| 20 | 132KV GIS M.B.#2 at INDU\$ 132/33 kV SS | WBSETCL | 31.05.18 | 20:45 Hr. | VIA 132KV Bus Coupler | | | |
| 21 | 132/33KV 50MVA TR# 1 at INDUS 132/33 kV SS | WBSETCL | 31.05.18 | 20:38/20:42 Hr. | 33KV bus charged | | | |
| 22 | 132/33KV 50MVA TR#2 at INDUS 132/33 kV SS | WBSETCL | 31.05.18 | 20:50HR. | Both HV & LV | | | |

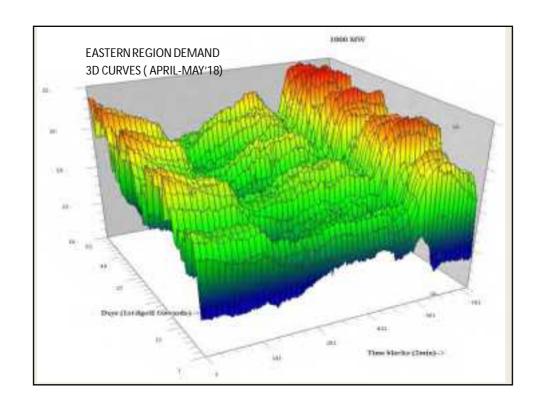


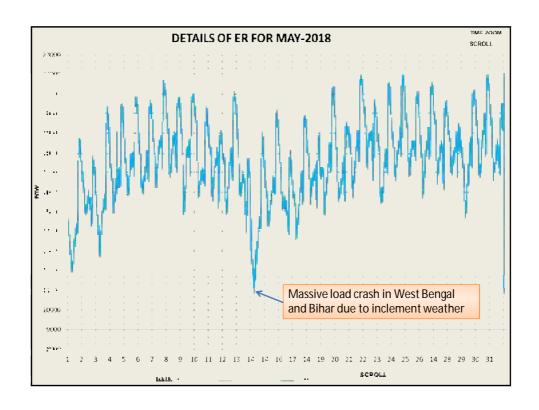
| So Far Highest Demand | | | | | | | | | |
|-----------------------------------|----------------|-----------------------------|--|-----------|--|--|--|--|--|
| Constitute | Demand (in MW) | Date | | Time | Dmd met on 21 st May'18 (max dmd met day) | | | | |
| Bihar | 4868 | 25-May-18 | | 21:26 | 4794 | | | | |
| DVC | 3333 | 10-Apr-16 | | 20:57 | 2901 | | | | |
| Jharkhand | 1319 | 19-May-18 | | 20:58 | 1304 | | | | |
| Odisha | 4785 | 24-May-18 | | 19:37 | 4660 | | | | |
| W. Bengal | 8731 | 30-May-18 | | 23:16 | 8195 | | | | |
| Sikkim | 117 | 28-Oct-16 | | 18:59 | 86 | | | | |
| ER | 22040 | 07-June-18 | | 20:47 | 22031 | | | | |
| So Far Highest Energy Consumption | | | | | | | | | |
| Constitute | Energy consump | Energy consumption (in MUs) | | Date | Dmd met on 21st May'18 (max dmd met day) | | | | |
| Bihar | 96.4 | 96.4 | | 6-June-18 | 91.4 | | | | |
| DVC | 75 | 75 | | 3-Mar-17 | 64.6 | | | | |
| Jharkhand | 27.8 | 27.8 | | 9-May-18 | 24.4 | | | | |
| Odisha | 103. | 103.5 | | 4-May-18 | 90.7 | | | | |
| West Bengal | 184 | 184 | | 0-May-18 | 165.9 | | | | |
| Sikkim | 2.1 | 2.1 | | 7-Dec-17 | 1.5 | | | | |
| ER | 480 | 480 | | 0-May-18 | 446 | | | | |

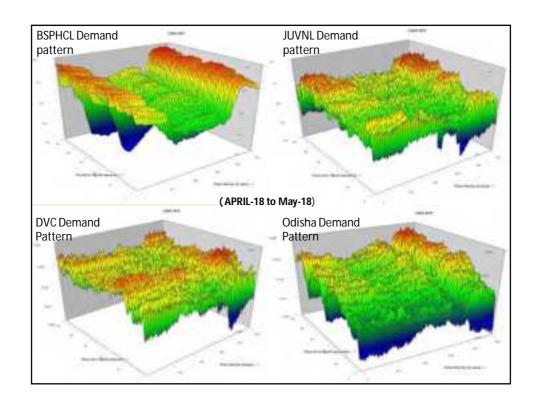


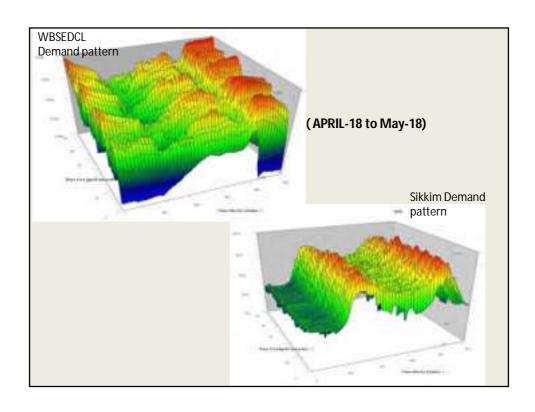


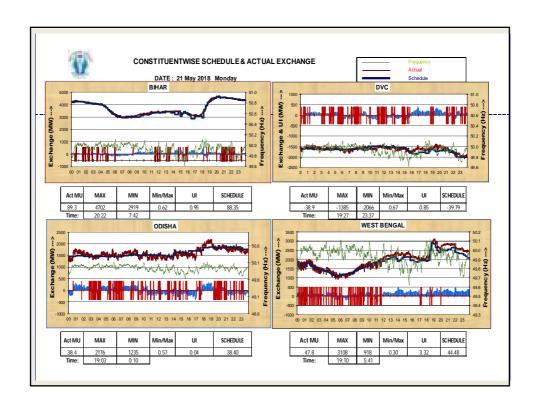
3D VIEW OF ER DEMAND PATTERN (APR-18 to May-18)

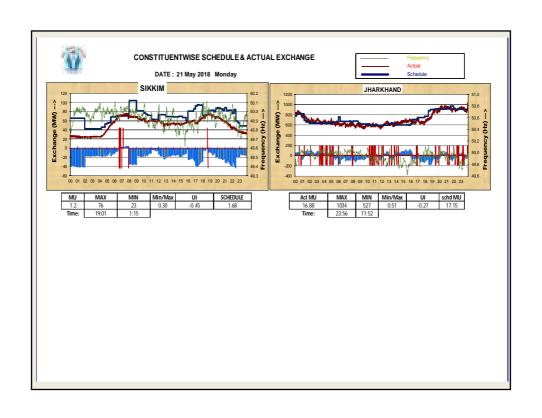


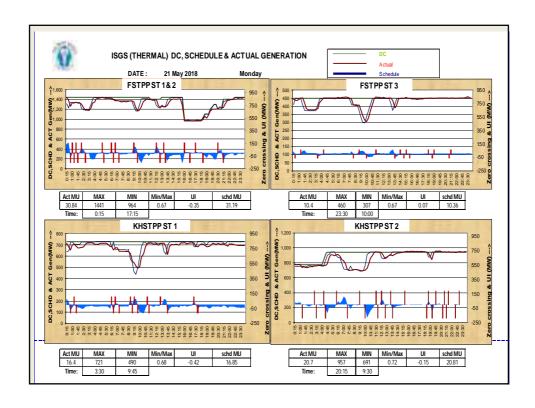






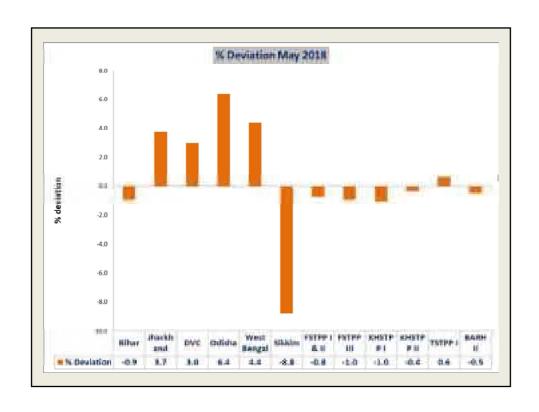


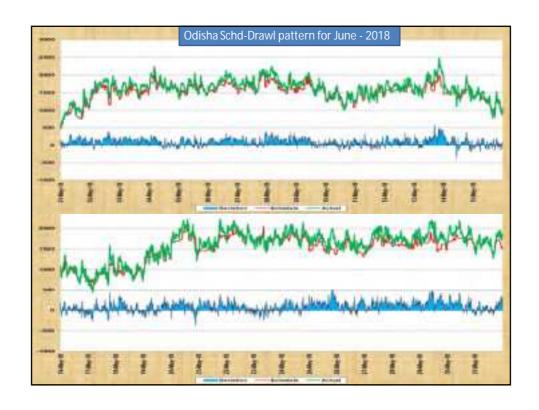


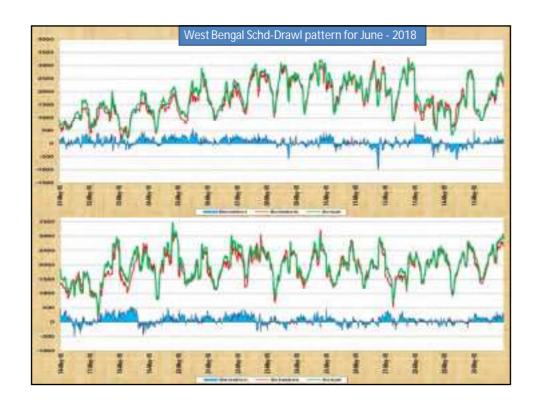


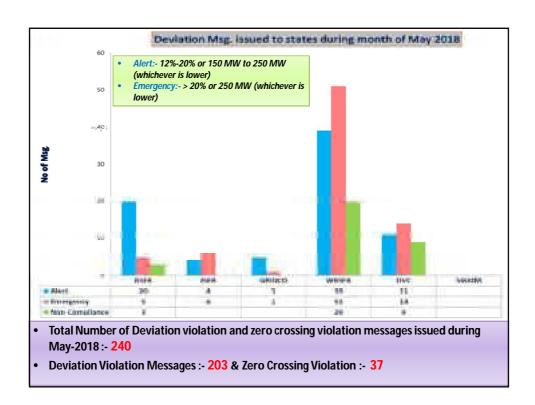
Over Drawl / Under Injection by ER
Entities
Non-compliance of direction issued by
SLDC

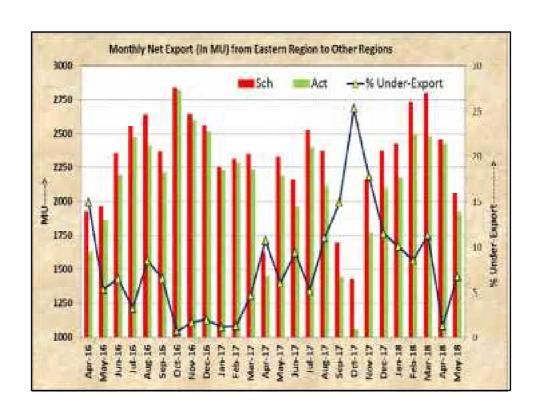
| | May-2018 | 3 Sched | dule Vs A | ctual Draw | /I |
|--------------|---------------|----------------|-------------------|------------------------|--------------------------------|
| | Schedule (Mu) | Actual (Mu) | Deviation (Mu) | Daily Avg. Dev (Mu) | % Deviation (Daily Average) |
| Bihar | 2582 | 2557 | -24 | -0.8 | -0.9 |
| Jharkhand | 561 | 582 | 21 | 0.7 | 3.7 |
| DVC | -1452 | -1408 | 44 | 1.4 | 3.0 |
| Odisha | 1121 | 1192 | 72 | 2.3 | 6.4 |
| West Bengal | 1352 | 1412 | 60 | 1.9 | 4.4 |
| Sikkim | 43 | 39 | -4 | -0.1 | -8.8 |
| FSTPP I & II | 791 | 785 | -6 | -0.2 | -0.8 |
| FSTPP III | 309 | 306 | -3 | -0.1 | -1.0 |
| KHSTPP I | 498 | 493 | -5 | -0.2 | -1.0 |
| KHSTPP II | 736 | 733 | -3 | -0.1 | -0.4 |
| TSTPP I | 655 | 659 | 4 | 0.1 | 0.6 |
| BARH II | 746 | 742 | -4 | -0.1 | -0.5 |

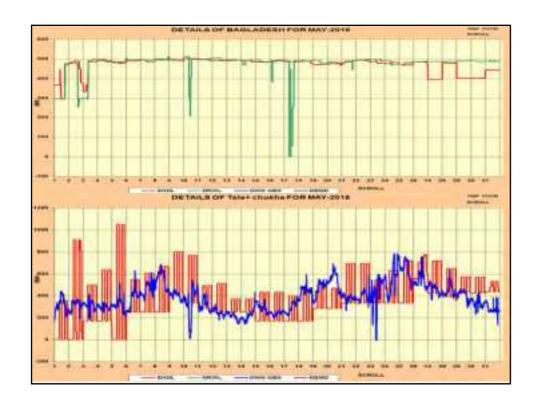




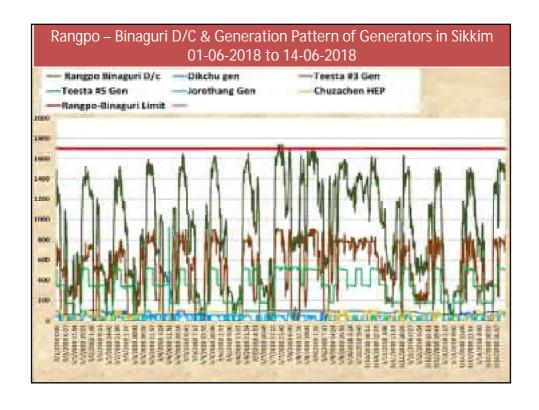




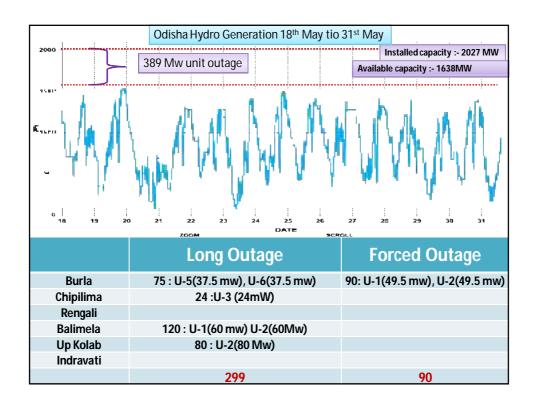


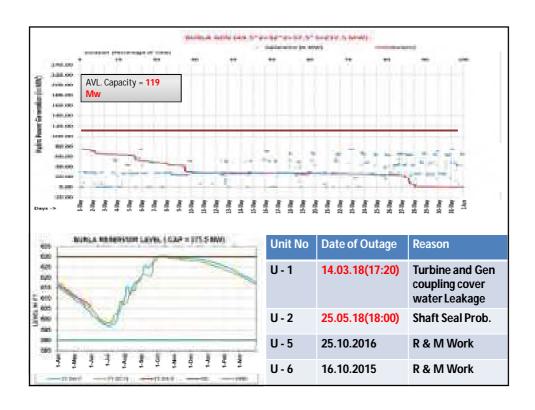


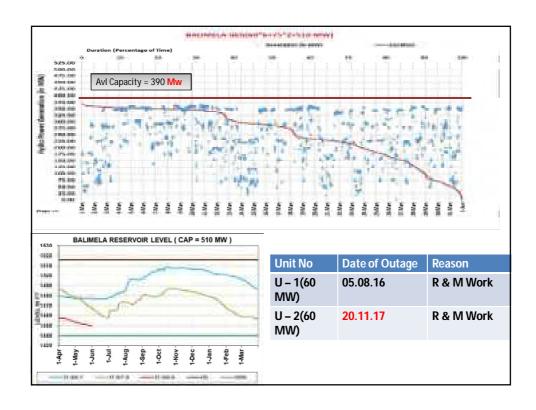
Rangpo – Binaguru – D/C loading Pattern

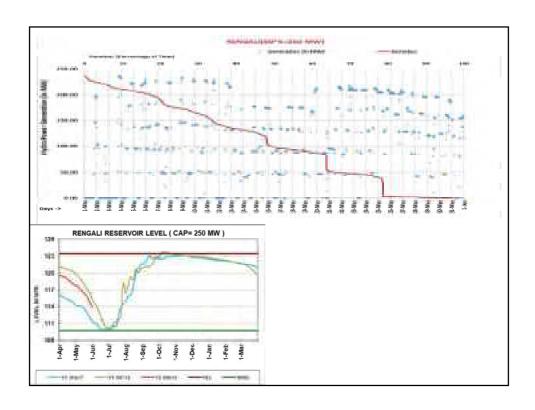


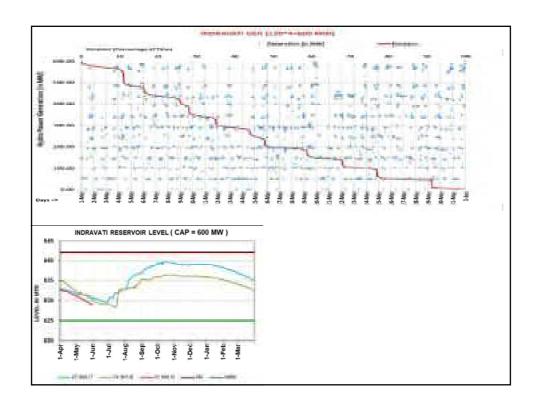
State Hydro Generators Performance

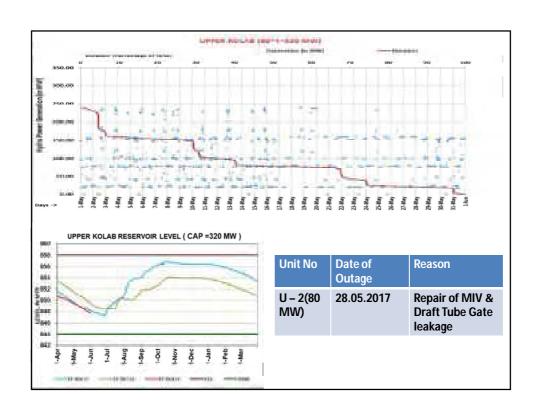


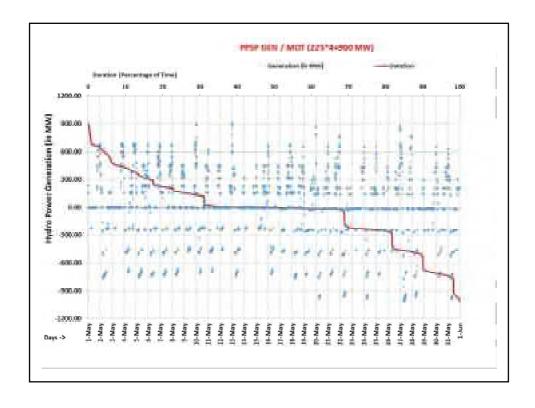












Transmission Constraints & Bottlenecks
Eastern Region

 400 KV MPL-MAITHON D/C (TOWER COLLAPSED AT LOC NO -63/64/6) is out of service from 10.05.18 & 5:21Hrs.

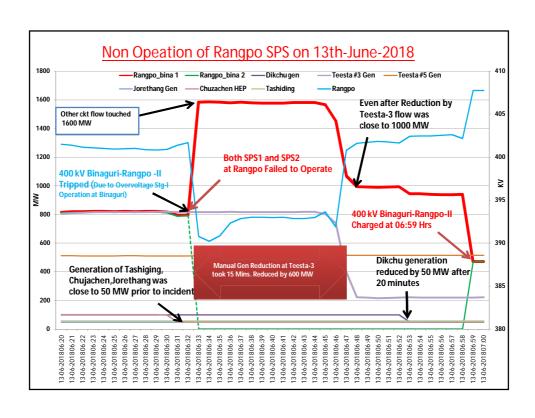
Evacuation Constraint: MPL generation evacuated through 400 KV MPL-RANCHI D/C. Tripping of any single circuit of 400 KV MPL-RANCHI D/C will aggravate the situation.

 400 KV MAIN BAY OF BIHARSARIFF-SASARAM CKT-II@BIHARSARIFF (INCOMPLETE OVER HAULING WORK) is out of service from 30/05/18 & 11:41Hrs.

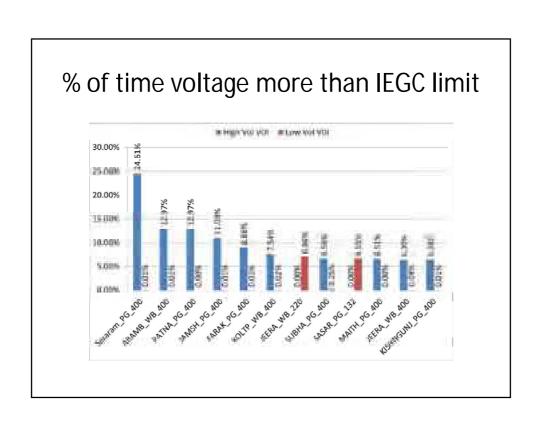
Constraint: The above line is charged through tie bay. The other element in dia is 125 MVAR B/R-I. Any switching operation of B/R leads to power interruption on 400 KV BIHARSARIFF-SASARAM CKT-II.

 315MVA ICT-I AT KOLAGHAT (BANK OF R PH BURSTED) out of service from 16/04/2018 & 17:05Hrs.

Constraint: The auxiliary power to units of KOLAGHAT is supplied through only other available i.e. 315MVA ICT-II. Any tripping of 315MVA ICT-II KOLAGHAT will lead to forced outage of units of KOLAGHAT connected to 220 kV Bus.



Statistics of VDI of various S/S in Eastern Region for May, 2018



Statistics of VDI of various S/S* in Eastern Region for May, 2018

| % of time | No of S/S having voltage higher than IEGC limit for | No of S/S having voltage lower than IEGC limit for | No of S/S having voltage not in IEGC band for |
|-------------------|--|---|---|
| 100% | 0 | 0 | 0 |
| >= 50% but < 100% | 0 | 0 | 0 |
| >= 30% but < 50% | 0 | 0 | 0 |
| >= 10% but < 30% | 4 | 0 | 4 |

^{*} For all S/S at 400 kV and above voltage level and selective S/S at 220 kV and lower level where voltage data were available in SCADA for considerable amount of time

MINUTES OF MEETING HELD AT THE OFFICE OF CHIEF GENERAL MANAGER (O & M) OPTCL, BHUBANESWAR ON 29TH DECEMBER'2014.

Meeting attended by: The list of participants is annexed.

Topic: The Special Protection Scheme for Islanding of IB Thermal Generating Units on system disturbance.

The Chief General Manager (O&M), OPTCL welcomed the participants and opined that the present form of islanding scheme need relook for effective islanding of IB TPS. Units. The present islanding scheme at 220/132/33kV Grid Substation Budhipadar was discussed by the participants. The present islanding scheme is adopted as per discussion held on 11th April'2014 at Aditya Aluminum Training Centre, Lapanga, Jharsuguda. As per the arrangement, the Islanding relay is installed in 220kV Bus Coupler Panel. The load & IB TPS lines are distributed evenly so that on bus fault on one bus the Islanding relay will decouple the buses & the IB generation will be diverted to healthy bus.

The representative of IB TPS taking part in the discussion said that in the present scheme, as the IB Units are still connected to the main system, may not survive due to gap in the load & generation in the loop. They suggested arrangement of 220kV Buses is to be made such that on the event of system disturbance, the load in one 220kV Bus becomes radial with IB generation. Hence, on system disturbance the IB Unit can be islanded with the radial loads and synchronized with main system after clearance of disturbance.

After detail deliberations, the Special Protection Scheme for IB TPS islanding at Budhipadar Bus, following decisions were taken.

1. Arrangement of Load in 220kV Bus of Budhipadar: BUS-1: KORBA 1 & 2, IBTPS 1 & 3, BHUSAN 1 & 2, RAIGARH, KATAPALLI 1 & 2, TARKERA 1 & 2, VAL 1 & 2.

BUS-2: IBTPS 2 & 4, AT 1 & 2, SPS, AAL 1 & 2.

- 2. Arrangement of Radial Load.
 - i. BUS-2 (220kV): lBTPS 2 & 4, AT 1 & 2, SPS, AAL 1 & 2.
 - 132kV Bus: Station Load (20MW)+Rajgangpur (80MW)+Brajrajnagar
 (50MW)+Jharsuguda (35MW)+Sundergarh+MCL+MSP; Total: 235MW

Luchapari

Parts

3. In the event of system disturbance and Islanding relay operation, command from Islanding relay will trip the following breakers to achieve islanding of IB TPS Units with radial load.

Budhipadar 220Kv Bus: Bus Coupler & IBTPS 1 & 3 connected to Non-islanded Bus.

Budhipadar 132kV Bus: Tarkera & Burla 1 & 2.

Tarkera 132kV Grid Sub-station: Rajgangpur 1 & 2.

4. Provision for disconnection of 132kV Tarkera-Rajgangpur ckts from Tarkera end to make Budhipadar-Rajgangpur 132kV line to feed Rajgangpur load radially is required. The following arrangement need to be made for above. The command from Islanding relay is to be transmitted through carrier channel to Tarkera Grid S/S to trip Rajgangpur 1 & 2 Circuit Breaker at Tarkera Grid S/S.

5. GM (Telecom), OPTCL informed that the carrier protection provision between 132kV Budhipadar & Tarkera is to be provided on priority basis.

6. The facility of transmitting signal through OPGW/Carrier link to IB TPS from Islanding relay to ramp the generation to match the load is to be provided.

7. Further, provision of the carrier protection (Permissive & Direct Trip) to all four number 220kV lines between Budhipadar & IB TPS needs to be made for selective tripping of the lines.

8. GM (Telecom) informed that the above provision (Sl. 6 & 7) can be made after laying of OPGW cables between Budhipadar Grid & IBTPS and installation & commissioning of end equipment thereof. OPGC is to ensure necessary cooperation in this regard.

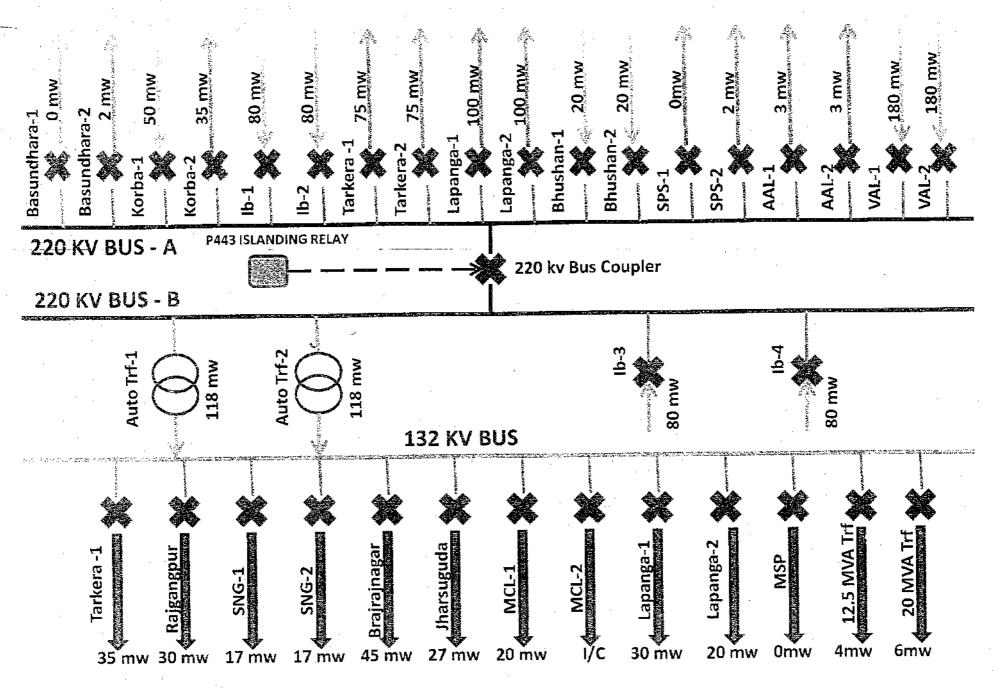
The above scheme can be adopted after installation of Carrier protection Scheme between 132kV Tarkera & Budhipadar, OPGW link & carrier protection (Permissive & DTT) for four number 220kV lines from IBTPS to Budhipadar Substation.

OPTCL/GRIDGO

Auguapahi (PKMA-HAPATRA)

CHK. Samontary)

21000

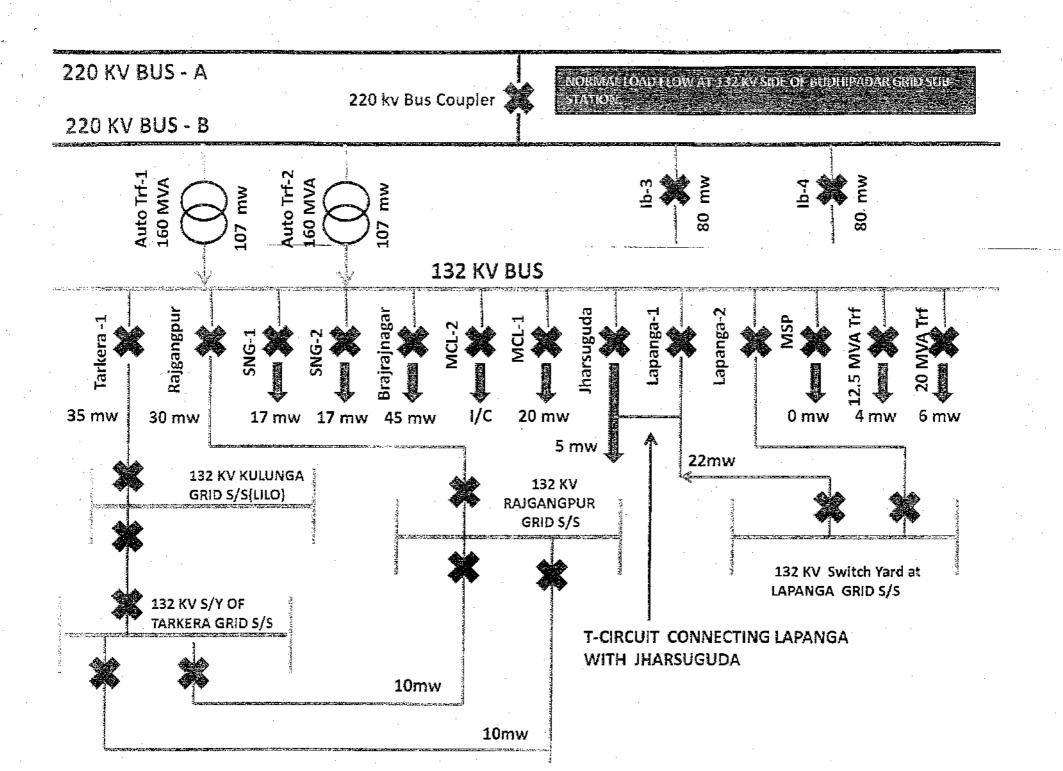


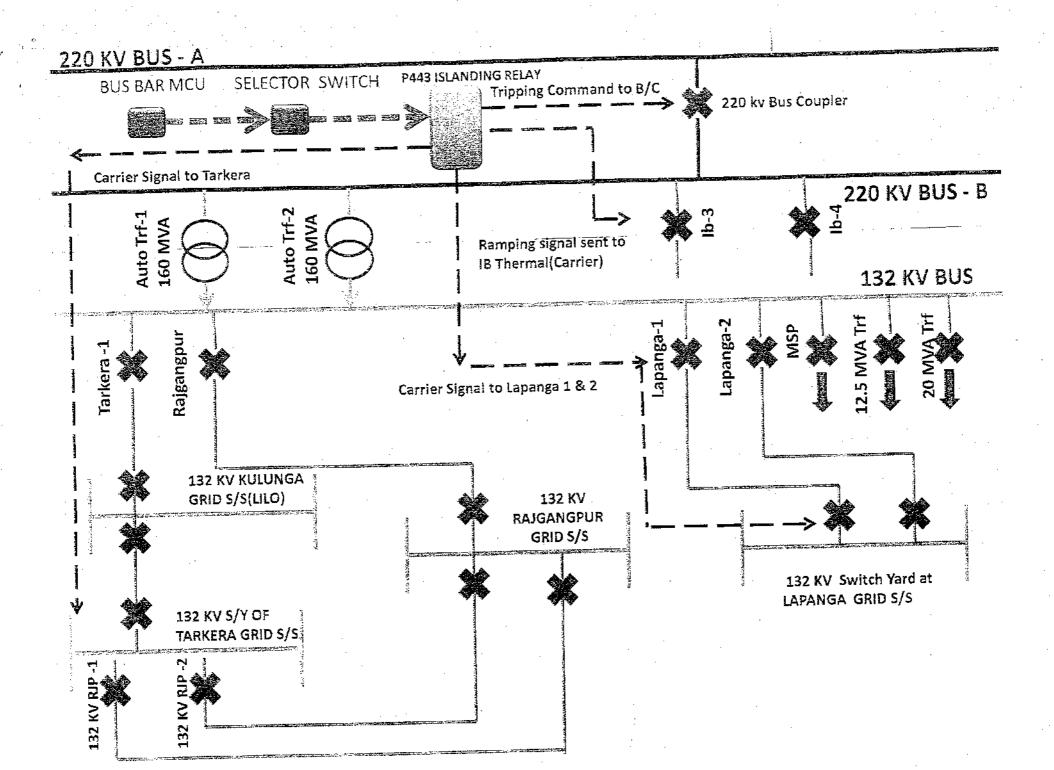
NORMAL LOAD ARRANGEMENT AT 220/132/33 Kv BUDHIPADAR GRID SUB-STATION

CONDITIONS FOR ISLANDING RELAY

- 1. DF/DT.
- 2. >HZ (Over Frequency).
- 3. <HZ (Under Frequency).
- 4. Over Voltage.
- 5. Under Voltage.

Note- 132 /33 Kv Kuchinda Grid S/s will get power from either Rajgangpur or sambalpur







OUTLINE FOR ISLANDING SCHEME OF KANTI TPS

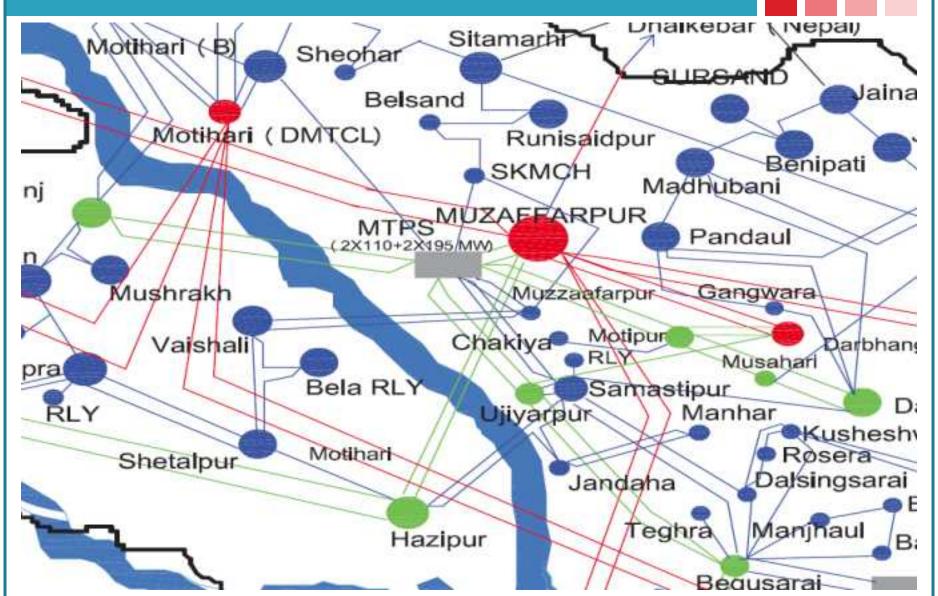
Introduction



- Kanti TPS has installed capacity of 610 MW (Stg-I: 2 x 110 MW + Stg-2: 2 x 195 MW) located near to load centres in north Bihar
- At present there is no islanding scheme in Bihar system.
- In 142nd OCC meeting it was decided to explore the possibility of implementing a power station islanding scheme for Kanti TPS

Network around MTPS (Kanti)





Lines normally kept open



- Following lines are normally kept open during normal operation
 - 132 kV Motihari-MTPS S/C
 - 132 kV Muzzafarpur-SKMCH S/C
 - 132 kV Sitamarhi-Runisaidpur S/C
 - 132 kV Shetalpur-Chapra D/C
 - 132 kV Shetalpur-Hazipur S/C

*BSPTCL may please confirm the above

Nearby substations and their loads

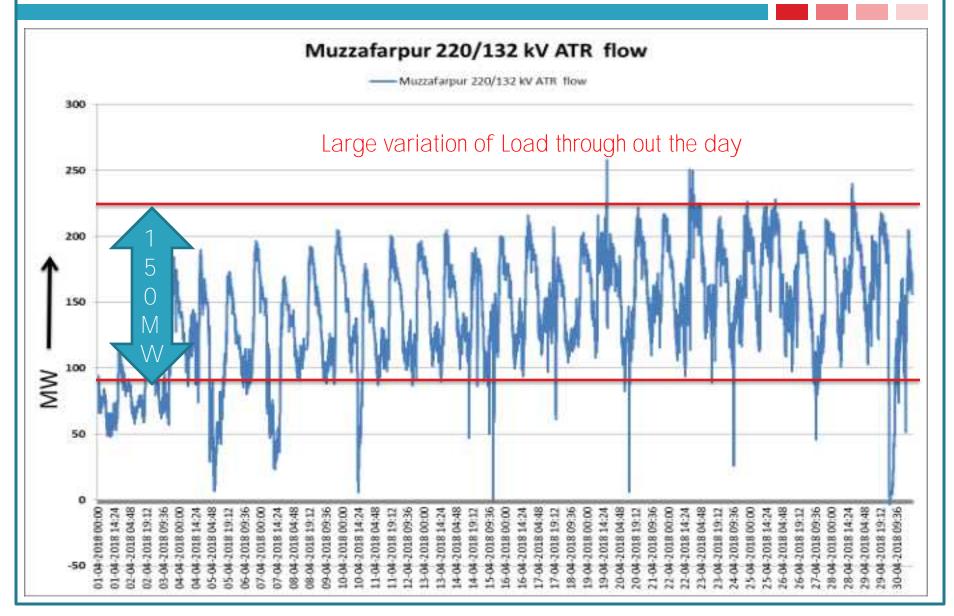


| SI Number | Name of Substation | Peak load | Off Peak Load |
|-----------|--------------------|----------------|----------------|
| 1 | Kanti TPS | 25(Plant load) | 25(Plant Load) |
| 2 | Muzaffarpur | 70 | 45 |
| 3 | Vaishali | 49 | 25 |
| 4 | Shetalpur | 25 | 15 |
| 5 | SKMCH | 57 | 45 |
| 6 | Belsand | 15 | 10 |
| 7 | Runisaidpur | 20 | 12 |
| | Total | 261 | 177 |

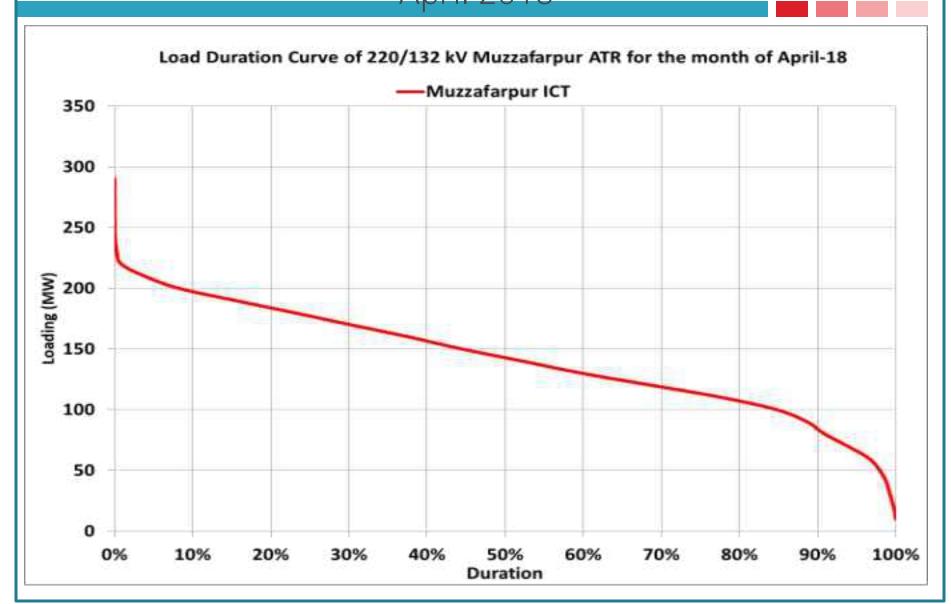
^{*}BSPTCL may please confirm the above load quantum

Flow through 220/132 kV ATRs of MTPS for April-18





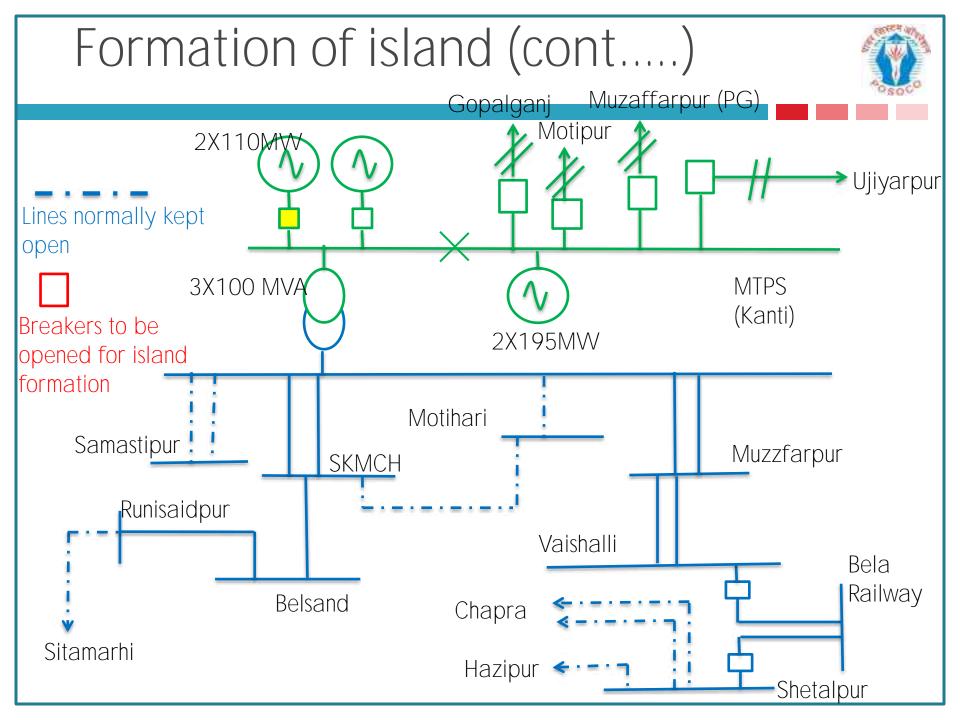
Load duration curve of 220/132 kV ATRs at MTPS for April 2018



Logic for formation of island



- □ If summation of power flow through 220/132 kV ATRs at MTPS is
 - Greater than 200 MW
 - Select both 195 MW units of KBUNL-2 for Islanding
 - In case one unit is out(planned or forced outage) select one 195 MW unit and one 110 MW unit(KBUNL-1) for islanding
 - In between 110 MW and 200 MW
 - Select one 195 MW unit of KBUNL-2 for Islanding
 - Is below 110 MW
 - Select one 110 MW unit of KBUNL-1 for Islanding



Formation of island



- Once the frequency falls to say 48.2 Hz the PLC at MTPS should give signal to appropriate C.Bs to open following lines to form an island with above loads, after 500 ms delay.
 - At 220 kV MTPS
 - 220 kV Muzaffarpur(PG)-MTPS D/C
 - 220 kV Ujiyarpur-MTPS D/C
 - 220 kV Gopalganj-MTPS D/C
 - 220kV Motipur-MTPS D/C
 - Units of KBUNL-1 and/or KBUNL-2 depending upon logic
 - At 132 kV Vaishali
 - 132 kV Vaishali-Bela Railways S/C
 - At 132 kV Shetalpur
 - 132 kV Vaishali-Bela Railways S/C
- □ Further PLC will continuously monitor both 195 MW and 110 MW units of Kanti and depending upon parameter of unit (i.e. Steam temp, pressure etc.) it will select the Suitable one for islanding

Load-generation balancing



- Islanding will trigger PMS (Power Management System). Post Islanding Power & Load will be calculated.
- ❖ If the mismatch between load and generation of one of the 195 MW units is within (±5%) then the other unit would be tripped. However if the mismatch is within (±5%) of the total generation, then both units would be kept on bar.
- If frequency of the island shoots above 51.0 Hz, then HP-LP steam bypass is to be activated from PMS via DCS.
- Immediately after the islanding, governor operation of the unit(s) of Stg-2 should change from load control to frequency control mode
- If frequency falls below 48.0 Hz, further load shedding within the island has to be carried out by tripping appropriate 33/11 kV feeders (say at 47.9 Hz). Since the power number of formed island will be very low a very precise load generation matching technique is needed

Some Typical numbers/facts



- □ U#3 CMC mode operation in practice.
- □ U#4 CMC mode operation to be commissioned.
- Droop characteristic setting for EHTC mode operation is 5%.
- Switchyard SLD attached. 220 kV Bus sectionalizer bay to be erected. Switchyard package for balance of work is under award stage. 220 kV Darbhanga & Begusarai lines only one circuit in service.
- Critical minimum limit to run the unit is 55% of 195 MW, i.e. 107 MW
- Maximum overload capacity on continuous operation is 105% of 195 MW, i.e. 204.75 MW.
- Maximum & minimum ramp up rate is 1 MW/ min.
- Maximum frequency for stable operation of unit < 52.5 Hz, full load rejection at 52.5 Hz.
- Minimum frequency for stable operation of unit is > 47.5 Hz, full load rejection at 47.5 Hz.
- Total auxiliary load during islanding is 25 MW.

Issue of concern



- Large variation of flow through 220/132 kV ATRs at MTPS
- Due to large variation of load and uncertainty of availability of units the 110 MW units of KBUNL may also need to be considered for formation of Island and thus its healthiness is also need to be ensured
- Healthiness of turbine governing system of the units
- Availability of dedicated communication /PLCC in 132 kV lines for formation of island or in the extreme case of absence of same, tripping of requisite CBs using UFR
- Loads selected for power station islanding should not overlap with those under normal UFLS scheme
- Due to small size of island, its power number is expected to be very low (6-10 MW/Hz) so precise load shedding at 33/11 kV is required.

POWERGRID: ER-II

Comissioning of 400kV FSTPS – Baharampur (Twin HTLS) D/C line-

SCOPE UNDER PROJECT: ERSS-XV SUBSTATIONS

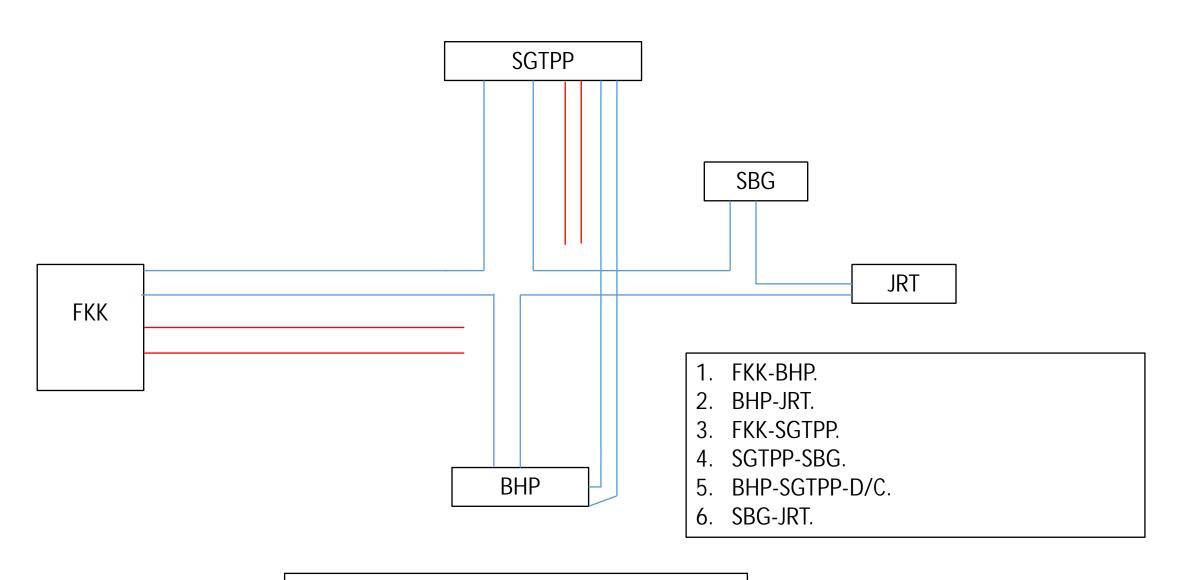
- Eastern Region Strengthening Scheme-XV (ERSS-XV).
- (i) Extension of 400kV Farakka Substation
- (ii) Extension of 400kV Baharampur Substation including supply of 1x125MVAR, 420kV, 3-ph Bus Reactor
- (iii) Extension of 400kV Subhasgram Substation and
- (iv) Extension of 400kV Sagardighi Substation

SCOPE UNDER PROJECT: ERSS-XV Associated Transmission System

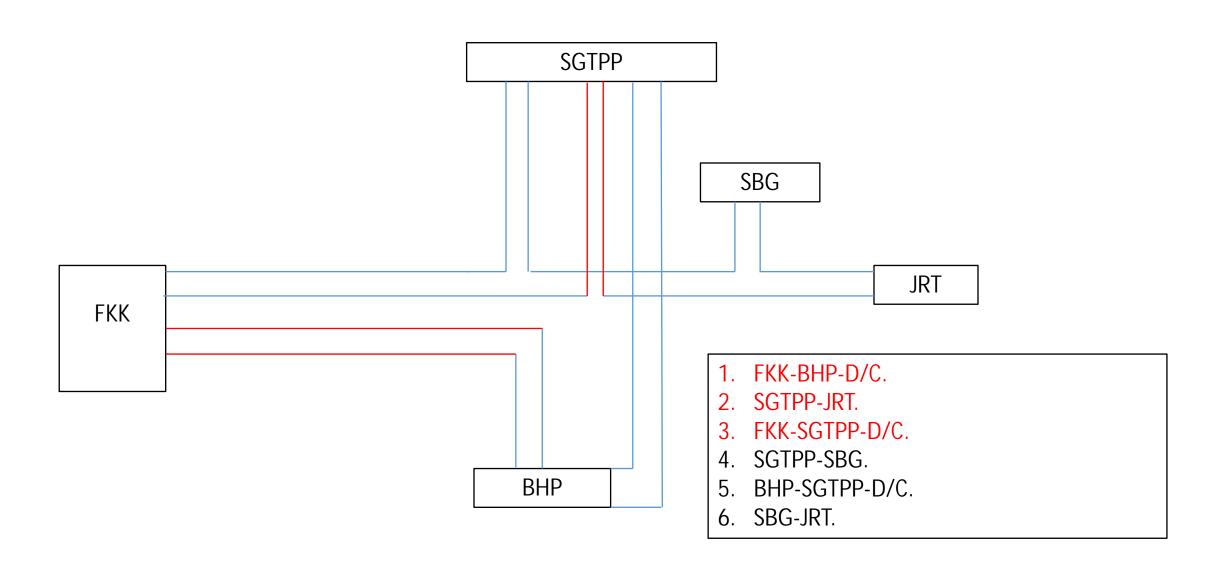
- a) Farakka Baharampur 400kV D/C line (TWIN HTLS)
- b) Removal of the existing LILO of Farakka Jeerat S/C line at Baharampur
- c) LILO of the above Farakka Jeerat 400kV S/C line at Sagardighi
- d) LILO of Sagardighi Subhasgram 400kV S/C line bays at Jeerat

DETAIL SCOPE: SUBSTATION

- a) Extension of 400kV Farakka Substation of NTPC
 - (i) 2 nos. 400kV line bays for termination of Farakka Baharampur 400kV D/C (TWIN HTLS) line at Farakka substation.
- b) Extension of 400kV Baharampur Substation of POWERGRID
 - (i) 2 nos. 400kV line bays for termination of Farakka Baharampur 400kV D/C (TWIN HTLS) line at Baharampur substation.
 - (ii) 1no. 125MVAR, 420kV, 3-ph Bus Reactor at Baharampur substation
 - (iii) Connection of existing Bus Reactor to both the Main busbars after removal of LILO of Farakka Jeerat 400kV S/C line at Baharampur substation.
- c) Extension of 400kV Sagardighi Substation of WBSETCL
 - (i) 2 nos. 400kV line bays for termination of LILO of Farakka Jeerat 400kV S/C line at Sagardighi substation.
- d) Extension of 400kV Subhasgram Substation of POWERGRID
 - (i) Conversion of 50MVAR fixed line Reactor at Subhasgram end of Sagardighi Subhasgram 400kV S/C line to switchable Reactor

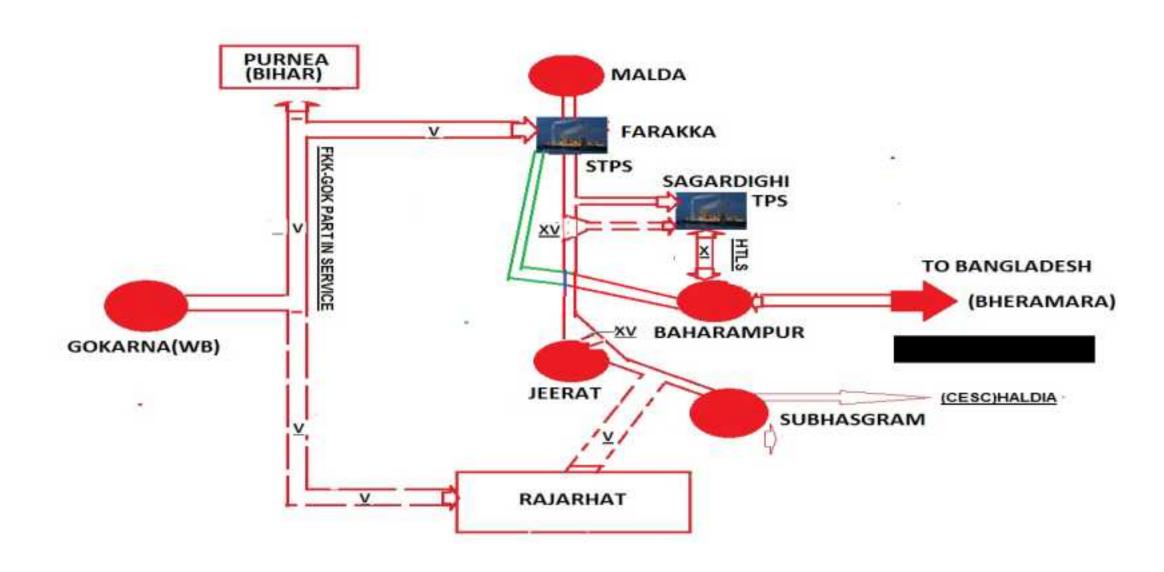


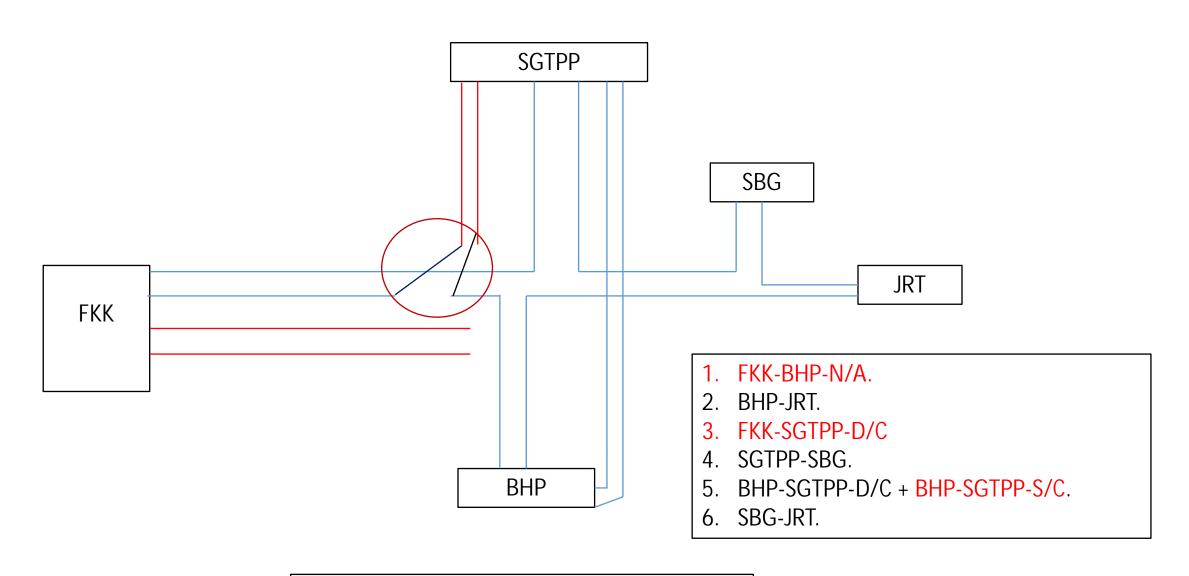
EXISTING SCHEME



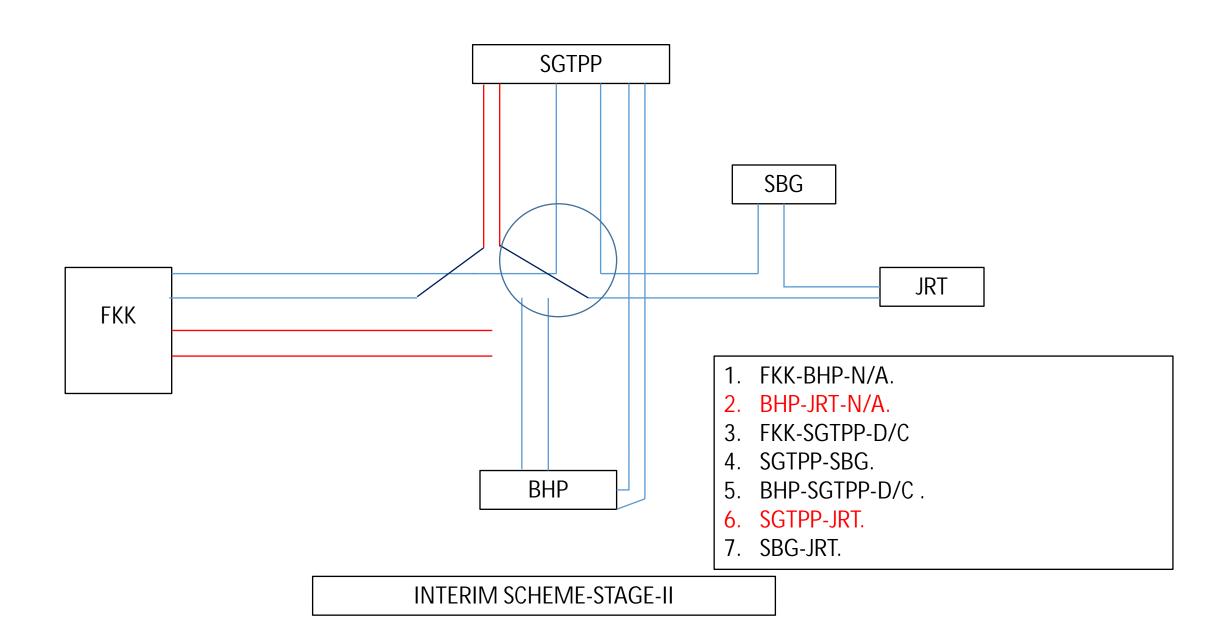
FINAL SCHEME

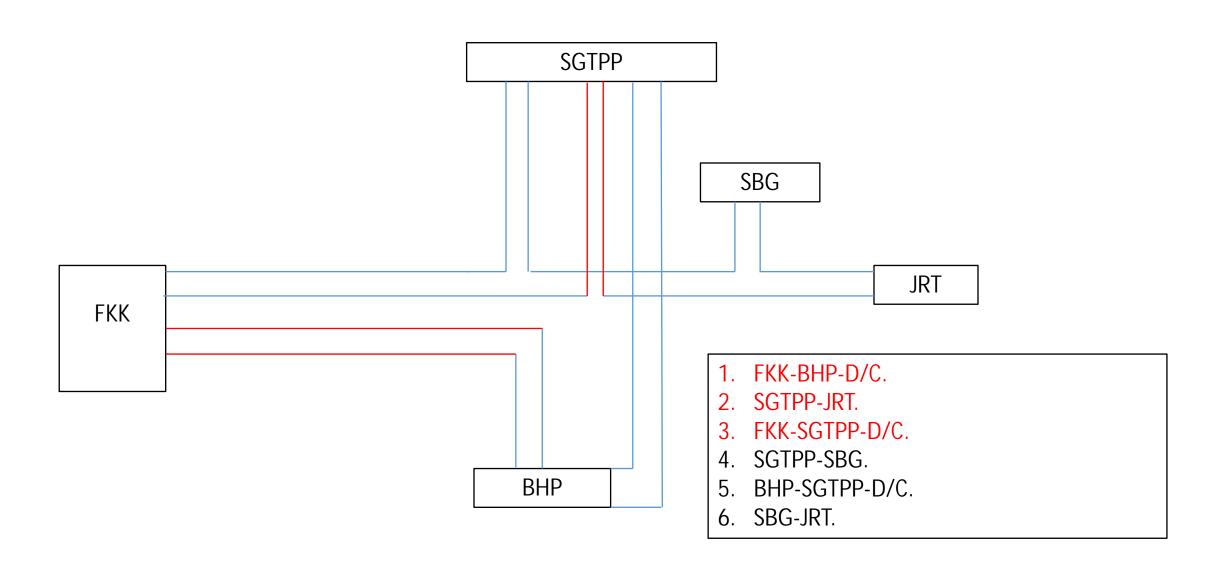
SCHEMATIC DIAGRAM





INTERIM SCHEME-STAGE-I





FINAL SCHEME

Instances satisfying ADMS logic for DVC (12 % or 150 MW Deviation)

| Time | Freq | DVC Schedule | DVC Actual | Deviation |
|------------------|-------|--------------|------------|-----------|
| 09-05-2018 21:06 | 49.70 | -1968.0 | -1661.6 | 306.4 |
| 10-05-2018 15:24 | 49.67 | -2324.7 | -2154.2 | 170.5 |
| 10-05-2018 15:26 | 49.69 | -2324.7 | -2158.3 | 166.3 |

Instances satisfying ADMS logic for West Bengal (12 % or 150 MW Deviation)

| Time | Freq | WB Schedule | WB Actual | Deviation |
|------------------|-------|-------------|-----------|-----------|
| 05-05-2018 22:54 | 49.70 | 2160 | 2396 | 236 |
| 05-05-2018 22:56 | 49.67 | 2160 | 2391 | 231 |
| 05-05-2018 22:58 | 49.62 | 2160 | 2362 | 202 |
| 05-05-2018 23:00 | 49.63 | 2037 | 2366 | 329 |
| 05-05-2018 23:02 | 49.68 | 2037 | 2309 | 272 |
| 21-05-2018 15:30 | 49.68 | 2137 | 2369 | 232 |
| 21-05-2018 15:34 | 49.63 | 2137 | 2338 | 201 |
| 21-05-2018 15:36 | 49.62 | 2137 | 2326 | 189 |
| 26-05-2018 19:44 | 49.68 | 2782 | 2947 | 165 |
| 26-05-2018 19:46 | 49.66 | 2776 | 2935 | 159 |
| 26-05-2018 19:48 | 49.61 | 2776 | 2935 | 159 |
| 26-05-2018 22:12 | 49.68 | 2406 | 2577 | 171 |
| 26-05-2018 22:14 | 49.68 | 2406 | 2588 | 182 |
| 26-05-2018 23:38 | 49.63 | 2274 | 2447 | 173 |
| 26-05-2018 23:40 | 49.65 | 2274 | 2447 | 172 |
| 26-05-2018 23:42 | 49.69 | 2274 | 2463 | 189 |
| 31-05-2018 14:16 | 49.66 | 1604 | 2274 | 671 |
| 31-05-2018 14:18 | 49.70 | 1604 | 2325 | 722 |
| 31-05-2018 14:46 | 49.70 | 1732 | 2253 | 521 |
| 31-05-2018 14:48 | 49.67 | 1732 | 2245 | 513 |
| 31-05-2018 14:50 | 49.66 | 1732 | 2260 | 529 |
| 31-05-2018 14:52 | 49.65 | 1732 | 2238 | 506 |
| 31-05-2018 14:54 | 49.68 | 1732 | 2203 471 | |
| 31-05-2018 15:16 | 49.68 | 1745 | 2215 | 471 |

Violation of deviation limit by various states in ER in the Month of May 2018

Summary

• In 26% of time, frequency was less than 49.9 Hz and in 0.26% of time (almost 2 hours) frequency was less than 49.7 Hz.

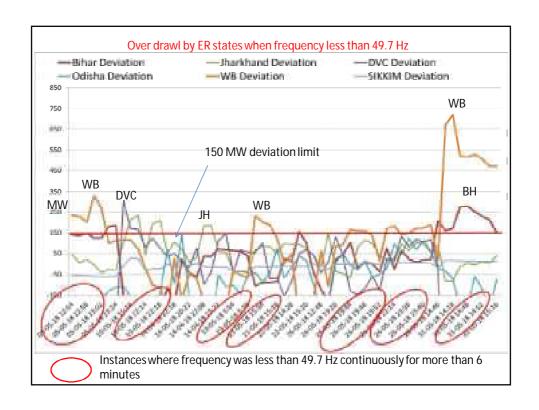
| Bihar | Jharkhand | DVC | Odisha | WB | Sikkim |
|-------|------------------|---|--|--|--|
| | | | | | |
| 34% | 30% | 26% | 26% | 47% | 4% |
| | | | | | |
| 16% | 16% | 16% | 9% | 39% | 1% |
| | | | | | |
| | | | | | |
| 5% | 5% | 5% | 1% | 11% | 0.16% |
| | | | | | |
| | | | | | |
| 0.09% | 0.067% | 0.085% | 0.090% | 0.148% | 0.031% |
| | 34% 16% 5% | 34% 30% 16% 16% 5% 5% | 34% 30% 26% 16% 16% 16% 5% 5% 5% | 34% 30% 26% 26% 16% 16% 16% 9% 5% 5% 5% 1% | 34% 30% 26% 26% 47% 16% 16% 9% 39% 5% 5% 5% 1% 11% |

Minutes of 145th OCC meeting

- "B.6 all regional entities of Eastern Region are requested to strictly comply with the following
 - 1. All SLDCs may kindly ensure that the actual net drawl of the concerned control area is always maintained within the schedule...
 - 3. Area control error (ACE) of respective control areas may be closely monitored and prompt action for demand curtailment taken whenever the positive value of the same exceeds 150MW or 12% of the schedule, whichever is lower"

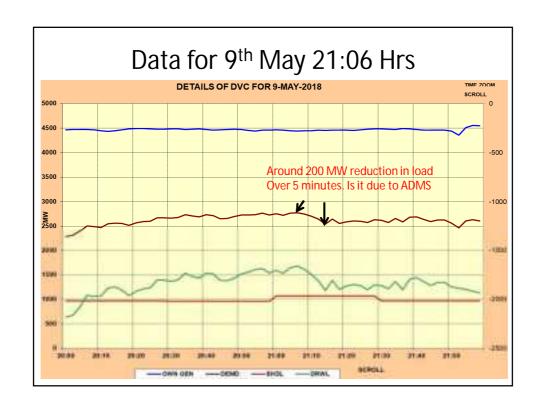
Methodology followed

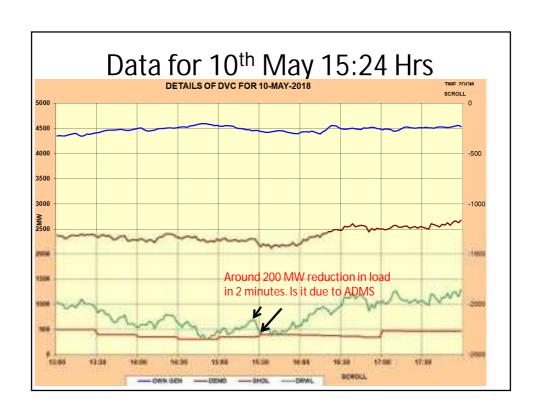
- Deviation of various states in the month of May 2018 has been studied based on ERLDC SCADA data.
- Deviation limit is considered as 12% of schedule or 150 MW whichever is minimum
 - In case of schedule <400 MW, deviation limit is considered as 48 MW.



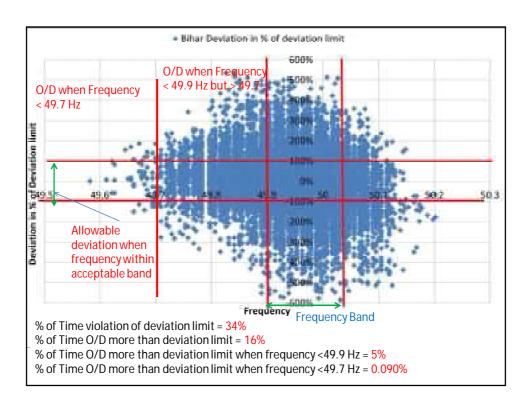
Load rejection in ADMS as per DVC

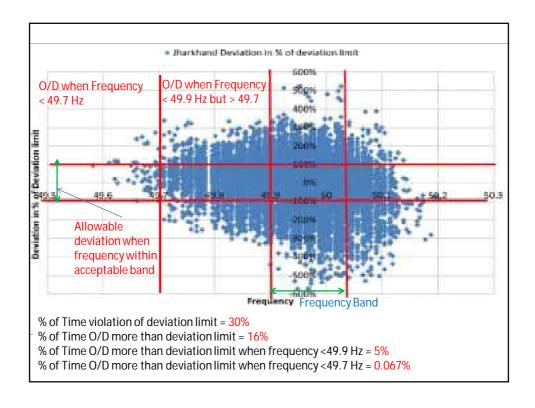
| | Time | | |
|----------------|-------|-----------------------|---------|
| Date | (Hrs) | Feeder | CD(MVA) |
| 09-05- 2018 | 21:06 | Barhi | 30 |
| | | CTPS(Chas) | 20 |
| | | Ramgarh-I | 40 |
| | | Ramgarh-II | 40 |
| 10-05- 2018 | | Bokaro(JSEB) | |
| | 15:24 | 15:24 CTPS(Jainamore) | 22 |
| | | Ramgarh-II | 40 |

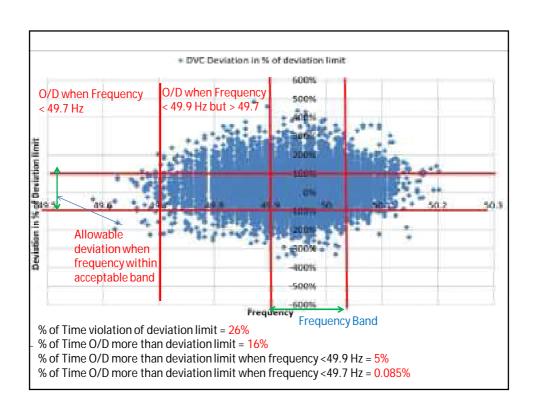


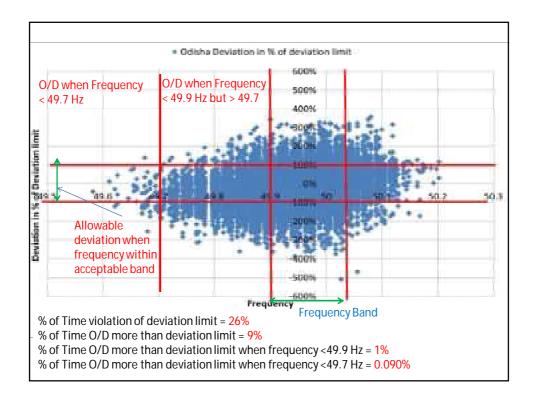


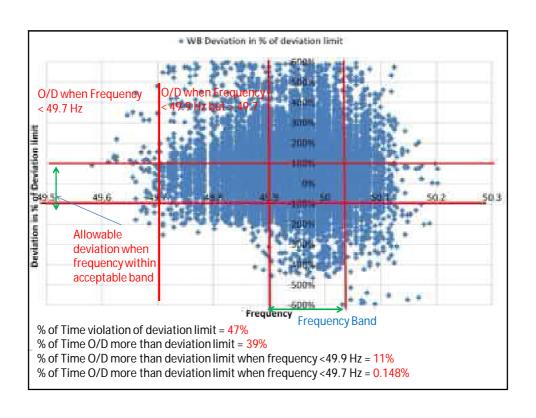
Scatter plot between % of deviation w.r.t. deviation limit and frequency

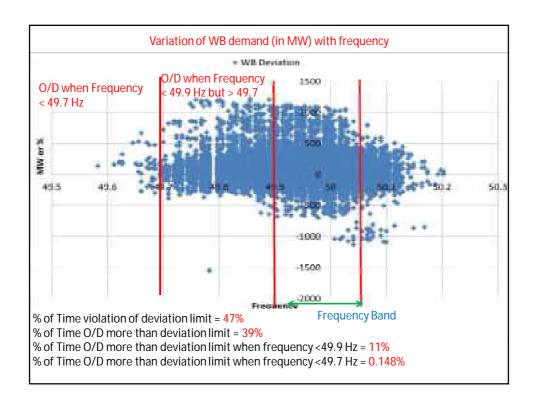


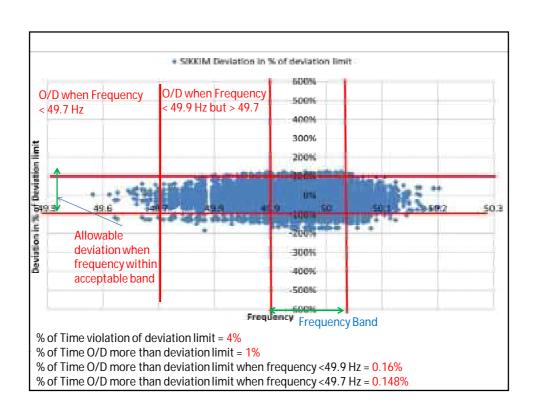




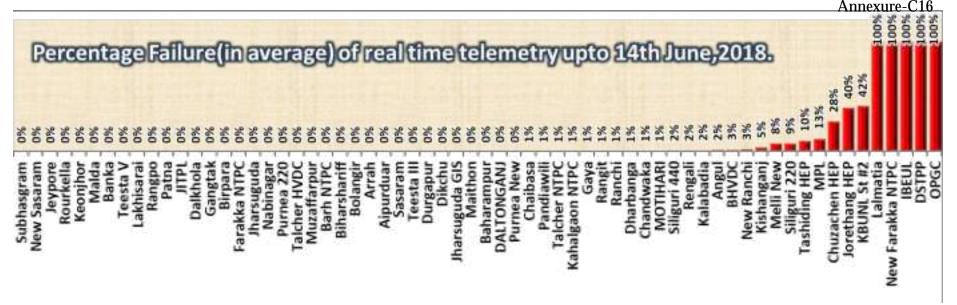




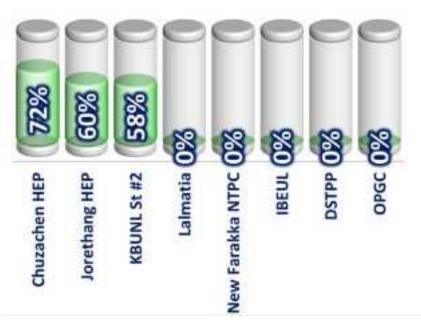


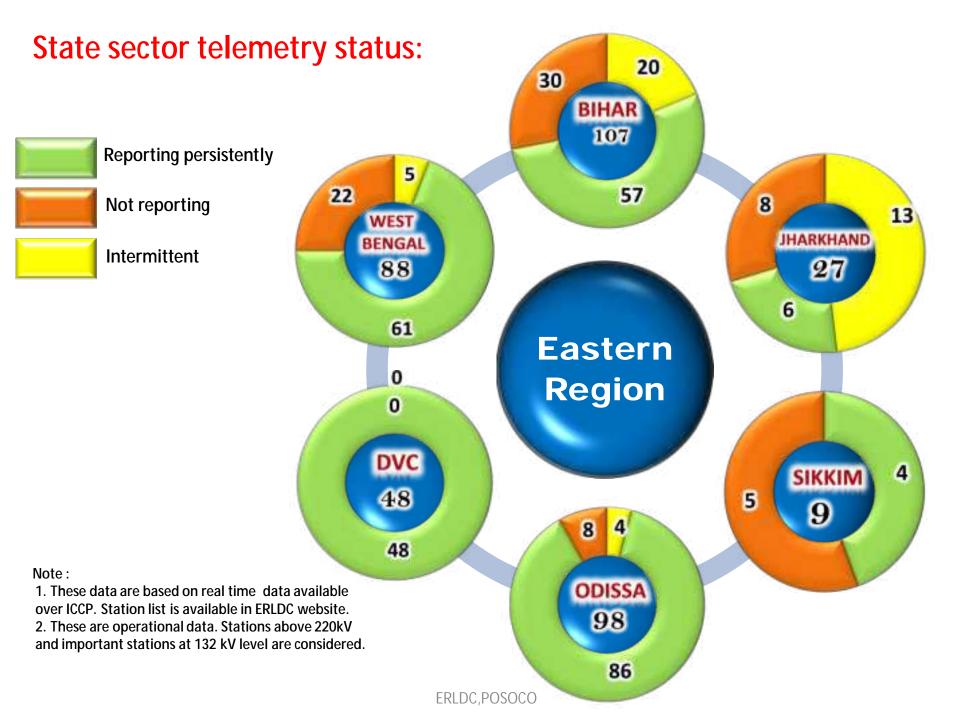


Overview of real time telemetry of Eastern region, June-2018.









– Prolong outage:

- New Farakka (NTPC) since 09-09-2017(Target date 30th April,2018, as informed by NTPC in 143rd OCC).
- Lalmatia(NTPC) since 01-01-2018.
- Non availability of major analog data of Barh station.
- Erroneous telemetry of Baripada Kharagpur MW data at Baripada end.
- Erroneous bus voltage measurement of Arambag 400 kV station.

| Hajipur(220kV) K BARH(132kV) BA Dalsinghsarai(132kV) GOH(132kV) Ha Jahanabad(132kV) J | List of station in the station in th | BODH GAYA(220kV) Sipara(220kV) BIHTA(132kV) | Darbhanga(220kV) Arrah(132kV) BUXAR(132kV) | ran 90% of time Fatuha(220kV) Aurangabad(132kV) | GOPALGANJ(220kV) Banka(132kV) |
|---|--|---|--|---|-------------------------------|
| Hajipur(220kV) K BARH(132kV) BA Dalsinghsarai(132kV) GOH(132kV) Ha Jahanabad(132kV) J | HAGAUL(220kV) RIPAHARI(132kV) DIGHA(132kV) | Sipara(220kV) BIHTA(132kV) | Arrah(132kV) | Aurangabad(132kV) | |
| BARH(132kV) BA Dalsinghsarai(132kV) GOH(132kV) Ha Jahanabad(132kV) J | RIPAHARI(132kV) DIGHA(132kV) | BIHTA(132kV) | | | Banka(132kV) |
| Dalsinghsarai(132kV) GOH(132kV) Ha Jahanabad(132kV) J | DIGHA(132kV) | | DLIVAD/1226// | | |
| GOH(132kV) Ha Jahanabad(132kV) J | | | DUNAK(132KV) | Chandauti(132kV) | Chhapra(132kV) |
| Jahanabad(132kV) J | olinur Old(122kV) | Dumraon(132kV) | Ekangarsarai(132kV) | Gaighat(132kV) | Gangwara(132kV) |
| | ajipui Oiu(132KV) | Harnaut(132kV) | HULASGANJ(132kV) | Imamgunj(132kV) | Jagdishpur(132kV) |
| (usheswar Asthan (132kV.) LA | ai Nagar(132kV) | Karmnasa(132kV) | Karpi(132kV) | Katihar(132kV) | Katra(132kV) |
| (asheswai Astrian (102kt) Er | KHISARAI(132kV) | Madhubani(132kV) | Mithapur(132kV) | Nalanda(132kV) | Naugachhia(132kV) |
| Phulparas (132kV) | Raxaul (132kV) | Runisaidpur(132kV) | Sabour(132kV) | SAHARSA(132kV) | Sasaram(132kV) |
| Shekhpura(132kV) S | herghati(132kV) | SKMCH(132kV) | Sonenagar(132kV) | Sultanganj(132kV) | TEHTA(132kV) |
| Tekari(132kV) V | Vazirganj(132kV) | KBUNL_ST_1(220KV) | | | |
| | L | ist of station ha | ving intermittent | t data | |
| DEHRI(220kV) Kish | anganj new(220kV) | Pusauli(220kV) | Samastipur new(220kV) | BANJARI(132kV) | BIKRAMGANJ(132kV) |
| DHAKA(132kV) Ja | akkanpur(132kV) | Jandaha(132kV) | KARBIGAHIA(132kV) | Kochas (Dinara)(132kV) | Kundra(132kV) |
| MASRAKH(132kV) | Nawada(132kV) | Pandaul(132kV) | Samastipur(132kV) | Shitalpur(132kV) | Sitamarhi(132kV) |
| Vaishali(132kV) Va | lmikinagar(132kV) | | | | |
| List | of stations ha | ving availability | (less than 10% o | r RTU not integara | ated) |
| Madhepura(220kV) son | enagar new(220kV) | Uda Kishanganj(132kV) | Belaganj(132kV) | BETIAH(132kV) | Dhandaha(132kV) |
| • | orbisganj(132kV) | Hathidah(132kV) | Jamalpur(132kV) | Jamui(132kV) | Kahalgaon(132kV) |
| * * | ishanganj(132kV) | Koshi(132kV) | MASAURHI(132kV) | Mohania(132kV) | Motihari(132kV) |
| | Purnea(132kV) | RAFIGANJ(132kV) | Rajgir(132kV) | Ramnagar(132kV) | Siwan(132kV) |
| • • • | Supaul(132kV) | BTPS_NEW(132KV) | DARBHANGA(132KV) | MOTIPUR(220KV) | MUSHAURI(220KV) |

| | | DV | 'C | | |
|------------------------|---------------------|---------------------|---------------------|--------------------|---------------------|
| | List of sta | tion having avai | lability higher th | an 90% | |
| BOKARO A TPS(400kV) | DURGAPUR TPS(400kV) | MEJIA B TPS(400kV) | RAGHUNATHPUR(400kV) | TISCO(400kV) | BARHI(132kV) |
| BURNPUR(220kV) | CTPS 1(132kV) | CTPS 2(220kV) | CTPS B(220kV) | DHANBAD(220kV) | DURGAPUR(220kV) |
| HOWRAH(132kV) | JAMSHEDPUR(220kV) | KALYANESWARI(220kV) | MEJIA A TPS(220kV) | MOSABANI(132kV) | PATRATU(132kV) |
| RAMGARH(220kV) | WARIA TPS(220kV) | ASP(132kV) | BAIDA(132kV) | BARDWAN(132kV) | BARJORA(220kV) |
| BELMURI(132kV) | CHANDIL(132kV) | GIRIDHI(220kV) | GOLA(132kV) | HAZARIBAG(132kV) | JAMURIA(132kV) |
| KALIPAHARI(132kV) | KHARAGPUR(132kV) | KODARMA(132kV) | KUMARDHUBI(132kV) | MAITHON HPS(132kV) | NIMIAGHAT(132kV) |
| NORTH KARANPURA(132kV) | PANCHET HPS(132kV) | PARULIA(132kV) | PATHERDIH(132kV) | PURULIA(220kV) | PUTKI(132kV) |
| RAMGARH(132kV) | RAMKANAL(132kV) | KODARMA(440kV) | BOKARO_B | KONAR | KOLAGHAT_NEW(132Kv) |

| | | JHARKHA | AND | | |
|------------------|----------------------|----------------------|------------------|-----------------|-----------------|
| | List of statio | n having availal | oility higher | than 90% | |
| Chandil(220kV) | Patratu(220kV) | Ramchandrapur(220kV) | Tenughat (220kV) | Hatia-I(132kV) | Jadugoda(132kV) |
| | | | | | |
| | List of | station having in | termittent d | ata | |
| Adityapur(132kV) | Chakradharpur(132kV) | Dumka(132kV) | Golmuri(132kV) | Japla(132kV) | Kamdara(132kV) |
| Kanke(132kV) | Lalmatia(132kV) | Manique(132kV) | Namkum(132kV) | Noamundi(132kV) | Pakur(132kV) |
| Sahebganj(132kV) | | | | | |
| | List of stat | ion having availa | bility less that | an 10% | |
| Hatia-II(220kV) | Daltonganj(132kV) | Deoghar(132kV) | Garawah(132kV) | Goilkera(132kV) | Jamtara(132kV) |
| Latehar(132kV) | Rajkharsawan(132kV) | | | | |

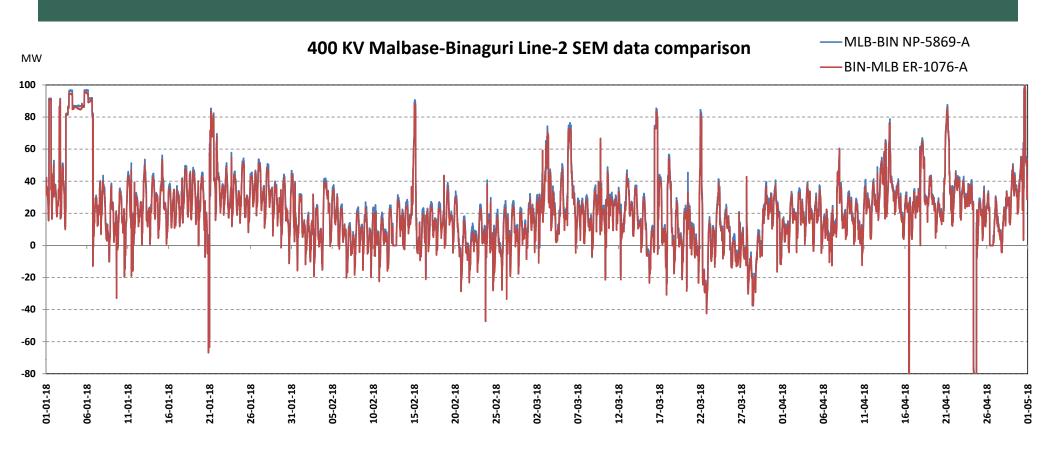
| | | WEST BI | ENGAL | | | | | |
|---|-----------------------------|----------------------------|------------------------|--|-------------------------------|--|--|--|
| | List of st | ation having avai | lability higher th | an 90% | | | | |
| Arambag(400kV) | Domjur(220kV) | Gokarna 400kv(400kV) | Haldia TPP(400kV) | Howrah(220kV) | Jeerat(400kV) | | | |
| Kasba(220kV) | KTPS(400kV) | Lakshmikantapur(220kV) | Midnapur(220kV) | PPSP(400kV) | Satgachia(220kV) | | | |
| Subhasgram(220kV) | Durgapur(400kV) | Bakreswar(400kV) | Kharagpur(400kV) | Sagardighi(400kV) | CHANDITALA(400kV) | | | |
| Asansol(220kV) | DPL(220kV) | Durgapur(220kV) | Gokarna(220kV) | Rishra(220kV) | STPS(220kV) | | | |
| NJP(220kV) | Krishnanagar(220kV) | BTPS(132kV) | Haldia Old(132kV) | Liluah(132kV) | Rammam(132kV) | | | |
| Saltlake(132kV) | Maldah(132kV) | NBU(132kV) | Ashoknagar(132kV) | Adisaptagram(132kV) | Borjora(132kV) | | | |
| Bighati(132kV) | Kursiang(132kV) | NPPSP(400kV) | FOUNDRY PARK(220kV) | JK NAGAR(220kV) | NEWTOWN3(220kV) | | | |
| DHARAMPUR(220kV) | Budge Budge(CESC)(220kV) | Chakmir(CESC)(132kV) | Majherhat(CESC)(132kV) | Southern(CESC)(132kV) | Botanical gurden(CESC)(132kV) | | | |
| New Coshipur(CESC)(220kV) | Princep street(CESC)(132kV) | Parklane(CESC)(132kV) | Titagarh(CESC)(132kV) | BT Road(CESC)(132kV) | Jadavpur(CESC)(132kV) | | | |
| EM Bypass(CESC)(220kV) Belur(CESC)(132kV) | Chakmir(CESC)(132kV) | East Calcutta(CESC)(132kV) | Dum Dum(CESC)(132kV) | Taratala(CESC)(132kV) | BBD Bag(CESC)(132kV) | | | |
| | Lis | st of station having | intermittent data | <u> </u> | | | | |
| Haldia New(220kV) | Titagarh(132kV) | Tcf-2(132kV) | SADAIPUR(220kV) | TLDP4(220kV) | | | | |
| | List of | f station having ava | nilability less than | 10% | | | | |
| Dalkhola(220kV) | KLC Bantala(220kV) | Barasat(132kV) | Bishnupur(132kV) | Bongaon(132kV) | Kolaghat (132kV) | | | |
| Raigunj(132kV) | Sainthia(132kV) | Birpara(132kV) | Chalsa(132kV) | Tcf-1(132kV) | Tcf-3(132kV) | | | |
| Tarakeswar(132kV) | Alipuduar(132kV) | Gangarampur(132kV) | Joka(132kV) | ka(132kV) New Bishnupur(220kV) Kalimpong(66kV) | | | | |
| Hizli(132kV) | IPCHL(220kV) | TLDP3(220kV) | Patuli(CESC)(132kV) | | | | | |

| | | 0 | DISHA | | • |
|-----------------------|--------------------|----------------------|----------------------|---------------------------------|---------------------|
| | List of s | tation having | availability high | er than 90% | |
| Mendhasal(400kV) | Meramundali(400kV) | JSPLA(400kV) | GMR(400kV) | Jayanagar(220kV) | Balimela HPS(220kV) |
| Uper Kolab HPS(220kV) | Theruvalli(220kV) | Indravati HPS(220kV) | Bhanjanagar(220kV) | Narendrapur(220kV) | Bidanasi(220kV) |
| Chandaka(220kV) | Nayagarh(220kV) | Rengali HPS(220kV) | TTPS(220kV) | Rengali swiching station(220kV) | Duburi New(400kV) |
| Duburi Old(220kV) | Paradeep(220kV) | Bhdrakh(220kV) | Balasore(220kV) | Budhipadar(220kV) | IB TPS(220kV) |
| Bolangir New(220kV) | Tarkera(220kV) | Barkote(220kV) | TATA POWER(220kV) | JSL(220kV) | TSIL(220kV) |
| VEDANTA(220kV) | VISA(220kV) | JSPL(220kV) | MIL(220kV) | OPTCL (Podia)(220kV) | Sunabeda(132kV) |
| Machhkund HPS(132kV) | Rayagada(132kV) | Chhatrapur(132kV) | Aska(132kV) | Bhubaneswar (132kV) | Akhusinga(132kV) |
| Basta(132kV) | Balugaon(132kV) | Khurda(132kV) | Puri(132kV) | Cuttack(132kV) | Choudwar(132kV) |
| ICCL(132kV) | Chainpal(132kV) | Rairangpur(132kV) | Dhenkanal(132kV) | Baripada(132kV) | Jajpur Road(132kV) |
| Angul(132kV) | Boinda(132kV) | Kendrapara(132kV) | Kamakhyanagar(132kV) | Chiplima HPS(132kV) | Sambalpur(132kV) |
| Rajgangapur(132kV) | Bargarh(132kV) | ARYAN(132kV) | NBVL(132kV) | EMAMI(132kV) | ARATI(132kV) |
| AISCL(132kV) | IMFFA(132kV) | MINAKHEE(132kV) | OPCL(132kV) | OCLRJ(132kV) | OCL(132kV) |
| Soro(132kV) | Sonepur(132kV) | Anandpur (132kV) | ACC, Bargarh(132kV) | Barpalli(132kV) | Digapahandi(132kV) |
| Jaleswar(132kV) | Chhend(132kV) | Kesura(132kV) | Patnagarh(132kV) | Pattamundai(132kV) | Phulbani(132kV) |
| Sundargarh(132kV) | Kalarangi(132kV) | | | | |
| | L | ist of station ha | aving intermitten | t data | |
| NALCO(220kV) | Rourkela(132kV) | Burla HPS(132kV) | Parlakhemundi(132kV) | | |
| | List o | of station having | g availability less | than 10% | |
| Joda(220kV) | Kesinga(132kV) | Sijua(132kV) | SHYAM(132kV) | VEDANTA(LANGIGARH)(132kV) | Bolangir Old(132kV) |

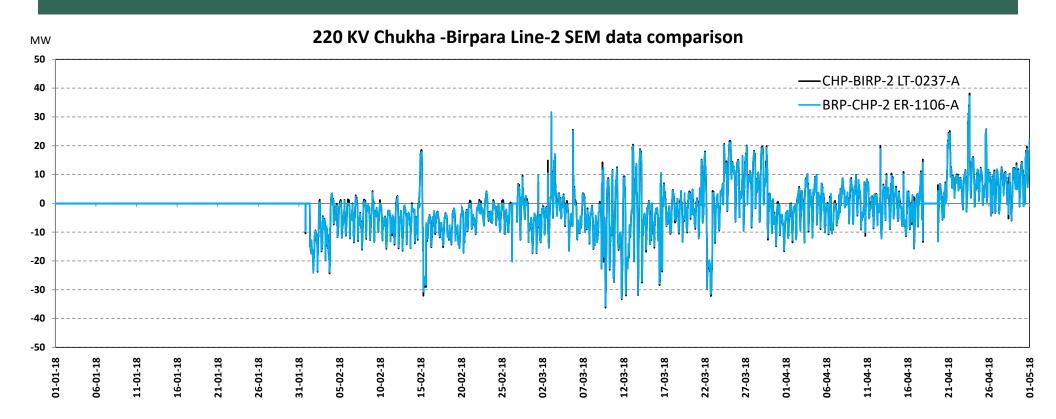
| Sub Station | ICT | HV side Meter | LV Side Meter |
|-------------|---------|---------------|---------------|
| ALIPURDUAR | 400/220 | 2 | 2 |
| BARIPADA | 400/220 | 3 | 3 |
| BIHARSHARIF | 400/220 | 3 | 3 |
| BINAGURI | 400/220 | 2 | 2 |
| BOLANGIR | 400/220 | 2 | 2 |
| CHAIBASA | 400/220 | 2 | 2 |
| DURGAPUR | 400/220 | 2 | 2 |
| GAYA | 400/220 | 2 | 2 |
| JAMSHEDPUR | 400/220 | 3 | 3 |
| JEYPORE | 400/220 | 2 | 2 |
| KEONJHAR | 400/220 | 2 | 2 |
| KISHANGANJ | 400/220 | 2 | 2 |
| MAITHON | 400/220 | 2 | 2 |
| MALDA | 400/220 | 2 | 2 |
| MUZAFFARPUR | 400/220 | 3 | 3 |
| NEW PURNEA | 400/220 | 2 | 2 |
| PANDIABILI | 400/220 | 2 | 2 |
| PATNA | 400/220 | 3 | 3 |
| RANCHI | 400/220 | 2 | 2 |
| RENGALI | 400/220 | 2 | 2 |
| ROURKELA | 400/220 | 2 | 2 |
| SASARAM | 400/220 | 2 | 2 |
| SUBHASGRAM | 400/220 | 5 | 5 |
| BANKA | 400/132 | 2 | 2 |
| LAKHISARAI | 400/132 | 2 | 2 |

| ARAH | 220/132 | 3 | 3 | |
|--------------|---------|----|----|--|
| BARIPADA | 220/132 | 2 | 2 | |
| BIRPARA | 220/132 | 2 | 2 | |
| MALDA | 220/132 | 2 | 2 | |
| NJP/SILIGURI | 220/132 | 2 | 2 | |
| PURNEA | 220/132 | 3 | 3 | |
| GANGTOK | 132/66 | 2 | 2 | |
| | Total | 74 | 74 | |

400 KV MALBASE-BINAGURI LINE SEM DATA COMPARISON



220 KV CHUKHA-BIRAPARA LINE-2 SEM DATA COMPARISON



MONTHLY ENERGY COMPARISON

| Month | 400 KV MLB-BIN at Malbase | BIN-MLB at Bina end | BIN-MLB at Bina end | DIFF between DGPC and PG meter at Bina | % DIFF between DGPC and PG meter at Bina | CHP-BIRP-2 | BRP-CHP-2 | BRP-CHP-2 at Birpara end | DIFF between DGPC and PG meter at Birpara | % DIFF between DGPC and PG meter at Birpara |
|--------|------------------------------|---------------------|------------------------|--|--|------------|-----------|-----------------------------|--|---|
| | NP-5869-A | ER-1076-A PG meter | DGPC meter | | | LT-0237-A | ER-1106-A | DGPC meter (LT-0327-A) | | |
| | мυ | МΩ | МΩ | MU | | MU | ми | MU | MU | |
| Jan-18 | 26.00 | 24.95 | 24.72 | -0.23 | -0.94 | 0.06 | 0.06 | 0.06 | 0.00 | 0.00 |
| Feb-18 | 7.78 | 6.23 | 6.41 | 0.18 | 2.84 | 3.83 | 3.83 | 3.83 | 0.00 | -0.03 |
| Mar-18 | 12.80 | 11.05 | 11.06 | 0.01 | 0.10 | 1.55 | 1.60 | 1.60 | 0.00 | -0.30 |
| Apr-18 | 17.91 | 16.60 | 17.49 | 0.90 | 5.14 | 2.26 | 2.26 | 2.33 | 0.07 | 3.00 |

| S.No | Region | State | Sub-Station | Owner/ Utility | S/S type | PMU | TOTAL PANEL QTY | PMU Delivery status | status | Erection | Cable laying | CT/PT/DI termination | Commissio ning | Integration | SAT | Remarks |
|------|--------|-------------|-------------------|-------------------|----------|-----|-----------------------|---------------------------|--------|-------------------|-------------------|-------------------------|-------------------|-------------|---------|--|
| | | | 78 | | | 296 | 175 | 74 | 75 | 66 | 65 | 64 | 64 | 43 | 60 | |
| 1 | ER-II | | Arambagh | WBSETCL | CR | 3 | 1 | Yes | Yes | done | done | done | | done | done | |
| 2 | ER-II | | BAKRESHWAR TPS | WBSETCL | CR | 4 | 1 | Yes | Yes | done | done | done | | done | done | |
| 3 | ER-II | | Bidhannagar | WBSETCL | CR | 3 | 1 | Yes | Yes | done | done | done | | done | done | |
| 4 | ER-II | West Bengal | JEERAT | WBSETCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | pending | SAT pending as customer didn't agree to witness SAT. |
| 57 | ER-II | West Bengal | Alipurduar | Powergrid | CR | 6 | 7 | Yes | Yes | partially done | partially done | partially done | partially done | Pending | pending | Work started on 22.12.2016. 4 PMU panels and network panel installed. Rest 2 PMU panels could not be erected because location not finalised. Cable laying and termination at PMU panel completed for 6 feeders. CT/PT interfacing pending due to unavailability of shutdown. PGCIL is asking to take DI points from field, which is not in scope. Work is held up. Team demobilised. |
| 6 | ER-II | West Bengal | KASBA | WBSETCL | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 7 | ER-II | DVC | DSTPS | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. |
| 67 | ER-I | BIHAR | BANKA | Powergrid | Kiosk | 4 | 5 | Yes | Yes | done | done | done | done | Pending | pending | SAT pending. |
| 9 | ER-II | DVC | MEJIA-B | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | Integrated on 07.12.2016 |
| 45 | ER-II | Jharkhand | Bokaro TPS | DVC | CR | 1 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. |
| 11 | ER-II | DVC | Raghunathpur TPS | DVC | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 33 | Odisha | Orissa | Bolangir | Powergrid | CR+Kiosk | 2 | 3 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. |
| 13 | ER-II | DVC | Bokaro | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | | done | done | PMU integrated on 24.06.2016 |
| 14 | ER-II | DVC | CTPS(Chanderpura) | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. |
| 78 | ER-I | Bihar | Barauni PP | Bihar | CR | 0 | 0 | No | No | N/A | N/A | N/A | N/A | N/A | N/A | Substation deleted. |
| 16 | Odisha | Orissa | MENDHASAL | OPTCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 17 | Odisha | Orissa | MERAMANDALI | OPTCL | CR | 6 | 2 | Yes | Yes | done | done | done | done | done | done | |
| 18 | Odisha | Orissa | RENGALI | OPTCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | Integrated on 22.06.2017 |
| 37 | Odisha | Orissa | GMR | GMR | Kiosk | 3 | 4 | Yes | Yes | done | done | done | done | Pending | pending | SDH Panel not commisioned, powergrid supervision required for SAT activity |
| 20 | Odisha | Orissa | BALIMELA(H) | OPTCL | CR | 3 | 1 | Yes | Yes | done | done | done | | done | done | |
| 21 | ER-II | West Bengal | Durgapur | Powergrid | CR | 5 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 30.05.2016. |
| 15 | Odisha | Orissa | Budhipadar | OPTCL | CR | 10 | 0 | No | Yes | pending | pending | pending | pending | pending | pending | Manufactured, waiting for FAT. Will be dispatched after FAT. |
| 23 | Odisha | Orissa | Indrawati | Powergrid | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. |
| 24 | Odisha | Orissa | Indrawati HPS | OPTCL | CR | 1 | 1 | Yes | Yes | done | done | done | | done | done | Team deployed in substation. Permission for panel installation & cable laying given but no work permission in existing control panel is given. Team was idle for more than. 10 days. |
| 25 | Odisha | Orissa | JEYPORE | Powergrid | CR | 2 | 1 | Yes | Yes | done | done | done | | Pending | done | Communication Link not available. |
| 26 | ER-II | West Bengal | MAITHON | Powergrid | CR | 7 | 2 | Yes | Yes | done | done | done | | done | done | PMU integrated on 21.06.2016. |
| 27 | ER-II | West Bengal | MALDA | Powergrid | CR | 2 | 1 | Yes | Yes | done | done | done | | done | done | PMU integrated on 24.06.2016 |
| 28 | Odisha | Orissa | Rengali | Powergrid | Kiosk | 2 | 1 | Yes | Yes | done | done | done | | done | done | PMU integrated on 04.05.2016 |
| 29 | Odisha | Orissa | ROURKELA | Powergrid | Kiosk | 5 | 2 | Yes | Yes | done | done | done | | done | done | PMU integrated on 21.04.2016 |
| 30 | ER-II | West Bengal | Binaguri | Powergrid | CR | 7 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 28.07.2016 |

PMU Installation and commissioning status of ER as on 12.01.2018

| S.No | Region | State | Sub-Station | Owner/ | S/S type | PMU | | PMU Delivery | Cable Delivery | Erection | Cable | CT/PT/DI | Commissio | Integration | SAT | Remarks |
|------|----------|-------------|-----------------------|------------|-----------|-----|-----|-----------------|-------------------|----------|---------|-------------|-----------|-------------|---------|--|
| | iiogioii | 0.0.0 | | Utility | o, o typo | | QTY | status | status | | laying | termination | ning | og. u | 02 | TO THE STATE OF TH |
| 31 | ER-II | West Bengal | SUBHASHGRAM | Powergrid | Kiosk | 2 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 22.06.2016 |
| 32 | Odisha | Orissa | Baripada | Powergrid | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 30.01.2017. |
| 75 | ER-I | Jharkhand | Jharkhand Pool (Chand | Powergrid | Kiosk | 4 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU |
| | | | | | | | | | | | | | | | | panel and SDH is more than 100 mts. |
| 34 | Odisha | Orissa | ANGUL | Powergrid | Kiosk | 10 | 11 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 24.03.2017. |
| 35 | Odisha | Orissa | Keonjhar | Powergrid | CR | 2 | 3 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 18.01.2017. |
| 36 | Odisha | Orissa | Jharsuguda | Powergrid | Kiosk | 8 | 9 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 29.07.2016 |
| 74 | ER-I | Bihar | Kishanganj (karandegł | Powergrid | CR | 4 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU |
| | | | | | | | | | | | | | | | | panel and SDH is more than 100 mts. |
| 8 | ER-II | DVC | Kodarma TPS | DVC | CR | 3 | 1 | Yes | Yes | done | done | done | done | Pending | done | SDH panel does not exist. |
| 39 | ER-II | West Bengal | Baharampur | Powergrid | CR | 2 | 3 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 10.05.2016 |
| 40 | ER-II | West Bengal | Birpara | Powergrid | CR | 4 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 15.07.2016. |
| 41 | ER-II | DVC | CTPS B | DVC | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | mom/sat signature pending from powergrid end. |
| 42 | ER-II | DVC | KALYANESWARI | DVC | CR | 4 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 02.01.2017. |
| 43 | ER-II | DVC | PARULIA | DVC | CR | 5 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 21.02.2017. |
| 44 | ER-II | West Bengal | Purulia PSP | WBSETCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 66 | ER-I | BIHAR | LakhiSarai | Powergrid | Kiosk | 4 | 5 | Yes | Yes | done | done | done | done | Pending | done | SAT completed. Integration planed |
| 46 | ER-II | West Bengal | Durgapur TPS | DVC | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 73 | ER-I | Jharkhand | Daltonganj | Powergrid | Kiosk | 2 | 3 | Yes | Yes | N/A | N/A | N/A | N/A | N/A | N/A | Site on-hold as Substation is under construction. |
| 22 | ER-II | West Bengal | FARRAKA | NTPC | CR | 5 | 2 | Yes | Yes | done | done | done | done | pending | done | S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. |
| 54 | Odisha | Orissa | Ind barath | Ind barath | Kiosk | 1 | 1 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |
| 10 | ER-II | DVC | Maithon RB TPS | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | |
| | | | | | | | | | | | | | | J | | Work started on 04.07.2016. Panel shifted. Team |
| | | | | | | | | | | | | | | | | demobilised due to access issue and panel location issue. |
| | | | | | | | | | | | | | | | | Team deputed again 18th August, I&C done, integration |
| | | | | | | | | | | | | | | | | pending due to communication break with control center. |
| 51 | Odisha | Orissa | Jindal | JITPL | CR | 2 | 1 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |
| 5 | ER-II | West Bengal | Kolaghat TPS | WBSETCL | CR | 4 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 52 | Odisha | Orissa | Monnet | Monnet | CR | 1 | 1 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |
| 55 | ER-II | Sikkim | New Melli | Powergrid | CR | 0 | 0 | No | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Substation deleted. |
| 76 | ER-I | Jharkhand | Patratu | Jharkhand | CR | 3 | 1 | Yes | Yes | N/A | N/A | N/A | N/A | N/A | N/A | Permission awaited. |
| 53 | Odisha | Orissa | Strelite | Strelite | CR | 3 | 1 | Yes | Yes | done | done | done | done | pending | done | SDH not commisioned |
| 48 | Odisha | Orissa | TALCHER | NTPC | CR | 5 | 2 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |
| 58 | ER-II | West Bengal | Rajarhat | Powergrid | CR | 2 | 1 | Yes | Yes | done | pending | pending | pending | Pending | pending | |
| | | | | | | | | | | | | | | | | Site on-hold. Work withheld due to localite agitation issue. |
| 59 | ER-I | Jharkhand | JAMSHEDPUR | Powergrid | CR | 6 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 14.02.2017 |
| 60 | ER-I | BIHAR | Kahalgaon(KHSTPP) | NTPC | CR | 6 | 2 | Yes | Yes | done | done | pending | pending | Pending | pending | Work on-hold. NTPC asked to use Armoured cable. Out of |
| | | | | | | | | | | | | | | | | scope. Team idemobilized from site. Site assumed as |
| | | | | | | | | | | | | | | | | closed as per PRM in Kolkatta. |
| 61 | ER-I | BIHAR | Purnea | Powergrid | CR | 6 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 13.04.2017 |

PMU Installation and commissioning status of ER as on 12.01.2018

| S.No | Region | State | Sub-Station | Owner/ Utility | S/S type | PMU | | PMU Delivery status | Cable Delivery status | Erection | Cable laying | CT/PT/DI termination | Commissio ning | Integration | SAT | Remarks |
|------|--------|-----------|----------------------|-------------------|----------|-----|----|---------------------------|-----------------------------|----------|-----------------|-------------------------|-------------------|-------------|---------|--|
| 62 | ER-I | BIHAR | PATNA | Powergrid | Kiosk | 6 | 7 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 11.04.2017 |
| 63 | ER-I | Jharkhand | RANCHI | Powergrid | Kiosk | 12 | 13 | Yes | Yes | done | done | done | done | done | done | |
| 64 | ER-I | BIHAR | SASARAM(Pusauli) | Powergrid | CR+Kiosk | 9 | 3 | Yes | Yes | done | done | done | done | done | done | |
| 65 | ER-I | BIHAR | BARH | NTPC | CR | 4 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. |
| 12 | ER-II | DVC | MEJIA | DVC | CR | 5 | 2 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. |
| 38 | ER-II | Sikkim | RANGPO | Powergrid | CR | 4 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. |
| 68 | ER-I | Jharkhand | Chaibasa | Powergrid | Kiosk | 4 | 5 | Yes | Yes | done | done | done | done | done | done | |
| 69 | ER-I | BIHAR | 765kv Gaya | Powergrid | Kiosk | 11 | 12 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 24.02.2017 |
| 70 | ER-I | Jharkhand | 765/400kV Ranchi (N) | Powergrid | Kiosk | 8 | 9 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 24.02.2017 |
| 71 | ER-I | Bihar | Biharshariff | Powergrid | CR | 9 | 3 | Yes | Yes | done | done | done | done | done | done | |
| 72 | ER-I | Bihar | MUZAFFAPUR | Powergrid | CR | 5 | 2 | Yes | Yes | done | done | done | done | done | done | |
| 49 | ER-II | Sikkim | TEESTA | NHPC | CR | 1 | 1 | Yes | Yes | done | done | done | done | done | pending | SAT pending due to no supervision |
| 77 | ER-I | Jharkhand | Tenughat | Jharkhand | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | SDH panel not commisioned |
| 19 | Odisha | Orissa | U.KOLAB | OPTCL | CR | 2 | 1 | Yes | | done | done | done | | Pending | done | Communication Link not available. |
| 56 | ER-II | Sikkim | TT Pool | Powergrid | CR | 0 | 0 | No | | N/A | N/A | N/A | | N/A | N/A | Substation deleted. |
| 50 | Odisha | Orissa | Uttara | Powergrid | | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication link from s/s to ERLDC not available. |
| 47 | Odisha | Orissa | TTPS(Talcher) | OPTCL | CR | 3 | 1 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |

ER PMU site activity Summary:

| SI. No. | Region | Utility | As per approve | d BOQ | Sup | plied | Ins | talled | Comm | issioned | Integrated to ERLDC/ SLDC | |
|---------|--------|-----------|--------------------|------------|-----|-------|-----|--------|------|----------|------------------------------|-----|
| | | | No. of Substations | No. of PMU | S/S | PMU | S/S | PMU | S/S | PMU | S/S | PMU |
| 1 | ER-I | Powergrid | 15 | 94 | 15 | 94 | 14 | 92 | 14 | 92 | 10 | 76 |
| 2 | ER-I | NTPC | 2 | 10 | 2 | 10 | 2 | 10 | 1 | 4 | 0 | 0 |
| 3 | ER-I | Jharkhand | 2 | 5 | 2 | 5 | 1 | 2 | 1 | 2 | 0 | 0 |
| 4 | ER-I | Bihar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ER-I | Total | 19 | 109 | 19 | 109 | 17 | 104 | 16 | 98 | 10 | 76 |
| | | | | | | • | | | | | | • |
| 1 | ER-II | Powergrid | 10 | 41 | 10 | 42 | 9 | 35 | 8 | 33 | 7 | 29 |
| | ER-II | NHPC | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | ER-II | NTPC | 1 | 5 | 1 | 5 | 1 | 5 | 1 | 5 | 0 | 0 |
| 3 | ER-II | DVC | 13 | 37 | 13 | 37 | 13 | 37 | 13 | 37 | 7 | 22 |
| 4 | ER-II | WBSETCL | 7 | 21 | 7 | 21 | 7 | 21 | 7 | 21 | 7 | 21 |
| | ER-II | Total | 32 | 105 | 32 | 106 | 31 | 99 | 30 | 97 | 22 | 73 |
| | | | | | | • | | | | | | • |
| 1 | Odisha | Powergrid | 10 | 38 | 10 | 38 | 10 | 38 | 10 | 38 | 6 | 30 |
| 2 | Odisha | OPTCL | 8 | 29 | 7 | 19 | 6 | 16 | 6 | 16 | 5 | 14 |
| 3 | Odisha | NTPC | 1 | 5 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Odisha | IPP | 5 | 10 | 5 | 10 | 2 | 6 | 2 | 6 | 0 | 0 |
| | Odisha | Total | 24 | 82 | 23 | 72 | 18 | 60 | 18 | 60 | 11 | 44 |
| | | | | | | | | | | | | |
| | ER | Total | 75 | 296 | 74 | 287 | 66 | 263 | 64 | 255 | 43 | 193 |

Anticipated Power Supply Position for the month of Jul-18

| 9 | SL.NO | PARTICULARS | PEAK DEMAND MW | ENERGY MU |
|-----|----------|--|-------------------|--------------|
| 1 | | BIHAR | 10100 | MIO . |
| | i) | NET MAX DEMAND | 4600 | 2592 |
| | ii) | NET POWER AVAILABILITY- Own Source (including bilateral) | 900 | 177 |
| | , | - Central Sector | 3184 | 1923 |
| | iii) | SURPLUS(+)/DEFICIT(-) | -516 | -492 |
| | , | | | |
| 2 | | JHARKHAND | | |
| | i) | NET MAX DEMAND | 1270 | 790 |
| | ii) | NET POWER AVAILABILITY- Own Source (including bilateral) | 262 | 101 |
| | , | - Central Sector | 840 | 492 |
| | iii) | SURPLUS(+)/DEFICIT(-) | -167 | -196 |
| | , | | | |
| 3 | | DVC | | |
| | i) | NET MAX DEMAND (OWN) | 2750 | 1695 |
| | ii) | NET POWER AVAILABILITY- Own Source | 4500 | 2606 |
| | - | - Central Sector | 334 | 214 |
| | | Long term Bi-lateral (Export) | 1512 | 1125 |
| | iii) | SURPLUS(+)/DEFICIT(-) | 572 | 0 |
| | , | ,, ,, | | |
| 4 | | ORISSA | | 1 |
| | i) | NET MAX DEMAND | 4200 | 2678 |
| | ii) | NET POWER AVAILABILITY- Own Source | 3035 | 1680 |
| i | | - Central Sector | 1267 | 761 |
| | iii) | SURPLUS(+)/DEFICIT(-) | 102 | -237 |
| | , | | | 1 |
| 5 | | WEST BENGAL | | |
| 5.1 | | WBSEDCL | | ĺ |
| | i) | NET MAX DEMAND (OWN) | 5708 | 3547 |
| | ii) | CESC's DRAWAL | 0 | 0 |
| | iii) | TOTAL WBSEDCL'S DEMAND | 5708 | 3547 |
| | iv) | NET POWER AVAILABILITY- Own Source | 3456 | 1956 |
| | , | - Import from DPL | -15 | 0 |
| | | - Central Sector | 2263 | 1597 |
| | v) | SURPLUS(+)/DEFICIT(-) | -4 | 7 |
| | vi) | EXPORT (TO B'DESH & SIKKIM) | 200 | 7 |
| | , | Extraction (10 BBEST & STATEMENT) | 200 | , |
| 5.2 | | DPL | | |
| | i) | NET MAX DEMAND | 268 | 179 |
| | ii) | NET POWER AVAILABILITY | 253 | 90 |
| | iii) | SURPLUS(+)/DEFICIT(-) | -15 | -89 |
| | , | | | |
| 5.3 | | CESC | | |
| | i) | NET MAX DEMAND | 1850 | 1016 |
| | ii) | NET POWER AVAILABILITY - OWN SOURCE | 765 | 502 |
| | , | FROM HEL | 540 | 348 |
| | | FROM CPL/PCBL | 40 | 0 |
| | | Import Requirement | 505 | 166 |
| | iii) | TOTAL AVAILABILITY | 1850 | 1016 |
| | iv) | SURPLUS(+)/DEFICIT(-) | 0 | 0 |
| | , | | - | 1 |
| 6 | | WEST BENGAL (WBSEDCL+DPL+CESC) | | |
| | | (excluding DVC's supply to WBSEDCL's command area) | | |
| | | , · · · · · · · · · · · · · · · · · · · | | 1 |
| | i) | NET MAX DEMAND | 7826 | 4742 |
| | ii) | NET POWER AVAILABILITY- Own Source | 4474 | 2548 |
| | | - Central Sector+Others | 3348 | 1945 |
| | iii) | SURPLUS(+)/DEFICIT(-) | -4 | -249 |
| | | I | | |
| 7 | | SIKKIM | | |
| | i) | NET MAX DEMAND | 85 | 34 |
| | ii) | NET POWER AVAILABILITY- Own Source | 2 | 0 |
| | | - Central Sector+Others | 157 | 102 |
| | iii) | SURPLUS(+)/DEFICIT(-) | 75 | 67 |
| | | | | |
| 8 | | EASTERN REGION | | |
| | | At 1.03 AS DIVERSITY FACTOR | | ĺ |
| | i) | NET MAX DEMAND | 20127 | 12531 |
| | | Long term Bi-lateral by DVC | 1512 | 1125 |
| | | EXPORT BY WBSEDCL | 200 | 7 |
| | | | | |
| | ii) | NET TOTAL POWER AVAILABILITY OF ER | 22303 | 12549 |
| | | (INCLUDING C/S ALLOCATION) | | |
| | | DEAK CURRUUS() (REFIGIT() OF FR | 4/4 | 1115 |
| | iii) | PEAK SURPLUS(+)/DEFICIT(-) OF ER | 464 | -1115 |

EASTERN REGIONAL LOAD DESPATCH CENTRE

KOLKATA

| TRANSMISSION ELEMENTS OUTAGE APPROVED | FRO | | T(|) | Ī | 1 | | <u> </u> |
|--|--|---|--|---|---|---|--|--|
| SL. NAME OF THE ELEMENTS | DATE | TIME | DATE | TIME | REMARKS | S.D availed BY | Reason | SUBJECT TO CONSENT FROM AGENCY |
| Auto reclose of 400KV Balangir-Angul Line in non -auto mode | 06-06-2018 | 08:00 | 28-06-2018 | 18:00 | ODB | ER-II/Odisha/Balangir | For PID Scaning | NLDC |
| 400 KV BUS -2 AT NEW RANCHI | 13-06-2018 | 08:00 | 14-06-2018 | 18:00 | ODB | ER-I | STATCOM CONSTRUCTION | |
| 400KV Pandiabili-Mendhasal Ckt-I | 19-06-2018 | 08:00 | 19-06-2018 | 17:00 | ODB | ER-II/Odisha/ Pandiabili | For RTV coating of Porcelain equipments | GRIDCO |
| 400KV Pandiabili-Mendhasal Ckt-II | 20-06-2018 | 08:00 | 20-06-2018 | 17:00 | ODB | ER-II/Odisha/ Pandiabili | For RTV coating of Porcelain equipments | GRIDCO |
| U/C LILO at Pundi 132 KV D/C Raghunathganj- | 20-06-2018 | 09:00 | 21-06-2018 | 17:00 | ODB | POWERGRID, ER-II | Stringing work (crossing) from loc no-54A/0 to 55/0 of | WB SWITCHABLE? |
| 63MVAR Line Reactor of 400KV Pandiabili-Baripada Line at 400 k V Biharsarif - Balia - I & II | 21-06-2018 | 08:00 09:00 | 21-06-2018 23-06-2018 | 17:00 18:00 | ODB ODB | ER-II/Odisha/ Pandiabili POWERGRID ER-I | For RTV coating of Porcelain equipments FOR POWER LINE CROSSING WORK OF 400 kV | NLDC |
| 63MVAR Line Reactor of 400KV Pandiabili-Duburi Line at | 22-06-2018 | 08:00 | 22-06-2018 | 17:00 | ODB | • | For RTV coating of Porcelain equipments | SWITCHABLE? |
| Non-Auto of 400 KV Talcher- rourkela D/C Line 132 KV S/C Gokarna-Sonar Bangla T/L & 132 KV S/C Lalgola-Sonar Bangla T/L (Both Ckt) | 25-06-2018 | 09:00 | 26-06-2018 | 17:00 | ODB | ER-II/Odisha/Rengali POWERGRID,ER-II | Stringing work (crossing) from loc no-4/0 to 5/0 of LILO of 400 KV S/C Farakka-Jeerat at Sagardighi T/L | |
| 400KV BARIPADA - DUBURI LINE 220 KV BUS-I AT GAYA S/S 400 kV BIHARSARIF - SASARAM- I & II | 27-06-2018 28-06-2018 28-06-2018 | 06:00 09:00 09:00 | 28-06-2018 28-06-2018 29-06-2018 | 18:00 18:00 | ODB ODB | ER-II/Odisha/Bhadrak TL POWERGRID ER-1 POWERGRID ER-I | To attend accumulated defects under Bhadrak Sec. FOR KHIJARSARAI BAY COMMISIONING WORK FOR POWER LINE CROSSING WORK OF 400 kV | GRIDCO BSEB NLDC |
| | | | | | | | For stringing between location no- 12/0 - 13/0 of 400 KV | INCO |
| 400KV S/C FARAKKA - BEHRAMPUR T/L | 28-06-2018 | 08:00 | 28-06-2018 | 18:00 | ODB | POWERGRID,ER-II | Farakka -Behrampur D/c line | WB |
| 220 KV BUS-II AT GAYA S/S A. 220 KV D/C Sagardighi-Gokarna Transmission | 29-06-2018 29-06-2018 | 09:00 09:00 | 29-06-2018 30-06-2018 | 18:00 17:00 | ODB ODB | POWERGRID ER-1 POWERGRID,ER-II | FOR KHIJARSARAI BAY COMMISIONING WORK Stringing work (crossing) from loc no-60/0 to 61/0 of | BSEB WB |
| 400 KV Farakka- Kahalgaon-I line | 29-06-2018 | 10:00 | 29-06-2018 | 18:00 | ODB | POWERGRID,ER-II | For connecting bay-22 (Main Bay of 400 KV Farakka- | |
| 400KV S/C FARAKKA - SAGARDIGHI T/L 400 KV Farakka- Kahalgaon-III line | 30-06-2018 30-06-2018 | 08:00 10:00 | 30-06-2018 30-06-2018 | 18:00 18:00 | ODB ODB | POWERGRID,ER-II POWERGRID,ER-II | For stringing between location no- 13/0 - 14/0 of 400 KV For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon- | WB |
| 400kV D/C TL LILO to 765/400kV Kenapalli Grid S/S - A/R Non Auto mode | 01-07-2018 | 08:00 | 10-07-2018 | 18:00 | OCB | OGPTL | for Overhead Stringing of U/C 765KV D/C Raipur- Sundargarh Transmission | NLDC |
| 400kV D/C SUNDARGARH-SAHAJBAHAL Line - A/R Non Auto Mode Auto reclose of 400KV Rengali-Indrawati Line in non -auto | 01-07-2018 01-07-2018 | 08:00 08:00 | 10-07-2018 31-07-2018 | 18:00 18:00 | OCB ODB | OGPTL ER-II/Odisha/Balangir | for Overhead Stringing of U/C 765KV D/C Raipur- Sundargarh Transmission For PID Scaning | NLDC |
| 400 KV Rourkela-Sundargarh - I (One) | 01-07-2018 | 08:00 | 31-07-2018 | 17:00 | ODB | ER- | For PID Testing of Porcelin Insulator | INLUC |
| 400 KV Sundargarh-Raigarh - I (One) | 01-07-2018 | 08:00 | 31-07-2018 | 17:00 | ODB | ER- | For PID Testing of Porcelin Insulator | NLDC |
| 400 KV Rourkela-Sundargarh - II (Two) 400 KV Sundargarh - Raigarh - II (Two) | 01-07-2018 01-07-2018 | 08:00 08:00 | 31-07-2018 31-07-2018 | 17:00 17:00 | ODB ODB | ER- | For PID Testing of Porcelin Insulator For PID Testing of Porcelin Insulator | NLDC |
| 400 KV Rourkela-Sundargarh - III (Three) | 01-07-2018 | | 31-07-2018 | | ODB | ER- II/ODISHA/SUNDERGARH | For PID Testing of Porcelin Insulator | |
| 400 KV Sundargarh - Raigarh - III (Three) | 01-07-2018 | 08:00 | 31-07-2018 | 17:00 | ODB | ER- II/ODISHA/SUNDERGARH | For PID Testing of Porcelin Insulator | NLDC |
| 400 KV Rourkela-Sundargarh - IV (Four) | 01-07-2018 | 08:00 | 31-07-2018 | 17:00 | ODB | ER- II/ODISHA/SUNDERGARH | For PID Testing of Porcelin Insulator | |
| 400 KV Sundargarh - Raigarh - IV (Four) | 01-07-2018 | 08:00 | 31-07-2018 | 17:00 | ODB ODB | ER- ER- | For PID Testing of Porcelin Insulator | NLDC NLDC |
| 765 KV Angul-Jharsuguda line -I 400 kV GAJUWAKA-I LINE 500MVA ICT1 @ PATNA | 01-07-2018 01-07-2018 01-07-2018 | 08:00 09:00 08:00 | 04-07-2018 01-07-2018 | 17:00 17:30 17:30 | ODB ODB | ER-II/Odisha /Jeypore POWERGRID ER-1 | Strengthening of "A" type delta towers For Rectification of Shut Down Nature of Defects ISOLATORS ALIGNMENTS WORK | NLDC NLDC |
| 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ | 01-07-2018 | 09:00 | 03-07-2018 | 18:00 | OCB | POWERGRID ER-1 | FOR BREAKER DRIVE OVERHAULING AND BAY AMP | BSEB NLDC |
| 400/220KV 500MVA ICT-I @ PUSAULI | 01-07-2018 | 09:00 | 02-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | SHIFTING OF TRANSFORMER FOR TRANSFORMER RETROFITTING WORK | BSEB |
| 400 KV Subhasgram Jeerat Line | 01-07-2018 | 08:00 | 01-07-2018 | 17:30 | ODB | POWERGRID,ER-II | R,Y & B-Ph LA Rlacement | WB |
| 400KV BUS-I at Berhampore | 01-07-2018 | 9:00 | 01-07-2018 | 17:00 | ODB | POWERGRID,ER-II | Breaker erection for newly constructed Berhampore Farakka-Ckt-I bay (409 Bay) under ERSS-XV | NLDC |
| 400KV, 125 Mvar Bus Reactor at Powergrid, Baharampore | | 9:00 | 04-07-2018 | 17:00 | ODB | POWERGRID,ER-II | completion of Pending construction work under ERSS-XV | |
| Tie Bay of Sagardighi Berhampore Ckt-I (Tie Bay no-429) 400KV Berhampore Sagardighi Ckt-I Tie bay (Bay no- | 01-07-2018 01-07-2018 | 9:00 09:00 | 01-07-2018 20-07-2018 | 18:00 17:00 | ODB OCB | POWERGRID,ER-II POWERGRID,ER-II | Bay construction work under ERSS-XV For converting Future Bay (409 Bay) into Line Bay of | |
| 400 KV BUS-II of NTPC Farakka | 01-07-2018 | 10:00 | 01-07-2018 | 18:00 | ODB | POWERGRID,ER-II | For connecting BUS isolator of bay no-24 & 35 to BUS-II (After | |
| 220 kV Maithon-Dhanbad 1 Bay at Powergrid, Maithan | 01-07-2018 | 09:00 | 05-07-2018 | 18:00 | OCB | POWERGRID,ER-II | CB overhauling work, There will be no power for Overhead Stringing of U/C 765KV D/C Raipur- Sundargarh | NI DC |
| 765kV D/C Jharsuguda-Dharamjaygarh Line (Ckt-3 & 4) | 02-07-2018 | 08:00 | 04-07-2018 | 18:00 | OCB | OGPTL ED. II (Odisha (Angul TI | Transmission line(of OGPTL) at OGPTL Location numbers AP 129D/0- | NLDC |
| 765 KV ANGUL-SUNDERGARH LINE I S/D of 400KV Balangir-Angul line | 02-07-2018 02-07-2018 | 07:00 08:00 | 10-07-2018 03-07-2018 | | ODB ODB | ER-II/Odisha/Angul TL ER-II/Odisha/Balangir | Delta Tower strengthening work For Defect Insulators Replacement. | NLDC NLDC |
| 400 KV Indravati- Bus Reactor #1 Tie Bay (Bay No-411) | 02-07-2018 | 09:00 | 03-07-2018 | 17:00 | OCB | ER-II/Odisha/Rengali | For CT Replacement | |
| THE DAY OF BIR AND BIR WALL OF STREET | 02-07-2018 | 10:00 | 02-07-2018 02-07-2018 | 17:00 18:00 | ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | AMP WORK 50 MVAR LINE REACTOR COMMISSIONING WORK | BSEB |
| TIE BAY OF B/R AND RKL-II (411) @ CHAIBASA 400KV DALTONGANJ- SASARAM-1 LINE | 02-07-2018 | 10:00 | 02-07-2016 | 1 | <u> </u> | POWERGRID ER-1 | | |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR | 02-07-2018 02-07-2018 | 09:00 | 02-07-2018 | 16:00 | ODB | | JUMPER CONNECTION AND STABILITY TEST OF 220KV | BSEB |
| 400KV DALTONGANJ- SASARAM-1 LINE | 02-07-2018 | - | | | ODB ODB | POWERGRID ER-1 ER-I | JUMPER CONNECTION AND STABILITY TEST OF 220KV CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION | NLDC |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA | 02-07-2018 02-07-2018 02-07-2018 | 09:00 10:00 | 02-07-2018 07-07-2018 | 16:00 18:00 | ОСВ | POWERGRID ER-1 | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | NLDC |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 | 09:00 10:00 08:00 08:00 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 | 16:00 18:00 18:00 17:30 | OCB ODB ODB OCB | POWERGRID ER-1 ER-I POWERGRID ER-1 POWERGRID ER-1 | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT | NLDC AFTER RESTURATION OF BINAGURI-NEW PURNEA-III & IV BSEB |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 | 09:00 10:00 08:00 08:00 08:00 09:00 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 01-08-2018 | 16:00 18:00 18:00 17:30 17:30 18:00 | OCB ODB ODB OCB | POWERGRID ER-1 ER-I POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI 220KV SAHAPURI-PUSAULI 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 | 09:00 10:00 08:00 08:00 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 | 16:00 18:00 18:00 17:30 | OCB ODB OCB OCB OCB ODB ODB | POWERGRID ER-1 ER-I POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK FOR CVT REPLACEMENT WORK FOR COMPRESSOR OVERHAULING WORK | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB NLDC NLDC |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI 220KV SAHAPURI-PUSAULI 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ 220KV WBSETCL Subhasgram CKT#1 Bay (Bay No.207) | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 | 09:00 10:00 08:00 08:00 08:00 09:00 08:00 09:00 08:00 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 01-08-2018 03-07-2018 02-07-2018 04-07-2018 | 16:00 18:00 18:00 17:30 17:30 18:00 17:00 18:00 17:30 | OCB ODB OCB OCB OCB ODB ODB OCB | POWERGRID ER-1 ER-I POWERGRID ER-1 | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK FOR CVT REPLACEMENT WORK FOR COMPRESSOR OVERHAULING WORK CGL make CB Overhauling | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB NLDC |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI 220KV SAHAPURI-PUSAULI 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ 220KV WBSETCL Subhasgram CKT#1 Bay (Bay No.207) 400KV Berhampore Bheramara Ckt-I Main Bay (Bay no-404) at Berhampore | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 | 09:00 10:00 08:00 08:00 08:00 09:00 08:00 09:00 08:00 9:00 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 01-08-2018 03-07-2018 02-07-2018 04-07-2018 02-07-2018 | 16:00 18:00 18:00 17:30 17:30 18:00 17:00 18:00 17:30 17:00 | OCB ODB OCB OCB OCB ODB ODB OODB OODB | POWERGRID ER-1 ER-I POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID, ER-II POWERGRID, ER-II | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK FOR CVT REPLACEMENT WORK FOR COMPRESSOR OVERHAULING WORK CGL make CB Overhauling AMP work | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB NLDC NLDC |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI 220KV SAHAPURI-PUSAULI 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ 220KV WBSETCL Subhasgram CKT#1 Bay (Bay No.207) 400KV Berhampore Bheramara Ckt-I Main Bay (Bay no-404) at Berhampore 400KV Maithon-Right Bank-1 | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 | 09:00 10:00 08:00 08:00 08:00 09:00 08:00 09:00 08:00 9:00 08:00 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 01-08-2018 03-07-2018 02-07-2018 02-07-2018 02-07-2018 | 16:00 18:00 17:30 17:30 17:30 18:00 17:00 18:00 17:00 18:00 | OCB ODB OCB OCB OCB ODB ODB OCB | POWERGRID ER-1 ER-I POWERGRID ER-1 | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK FOR CVT REPLACEMENT WORK FOR COMPRESSOR OVERHAULING WORK CGL make CB Overhauling AMP work Re conductoring work | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB NLDC NLDC |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI 220KV SAHAPURI-PUSAULI 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ 220KV WBSETCL Subhasgram CKT#1 Bay (Bay No.207) 400KV Berhampore Bheramara Ckt-I Main Bay (Bay no-404) at Berhampore 400KV Maithon-Right Bank-1 400 kV Bus-II at Baripada 400 kV Bay 415 CB(GIS) at Baripada | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 03-07-2018 | 09:00 10:00 08:00 08:00 08:00 09:00 08:00 09:00 08:00 9:00 08:00 08:30 08:30 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 01-08-2018 03-07-2018 02-07-2018 02-07-2018 09-07-2018 03-07-2018 12-07-2018 | 16:00 18:00 18:00 17:30 17:30 18:00 17:00 18:00 17:00 18:00 17:30 17:30 | OCB ODB ODB OCB OCB ODB ODB OCB ODB OCB ODB OODB O | POWERGRID ER-1 ER-I POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA ER-II/Odisha/BARIPADA | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK FOR CVT REPLACEMENT WORK FOR COMPRESSOR OVERHAULING WORK CGL make CB Overhauling AMP work Re conductoring work For GIS bay EXTN works (for isolation of GIS Bus-II) For GIS Bus-II ext. works | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB NLDC NLDC WB |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI 220KV SAHAPURI-PUSAULI 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ 220KV WBSETCL Subhasgram CKT#1 Bay (Bay No.207) 400KV Berhampore Bheramara Ckt-I Main Bay (Bay no-404) at Berhampore 400KV Maithon-Right Bank-1 400 kV Bus-II at Baripada 400 kV Bay 415 CB(GIS) at Baripada 400 KV Jeypore-Rengali Tie Bay (402) | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 03-07-2018 03-07-2018 | 09:00 10:00 08:00 08:00 08:00 09:00 08:00 09:00 08:00 08:00 08:30 08:30 08:30 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 01-08-2018 03-07-2018 02-07-2018 04-07-2018 02-07-2018 09-07-2018 12-07-2018 12-07-2018 | 16:00 18:00 18:00 17:30 17:30 18:00 17:00 18:00 17:30 17:30 17:30 17:30 18:00 | OCB ODB ODB OCB OCB ODB ODB OCB ODB OOB OOB OOB OOB OOB | POWERGRID ER-1 ER-I POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA ER-II/Odisha/BARIPADA | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK FOR CVT REPLACEMENT WORK FOR COMPRESSOR OVERHAULING WORK CGL make CB Overhauling AMP work Re conductoring work For GIS bay EXTN works(for isolation of GIS Bus-II) For GIS Bus-II ext. works AMP work of 400 KV Jeypore-Rengali Tie Bay (402) | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB NLDC NLDC WB |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI 220KV SAHAPURI-PUSAULI 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ 220KV WBSETCL Subhasgram CKT#1 Bay (Bay No.207) 400KV Berhampore Bheramara Ckt-I Main Bay (Bay no-404) at Berhampore 400KV Maithon-Right Bank-1 400 kV Bus-II at Baripada 400 kV Bay 415 CB(GIS) at Baripada 400 KV Jeypore-Rengali Tie Bay (402) 50MVAR LR 315MVA ICT#2 AT ROURKELA | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 03-07-2018 03-07-2018 03-07-2018 03-07-2018 | 09:00 10:00 08:00 08:00 08:00 09:00 08:00 09:00 08:00 08:30 08:30 08:00 08:00 10:00 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 01-08-2018 03-07-2018 02-07-2018 04-07-2018 02-07-2018 03-07-2018 12-07-2018 12-07-2018 03-07-2018 03-07-2018 | 16:00 18:00 18:00 17:30 17:30 17:30 18:00 17:00 18:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 18:00 18:00 18:00 | OCB ODB ODB OCB OCB OCB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA ER-II/Odisha/Indravati ER-II/ODISHA/ROURKELA | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK FOR CVT REPLACEMENT WORK FOR COMPRESSOR OVERHAULING WORK CGL make CB Overhauling AMP work Re conductoring work For GIS bay EXTN works(for isolation of GIS Bus-II) For GIS Bus-II ext. works AMP work of 400 KV Jeypore-Rengali Tie Bay (402) AMP work of 50MVAR LR FIXING OF ALUMINIUM/STEEL ENCLOSERS FOR | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB NLDC NLDC WB GRIDCO |
| 400KV DALTONGANJ- SASARAM-1 LINE 220KV BUS-1 AT MUZAFFARPUR MAIN BAY OF KISHANGANJ-1(407) AT NEW PURNEA 765 kV 3X500 MVA ICT-I AT NEW RANCHI 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 1 315 MVA ICT2 @ PATNA 400/220KV 315MVA ICT-II @ PUSAULI 220KV SAHAPURI-PUSAULI 400KV HVDC NORTH SIDE CONVERTER TNX MAIN BAY @ 220KV WBSETCL Subhasgram CKT#1 Bay (Bay No.207) 400KV Berhampore Bheramara Ckt-I Main Bay (Bay no-404) at Berhampore 400KV Maithon-Right Bank-1 400 kV Bus-II at Baripada 400 kV Bay 415 CB(GIS) at Baripada 400 KV Jeypore-Rengali Tie Bay (402) 50MVAR LR | 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 02-07-2018 03-07-2018 03-07-2018 03-07-2018 | 09:00 10:00 08:00 08:00 08:00 09:00 08:00 09:00 08:00 08:30 08:30 08:00 08:00 | 02-07-2018 07-07-2018 03-07-2018 02-07-2018 31-07-2018 01-08-2018 03-07-2018 02-07-2018 04-07-2018 09-07-2018 03-07-2018 12-07-2018 03-07-2018 03-07-2018 | 16:00 18:00 18:00 17:30 17:30 17:30 18:00 17:00 18:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 18:00 18:00 18:00 | OCB ODB ODB OCB OCB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB | POWERGRID ER-1 ER-I POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA ER-II/Odisha/BARIPADA ER-II/Odisha/Indravati ER-II/Odisha/Indravati | CB OPERTAING MECHANISM MID LIFE OVERHAULLING STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER REPLACEMENT OF 315 MVA ICT WITH 500MVA ICT FOR TRANSFORMER RETROFITTING WORK FOR CVT REPLACEMENT WORK FOR COMPRESSOR OVERHAULING WORK CGL make CB Overhauling AMP work Re conductoring work For GIS bay EXTN works (for isolation of GIS Bus-II) For GIS Bus-II ext. works AMP work of 400 KV Jeypore-Rengali Tie Bay (402) AMP work of 50MVAR LR | NLDC AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV BSEB BSEB NLDC NLDC WB |

| 400 KV CHAIBASA - KHARAGPUR-I | 03-07-2018 | 10:00 | 03-07-2018 | 18:00 | ODB | POWERGRID ER-1 | CHECKING OF AUTORECLOSE | WB |
|---|--|---|--|---|---|--|---|-----------------------------------|
| 400 KV BUS-II AT GAYA S/S 220KV BUS-2 AT MUZAFFARPUR | 03-07-2018 03-07-2018 | 09:00 09:00 | 06-07-2018 03-07-2018 | 18:00 15:00 | ODB ODB | | FOR STRINGING & ISOLATOR, BPI ERECTION WORK FOR JUMPER CONNECTION AND STABILITY TEST OF 220KV | BSEB BSEB |
| 400 KV PTN-KSNGJ CKT1 & 400KV BSF-MUZ CKT 2 220KV RANCHI HATIA LINE-2 | 03-07-2018 03-07-2018 | 08:00 10:00 | 03-07-2018 03-07-2018 | 17:30 17:30 | ODB ODB | | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | BSEB |
| 400KV HVDC NORTH SIDE FILTER MAIN BAY @ PUSAULI | 03-07-2018 | 09:00 | 03-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | NLDC |
| 3*110MVAR 765KV BUS REACTOR BAY@PUSAULI | 03-07-2018 | 09:00 | 03-07-2018 | 18:00 | ODB | POWERGRID ER-1 | AMP WORK | NLDC |
| 220kV Alipurduar -Salakati Ckt - I | 03-07-2018 | 08:00 | 03-07-2018 | 18:00 | ODB | POWERGRID,ER-II | AMP work | NLDC |
| 400KV Berhampore Sagardighi Ckt-II Tie bay (Bay no- | 03-07-2018 | 9:00 | 03-07-2018 | 17:00 | ODB | POWERGRID,ER-II | AMP work | |
| 411) at Berhampore | 00.07.0010 | 0.00 | 00.07.0010 | 10.00 | ODB | DOMEDOND ED II | Jumper tightness fixing of arcing Horn Eirth wire VD | |
| 400 KV Baharampore -JEERAT Line | 03-07-2018 | 8:30 | 03-07-2018 | 16:00 | ODB | POWERGRID,ER-II | Conductor VD, Conductor Spacer and others hardware | WB |
| 400KV S/C FARAKKA - DURGAPUR-I T/L | 03-07-2018 | 08:00 | 03-07-2018 | 18:00 | ODB | POWERGRID,ER-II | For stringing between location no- 10/0 to 11/0 of 400 KV Farakka -Behrampur D/c line | |
| 220KV Malda- Dalkhola-II line | | 08:00 | | 10:00 | ODB | POWERGRID,ER-II | TO COLLECT CT OIL SAMPLE | |
| 22011 Manage Dammon II mie | 03-07-2018 | 00.00 | 03-07-2018 | 10.00 | 022 | 101121121212 | | |
| 220KV DLK-DLK-I | | 11:00 | | 14:00 | ODB | POWERGRID,ER-II | TO COLLECT CT OIL SAMPLE | |
| | 03-07-2018 | | 03-07-2018 | | | | | WB |
| 220KV DLK-DLK-II | | 15:00 | | 18:00 | ODB | POWERGRID,ER-II | TO COLLECT CT OIL SAMPLE | |
| | 03-07-2018 | | 03-07-2018 | | | | | WB |
| 50 MVAR BR#1 at Powergrid,Durgapur | 03-07-2018 | 09:00 | 03-07-2018 | 17:00 | ODB | POWERGRID,ER-II | Attending oil leakage from the top of the reactor tank | |
| | | | | | | | | |
| 220kV SILIGURI-DALKHOLA-I | 03-07-2018 | 08:00 | 05-07-2018 | 17:00 | OCB | ER-II | S/D required for shifting Anchor-1 on pile through installation of ERS Tower.Presently Line shorting | |
| | | | | | | | has been done at Anchor Tower-1 | |
| 220kV SILIGURI-DALKHOLA-II | 03-07-2018 | 08:00 | 05-07-2018 | 17:00 | OCB | I HK-II | S/D required for shifting Anchor-1 on pile through installation of ERS Tower.Presently Line shorting | |
| | | | | | | | has been done at Anchor Tower-2 | |
| 400KV BINAGURI-RANGPO-I | 03-07-2018 | 08:00 | 03-07-2018 | 14:00 | ODB | ER-II | FOR SPS IMPLEMENTATION AT BINAGURI END | |
| 400KV Bus-I at Keonjhar | 04-07-2018 | 09.00 | 09-07-2018 | 18.00 | ODB | ER-II/Odisha/Keonjhar | Stringing of Jack Bus over Bus-I for 125 MVAR Reactor | |
| 400 KV ICT # 2 | 04-07-2018 | 09:00 | 04-07-2018 | 17:00 | ODB | ER-II/Odisha/Rengali | For Additional Neutral Earthing | |
| 80MVAR L/R OF 400KV BSF-PURNEA-I AT BIHARSHARIF | 04-07-2018 | 09:00 | 04-07-2018 | 17:00 | ODB | POWERGRID ER-1 | AMP WORK | |
| 400 KV CHAIBASA - KHARAGPUR-2 | 04-07-2018 | 10:00 | 04-07-2018 | 18:00 | ODB | POWERGRID ER-1 | CHECKING OF AUTORECLOSE | WB |
| 200 MVA ICT-1 AT LAKHISARAI | 04-07-2018 | 08:00 | 05-07-2018 | 18:00 | ODB | POWERGRID ER-1 | CHECKING OF AIR CELL & AMP | BSEB |
| 132KV MUZ-DHALKEBAR (NEPAL) LINE | 04-07-2018 | 09:00 | 04-07-2018 | 15:00 | ODB | POWERGRID ER-1 | JUMPER CONNECTION AND STABILITY TEST OF 220KV GIS UPCOMING BAYS AT MUZAFFARPUR.S/D SHALL BE BOOKED IN CONSTRUCTION HEAD. | NLDC |
| 765 KV NRNC - RANCHI CKT-1 | 04-07-2018 | 09:00 | 04-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF INSULATORS DAMAGED BU | NLDC |
| 765 kV 3X500 MVA ICT-II AT NEW RANCHI | 04-07-2018 | 08:00 | 05-07-2018 | 18:00 | ODB | ER-I | CTATION CONCEDICATION | NLDC |
| 400 KV PTN-KSNGJ CKT 2 & 400KV BSF-MUZ CKT 1 | 04-07-2018 | 08:00 | 04-07-2018 | 17:30 | ODB | | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | |
| 220KV RANCHI CHANDIL LINE-I | 04-07-2018 | 10:00 | 04-07-2018 | 17:30 | ODB | POWERGRID ER-1 | CHANGING OF FLASH OVER INSULATOR | JUSNL |
| 400KV NORTH CONVERTER TNX_FILTER TIE BAY@ PUSAULI | 04-07-2018 | 09:00 | 04-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | NLDC |
| 220KV DEHRI-PUSAULI | 04-07-2018 | 08:00 | 04-07-2018 | 17:00 | ODB | POWERGRID ER-1 | FOR CVT REPLACEMENT WORK | BSEB |
| 400KV HVDC EAST SIDE CONVERTER TNX MAIN BAY @ | | 00.00 | 0.1.07.2010 | 10.00 | 0.07 | | FOR BREAKER DRIVE OVERHAULING AND BAY AMP | DOLD |
| PUSAULI | 04-07-2018 | 09:00 | 06-07-2018 | 18:00 | OCB | POWERGRID ER-1 | WORK | NLDC |
| 400KV ICT-I MAIN BAY@ PUSAULI 400KV Berhampore Bheramara Ckt-II Tie bay (Bay no- | 04-07-2018 | 09:00 | 07-07-2018 | 18:00 | OCB | | TO ATTEND GAS LEAKAGE IN BREAKER. | |
| 402) at Berhampore | 04-07-2018 | 9:00 | 04-07-2018 | 17:00 | ODB | POWERGRID,ER-II | Earth Switch Interlock checking and rectification. | |
| 400 KV BUS-I of NTPC Farakka | 04-07-2018 | 10:00 | 04-07-2018 | 18:00 | ODB | | For disconnecting BUS isolator of bay no-22 & 33 from BUS-I | |
| 66KV Tadong (Line#2) Feeder | | | | | ODB | POWERGRID,ER-II | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). | |
| 1 | 04-07-2018 | 09:30 | 04-07-2018 | 17:30 | ODB | POWERGRID,ER-II POWERGRID,ER-II | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus | SIKKIM |
| 400KV Teesta 3-408 bay at Powergrid,Rangpo | | 09:30 08:00 | | | | · | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus | SIKKIM |
| | 04-07-2018 | | 04-07-2018 | 17:30 | ODB OCB | POWERGRID,ER-II POWERGRID,ER-II | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet | SIKKIM |
| 400KV BINAGURI-RANGPO-II | 04-07-2018 | 08:00 | 08-07-2018 04-07-2018 | 17:30 17:00 14:00 | ODB OCB | POWERGRID,ER-II POWERGRID,ER-II ER-II | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END | |
| | 04-07-2018 | 08:00 | 08-07-2018 | 17:30 17:00 | ODB OCB | POWERGRID,ER-II POWERGRID,ER-II | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. | |
| 400KV BINAGURI-RANGPO-II | 04-07-2018 04-07-2018 05-07-2018 | 08:00 | 08-07-2018 04-07-2018 | 17:30 17:00 14:00 | ODB OCB | POWERGRID,ER-II POWERGRID,ER-II ER-II | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END | NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul | 04-07-2018 04-07-2018 05-07-2018 | 08:00 08:00 10:00 | 08-07-2018 04-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 | ODB OCB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin | NLDC NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 | 17:30 17:00 14:00 18:00 17:00 | ODB OCB ODB ODB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha /Jeypore | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects | NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 | 17:30 17:00 14:00 18:00 | ODB OCB ODB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha /Jeypore | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line | NLDC NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 | 17:30 17:00 14:00 18:00 17:00 | ODB OCB ODB ODB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha /Jeypore ER-II/Odisha/Rengali | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects | NLDC NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 08-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:30 | ODB OCB ODB ODB ODB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha /Jeypore ER-II/Odisha/Rengali | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | NLDC NLDC NLDC BSEB |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR 400 KV BIHARSHARIF - BALIA -2 | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 08:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 05-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:00 17:00 18:00 | ODB OCB ODB ODB ODB ODB ODB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | NLDC NLDC NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 08-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:30 17:00 | ODB OCB ODB ODB ODB ODB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha /Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | NLDC NLDC NLDC BSEB |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR 400 KV BIHARSHARIF - BALIA -2 | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 08:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:00 17:00 18:00 | ODB OCB ODB ODB ODB ODB ODB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | NLDC NLDC NLDC BSEB |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR 400 KV BIHARSHARIF - BALIA -2 400KV BSF-MUZ-II LINE | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 08:00 09:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 05-07-2018 05-07-2018 06-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:00 17:00 17:00 | ODB OCB ODB ODB ODB ODB ODB ODB ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER AMP | NLDC NLDC NLDC BSEB NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR 400 KV BIHARSHARIF - BALIA -2 400KV BSF-MUZ-II LINE 220 KV CHAIBASA-CHAIBASA -1 (JUSNL LINE) | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 08:00 09:00 09:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:00 17:00 18:00 17:00 | ODB | POWERGRID,ER-II POWERGRID,ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER AMP FOR ISOLATING RECENTLY CHARGED BAY FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | NLDC NLDC NLDC BSEB |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR 400 KV BIHARSHARIF - BALIA -2 400KV BSF-MUZ-II LINE 220 KV CHAIBASA-CHAIBASA -1 (JUSNL LINE) 220KV BUS-1 AT MUZAFFARPUR 400 KV PTN-KSNGJ CKT 2 & 400KV BSF-MUZ CKT 2 | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 08:00 09:00 09:00 09:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:00 17:00 18:00 17:00 13:00 12:00 17:30 | ODB | POWERGRID, ER-II POWERGRID, ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening,cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER AMP FOR ISOLATING RECENTLY CHARGED BAY FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | NLDC NLDC NLDC BSEB NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR 400 KV BIHARSHARIF - BALIA -2 400KV BSF-MUZ-II LINE 220 KV CHAIBASA-CHAIBASA -1 (JUSNL LINE) 220KV BUS-1 AT MUZAFFARPUR | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 09:00 09:00 09:00 | 08-07-2018 04-07-2018 05-07-2018 08-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:00 17:00 18:00 17:00 13:00 12:00 | ODB | POWERGRID, ER-II POWERGRID, ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER AMP FOR ISOLATING RECENTLY CHARGED BAY FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | NLDC NLDC NLDC BSEB NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR 400 KV BIHARSHARIF - BALIA -2 400KV BSF-MUZ-II LINE 220 KV CHAIBASA-CHAIBASA -1 (JUSNL LINE) 220KV BUS-1 AT MUZAFFARPUR 400 KV PTN-KSNGJ CKT 2 & 400KV BSF-MUZ CKT 2 | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 08:00 09:00 09:00 09:00 | 08-07-2018 04-07-2018 05-07-2018 06-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:00 17:00 18:00 17:00 13:00 12:00 17:30 | ODB | POWERGRID, ER-II POWERGRID, ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER AMP FOR ISOLATING RECENTLY CHARGED BAY FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | NLDC NLDC NLDC BSEB NLDC |
| 400KV BINAGURI-RANGPO-II 765kV, 3*110MVAR Bus Reactor-1 at Angul 765 KV SNG-DHARAMJAYGARH - I & II 400 kV GAJUWAKA-II LINE 401 KV ICT # 1 132 KV ARA JAGDISHPUR 400 KV BIHARSHARIF - BALIA -2 400KV BSF-MUZ-II LINE 220 KV CHAIBASA-CHAIBASA -1 (JUSNL LINE) 220KV BUS-1 AT MUZAFFARPUR 400 KV PTN-KSNGJ CKT 2 & 400KV BSF-MUZ CKT 2 400KV ALLAHABAD L/R BAY @ PUSAULI | 04-07-2018 04-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 08:00 08:00 10:00 08:00 09:00 10:00 08:00 09:00 09:00 09:00 09:00 | 08-07-2018 04-07-2018 05-07-2018 08-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 05-07-2018 | 17:30 17:00 14:00 18:00 17:00 17:00 17:00 17:00 18:00 17:00 13:00 12:00 17:30 | ODB | POWERGRID, ER-II POWERGRID, ER-II ER-II ER-II/Odisha/Angul SS ER- II/ODISHA/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Rengali POWERGRID ER-1 POWERGRID ER-1 | (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). CT tan delta and Line Isolator and Transfer Bus Isolator AMP and Dir. O/C Relay Replacemnet For rectification of SF6 gas leakage repair work FOR SPS IMPLEMENTATION AT BINAGURI END Routine changeover of Spare B/R with B/R-1. 1. S/D related works like C C Ring tightening, cotter pin inclusion, Jumper tightening checking etc. in old portion of line For Rectification of Shut Down Nature of Defects For Additional Neutral Earthing AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER AMP FOR ISOLATING RECENTLY CHARGED BAY FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | NLDC NLDC NLDC BSEB NLDC BSEB |

| 20KV WBSETCL Subhasgram CKT#2 Bay (Bay No.209) | 05-07-2018 | 08:00 | 07-07-2018 | 17:30 | OCB | POWERGRID,ER-II | CGL make CB Overhauling |] |
|--|--------------------------|-------|--------------------------|-------|-----|---------------------------------|---|-----------------|
| at Powergrid,Subhasgram 220kV Alipurduar -Salakati Ckt - II | 05-07-2018 | 08:00 | 05-07-2018 | 18:00 | ODB | POWERGRID,ER-II POWERGRID,ER-II | AMP work | WB |
| 00KV Berhampore Bheramara Ckt-I Tie bay (Bay no- | 05-07-2018 | 9:00 | 05-07-2018 | 17:00 | ODB | POWERGRID,ER-II POWERGRID,ER-II | Earth Switch Interlock checking and rectification. | NLDC |
| 05) at Berhampore 00 KV Binaguri-Purnea Ckt-1 | 05-07-2018 | 09:00 | 06/07/2018 | 17:00 | ODB | POWERGRID,ER-II POWERGRID,ER-II | Indenfied Defect insulator replacment work | |
| 00KV S/C FARAKKA - DURGAPUR-II T/L | 05-07-2018 | 08:00 | 05-07-2018 | 18:00 | ODB | POWERGRID,ER-II | For stringing between location no- 8/0 to 9/0 of 400 KV | |
| 00 KV Farakka- Kahalgaon-I line | 05-07-2018 | 10:00 | 05-07-2018 | 18:00 | ODB | POWERGRID,ER-II | Farakka -Behrampur D/c line For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kabalgaan I) from line side for augmentation of Isolaton 8, CT | |
| Main Bay of 400 KV Farakka- Kahalgaon-I (Bay-22) | 05-07-2018 | 10:00 | 20-07-2018 | 18:00 | OCB | POWERGRID,ER-II | Kahalgaon-I) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A | |
| 6KV Bulbulay (Line#1) Feeder | 05-07-2018 | 09:30 | 05-07-2018 | 17:30 | ODB | POWERGRID,ER-II | rating under ERSS-XV projects. Dir. O/C & EF Relay Replacemnet | |
| (400/220/33 KV) 315 MVA ICT-III at | 05-07-2018 | 08:00 | 05-07-2018 | 17:00 | ODB | POWERGRID,ER-II | AMP &Tertiary taking in service | SIKKIM |
| owergrid,Malda 65kV, 3*80MVAR Line Reactor-2 at Angul | 06-07-2018 | | | 18:00 | | ER-II/Odisha/Angul SS | | WB NLDC |
| 20 KV Balangir- Sadapali Line Bay(205 Bay) | 06-07-2018 | 09:00 | | 18:00 | + | ER-II/Odisha/Balangir | AMP For 205 CB and 205 CT | INLD C |
| | | | | 18:00 | + | | COMMISSIONING OF CSD IN ITS TIE BAY CB (42352 CB) & | GRIDCO |
| 25MVAR BUS REACTOR#1 AT ROURKELA | 06-07-2018 | | | | | | OVERHAULING OF MECHANICALLY JAMMED 42289A ISOLATOR | |
| 00 KV Keonjhar- Talcher #2 Tie Bay (Bay No-402) | 06-07-2018 | | | 17:00 | + | ER-II/Odisha/Rengali | For Replacement of CB Auxiliary Contact | |
| 00KV BSF-BALIA LINE-I | 06-07-2018 | 09:00 | | 17:00 | ODB | POWERGRID ER-1 | | NLDC |
| 20 KV CHAIBASA-CHAIBASA -2 (JUSNL LINE) | 06-07-2018 | 09:00 | | 13:00 | ODB | POWERGRID ER-1 | AMP | |
| 0 MVAR BR1 @ JAMSHEDPUR | 06-07-2018 | 09:30 | 06-07-2018 | 17:30 | ODB | POWERGRID ER-1 | BR1 YPHASE AIR CELL REPLACEMENT WORK | |
| 20KV BUS-2 AT MUZAFFARPUR | | 09:00 | | 12:00 | ODB | POWERGRID ER-1 | FOR ISOLATING RECENTLY CHARGED BAY | BSEB |
| 00 KV Ranchi-NPPSP-I line | 06-07-2018 06-07-2018 | 08:00 | 07-07-2018 06-07-2018 | 18:00 | | ER-I | STATCOM CONSTRUCTION FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | WB |
| 00 KV PTN-KSNGJ CKT 1 & 400KV KHL BARH CKT 1 | | 08:00 | | 17:30 | ODB | POWERGRID ER-1 | POLYMER | |
| 00KV ALLAHABAD MAIN BAY @ PUSAULI | 06-07-2018 | 09:00 | 06-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | |
| 20KV MAIN BUS-II @ PUSAULI | 06-07-2018 | 08:00 | 06-06-2020 | 18:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM For disconnecting bay-34 (Tie Bay of 400 KV Farakka- | BSEB |
| 00 KV Farakka- Kahalgaon-III line | 06-07-2018 | 10:00 | 06-07-2018 | 18:00 | ODB | POWERGRID,ER-II | Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in | |
| ie Bay of 400 KV Farakka- Kahalgaon-III (Bay-33 & 34) | 06-07-2018 | 10:00 | 20-07-2018 | 18:00 | OCB | POWERGRID,ER-II | bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. | |
| 00 Kv Bus-3 at Powergrid,Durgapur | 06-07-2018 | 09:00 | 06-07-2018 | 17:00 | ODB | POWERGRID,ER-II | Isolator Droper connection with Bus in ERSS- XVII(SPML) | |
| 6KV Lagyap (Line#3) Feeder | 06-07-2018 | 09:30 | 06-07-2018 | 17:30 | ODB | POWERGRID,ER-II | CT tan delta and Line Isolator and Transfer Bus Isolator AMP & Dir. O/C & EF Relay Replacemnet | SIKKIM |
| 20 kV Maithon-Dhanbad 2 Bay at Powergrid,Maithan | 06-07-2018 | 09:00 | 10-07-2018 | 18:00 | ОСВ | POWERGRID,ER-II | CB overhauling work, There will be no power interruption occurred. The said line will be in service | |
| 00kv Maithon- Durgapur-1 | 06-07-2018 | 09:00 | 06-07-2018 | 17:30 | ODB | POWERGRID,ER-II | Jumper rectication | |
| 65 KV, 3*500 MVA ICT 1 at Angul | 07-07-2018 | 09:00 | 07-07-2018 | 18:00 | ODB | ER-II/Odisha/Angul SS | For attending oil leakage in R phase of ICT 1 bank. | NLDC |
| 60 MVA ICT#1 at Baripada | 07-07-2018 | 09:00 | | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | AMP | GRIDCO |
| 00 KV PTN-KSNGJ CKT 1 & 400KV KHL BARH CKT 2 | 07-07-2018 | 10:00 | 07-07-2018 | 13:00 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | |
| 00KV ALLAHABAD_FUT TIE BAY @ PUSAULI | 07-07-2018 | 09:00 | 07-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | |
| 20KV PUSAULI-DEHRI | 07-07-2018 | 08:00 | 07-07-2018 | 13:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | BSEB |
| 20KV PUSAULI-ARA | 07-07-2018 | 13:00 | 07-07-2018 | 18:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | BSEB |
| 00KV HVDC EAST SIDE CONVERTER TNX_FILTER TIE BAY @ | 07-07-2018 | 09:00 | 09-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK | NLDC |
| 20 KV Birpara-Malbase | 07-07-2018 | 08:00 | 07-07-2018 | 17:30 | ODB | POWERGRID,ER-II | B-PH CVT SOS activity due to high temprature of CVT tank | NLDC |
| 32 KV Gangtok- Rangpo Line | 07-07-2018 | 09:30 | 07-07-2018 | 17:30 | ODB | POWERGRID,ER-II | Dir. O/C and EF Relay Replacemnet | SIKKIM |
| 204 BAY(Pandiabili-Samagara ckt-1) | 08-07-2018 | 10:00 | 08-07-2018 | 16:00 | ODB | ER-II/Odisha/ Pandiabili GIS | Timing and CRM of Breaker | |
| 00KV SARANATH L/R BAY @ PUSAULI | 08-07-2018 | 09:00 | 08-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | |
| 00KV 500MVA ICT-I @ PUSAULI | 08-07-2018 | 08:00 | 08-07-2018 | 12:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | BSEB |
| 20KV PUSAULI-ARA | 08-07-2018 | 12:00 | 08-07-2018 | 16:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | |
| 20KV PUSAULI-NADHOKHAR | 08-07-2018 | 16:00 | 08-07-2018 | 20:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | BSEB |
| 220KV WBSETCL KLC Bantala Line at | 08-07-2018 | 09:00 | 08-07-2018 | 17:30 | ODB | POWERGRID,ER-II | R-Ph LA Rlacement | BSEB |
| Powergrid,Subhasgram 400 KV Binaguri-Purnea Ckt-2 | 08-07-2018 | 09:00 | 9/07/2018 | 17:00 | ODB | POWERGRID,ER-II | Indenfied Defect insulator replacment work | WB |
| 220KV FARAKKA-LALMATIA T/L | 08-07-2018 | 08:00 | 08-07-2018 | 18:00 | ODB | POWERGRID,ER-II | For stringing between location no- 5/0 to 6/0 of 400 KV | |
| 132kV main BUS at Baripada | 09-07-2018 | 09:30 | | 12:30 | | ER-II/Odisha/BARIPADA | Farakka -Behrampur D/c line Bus CVT JB replacement | JUSNL GRIDCO |
| <u> </u> | | | 2.2.2010 | | | S/S | - | |
| 400KV TALCHER#2 & CHAIBASA#2 TIE BAY (BAY NO408) | 09-07-2018 | 09:00 | 10-07-2018 | 18:00 | OCB | ER-II/ODISHA/ROURKELA | FOR ARRESTING SF6 GAS LEAKAGE FROM R-PH & B-PH OF 40852 CB. | |
| | | | | | | | | |

| | 400 kV Jeypore-Indravati S/C Line | 09-07-2018 | 09:00 | 10-07-2018 | 18:00 | ODB | ER-II/Odisha /Jeypore | For Replacement of PID Defective Insulators in Jey-Ivt Line | e <mark>NLDC</mark> |
|---|---|--|---|--|---|--|--|---|--------------------------|
| | 400 KV Keonjhar Main Bay (Bay No-401) | 09-07-2018 | 09:00 | 10-07-2018 | 17:00 | ОСВ | ER-II/Odisha/Rengali | For CT Replacement | |
| | 400 KV BUS-I AT GAYA S/S | 09-07-2018 | 09:00 | 11-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR STRINGING & ISOLATOR, BPI ERECTION WORK FOR 400/220 KV ICT- III UNDER TECHNO PACKAGE | BSEB |
| | 400 KV MAIN BUS-2 AT LAKHISARAI | 09-07-2018 | 10:00 | 09-07-2018 | 14:00 | ODB | POWERGRID ER-1 | AMP | BSEB |
| | MAIN BAY OF MUZ-2(409) AT NEW PURNEA | 09-07-2018 | 10:00 | 14-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | CB OPERTAING MECHANISM MID LIFE OVERHAULLING WORK | |
| | 400 KV BUS -I AT NEW RANCHI | 09-07-2018 | 08:00 | 10-07-2018 | 18:00 | ODB | | STATCOM CONSTRUCTION | - |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 1 | 09-07-2018 | 08:00 | 09-07-2018 | 17:30 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | - |
| | 315 MVA ICT-I @ RANCHI | 09-07-2018 | 10:00 | 09-07-2018 | 17:00 | ODB | POWERGRID ER-1 | CHEKING AND RECTIFICATION OF MAIN BAY ISOLATOR (40389ARPH) CT SIDE CONTACT | JUSNL |
| | 400KV EAST SIDE BUS-I@PUSAULI | 09-07-2018 | 08:00 | 09-07-2018 | 18:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | |
| | Maintenance work for ICT-1 | 09-07-2018 | 09:30 | 14-07-2018 | 18:00 | ОСВ | BARH | Annual testing of ICT 1 | NLDC |
| | Maintenance work for ICT-1 BAY Equipments | 09-07-2018 | 09:30 | 14-07-2018 | 18:00 | ОСВ | BARH | Annual testing of Bay Equipments | _ |
| | 220KV WBSETCL Newtown Line Bay (Bay No.205) at Powergrid,Subhasgram | 09-07-2018 | 08:00 | 11-07-2018 | 17:30 | ОСВ | POWERGRID,ER-II | CGL make CB Overhauling | WB |
| | 132KV / 66KV 50 MVA ICT#2 Gangtok | 09-07-2018 | 09:00 | 09-07-2018 | 17:30 | ODB | POWERGRID,ER-II | ICT AMP Dir. O/C and EF Relay Replacemnet | SIKKIM |
| | 220KV BUS-1 at Powergrid,Rangpo | 09-07-2018 | 08:00 | 11-07-2018 | 17:00 | ОСВ | POWERGRID,ER-II | For rectification of SF6 gas leakage repair work(both Shutdown needed on same dates) | |
| | 220KV Rangpo-NEW MELLI line | 00 07 2010 | 08:00 | 11 07 9010 | 17:00 | ОСВ | POWERGRID,ER-II | For rectification of SF6 gas leakage repair work(both Shutdown needed on same dates) | |
| | 220 kV Siliguri -New Siliguri (Binaguri) - I | 09-07-2018 09-07-2018 | 10:00 | 11-07-2018 09-07-2018 | 17:00 | ODB | POWERGRID,ER-II | AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt- I; Bay -204 at Siliguri | |
| | 160MVA ICT-II at Powergrid,Malda | 09-07-2018 | 08:00 | 09-07-2018 | 16:00 | ODB | POWERGRID,ER-II | AMP work | - |
| | 220 KV Bus Coupler Bay (204 Bay) | 10-07-2018 | 09:00 | 10-07-2018 | 18:00 | ODB | ER-II/Odisha/Balangir | AMP For 204 CB and 204 CT | WB |
| | 400KV TIE Bay (40102 BAY) of ICT-I & Balangir-Angul line | 10-07-2018 | 09:00 | 13-07-2018 | 18:00 | ODB | ER-II/Odisha/Balangir | Cleaning, painting and plaster work of newly constructed ACP Room under 125 MVAR Bus Reactor Bay extension | - |
| | 765 KV SNG-DHARAMJAYGARH - III & IV | 10-07-2018 | 08:00 | 14-07-2018 | 17:00 | ODB | ER- II/ODISHA/SUNDERGARH | Maintenance works and coonection with new portion of balance line after swapping arrangement (Under Antitheft | NLDC |
| | 400 KV Sundargarh - Raigarh - II & IV | 10-07-2018 | 08:00 | 11-07-2018 | 17:00 | ODB | | Charging) For tree /Bamboo cutting at Loc No. 426 AND S/D related | |
| | 400KV BSF-BANKA-I LINE | 10-07-2018 | 09:00 | 10-07-2018 | 17:00 | ODB | POWERGRID ER-1 | AM RRSR FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | 1 |
| | 400 KV CHAIBASA JAMSHEDPUR LINE 2 | 10-07-2018 | 09:00 | 10-07-2018 | 18:00 | ODB | POWERGRID ER-1 | POLYMER CHECKING OF AUTORECLOSE | - |
| 1 | | | | | | | | | |
| | 80 MVAR LR in Patna- Klshangani CKT II | 10-07-2018 | 10:00 | 10-07-2018 | 15:00 | | | | - |
| | 80 MVAR LR in Patna- Klshanganj CKT II 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 | 10-07-2018 | 10:00 | 10-07-2018 | 15:00 | ODB | POWERGRID ER-1 | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | _ |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 | 10-07-2018 | 08:00 | 10-07-2018 | 17:30 | ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND | _ |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 | 10-07-2018 | 08:00 | 10-07-2018 | 17:30 17:00 | ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK | _ - - |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 | 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 | 10-07-2018 10-07-2018 10-07-2018 | 17:30 17:00 17:00 | ODB ODB OCB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR | NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI | 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 | 10-07-2018 10-07-2018 10-07-2018 | 17:30 17:00 17:00 18:00 | ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK | - |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 | 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 | 10-07-2018 10-07-2018 10-07-2018 | 17:30 17:00 17:00 | ODB ODB OCB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR | - |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400kV Fkk-DGP Line-2 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 | ODB ODB ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test | NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 08:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 17:30 17:00 17:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID, ER-II | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work | NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 09:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 17:30 17:00 17:00 18:00 17:00 18:00 17:00 | ODB ODB ODB ODB ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID,ER-II POWERGRID,ER-II | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test | NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 08:00 9:00 08:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 18:00 | ODB ODB ODB ODB ODB ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line | NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 09:00 08:00 9:00 08:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:30 | ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line Fitting of CC ring & Arching horn | NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 08:00 9:00 08:00 08:00 09:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 11-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:00 | ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer | NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur 400KV Maithon-Right Bank-2 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 09:00 08:00 08:00 08:00 08:00 08:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 10-07-2018 23-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:30 17:00 18:00 | ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) | NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur 400KV Maithon-Right Bank-2 220 kV Siliguri -New Siliguri (Binaguri) - II | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 08:00 9:00 08:00 08:00 08:00 10:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 11-07-2018 10-07-2018 10-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:30 17:00 18:00 17:00 | ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt-II; Bay-203 at Siliguri | NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur 400KV Maithon-Right Bank-2 220 kV Siliguri -New Siliguri (Binaguri) - II 765 KV ANGUL-SUNDERGARH LINE II | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 | 08:00 09:00 11:00 09:00 08:00 09:00 08:00 9:00 08:00 08:00 09:00 08:00 07:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 23-07-2018 10-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 | ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID,ER-II ER-II/Odisha/Angul TL ER- | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt-II; Bay-203 at Siliguri Delta Tower strengthening work For attending camera patrolling defects and changing | NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur 400KV Maithon-Right Bank-2 220 kV Siliguri -New Siliguri (Binaguri) - II 765 KV ANGUL-SUNDERGARH LINE II 400Kv Indravati-Rengali S/c Line | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 | 08:00 09:00 11:00 09:00 08:00 08:00 9:00 08:00 08:00 08:00 09:00 07:00 07:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 10-07-2018 23-07-2018 20-07-2018 13-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 | ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID, ER-II ER-II/Odisha/Angul TL ER-II/Odisha/Angul TL | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt-II; Bay-203 at Siliguri Delta Tower strengthening work For attending camera patrolling defects and changing displaced Rigid spacers in tension tower Jumpers. | NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur 400KV Maithon-Right Bank-2 220 kV Siliguri -New Siliguri (Binaguri) - II 765 KV ANGUL-SUNDERGARH LINE II 400KV Indravati-Rengali S/c Line 400KV Bus-II at Keonjhar | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 | 08:00 09:00 11:00 09:00 08:00 09:00 08:00 9:00 08:00 08:00 09:00 07:00 07:00 09.00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 23-07-2018 23-07-2018 20-07-2018 13-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 | ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/Angul TL ER-II/Odisha/BHAWANIPATN A TI ER-II/Odisha/Keonjhar ER-II/Odisha/Keonjhar | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt-II; Bay-203 at Siliguri Delta Tower strengthening work For attending camera patrolling defects and changing displaced Rigid spacers in tension tower Jumpers. Stringing of Jack Bus over Bus-II for 125 MVAR Reactor | NLDC NLDC NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV EAST SIDE BUS-II@PUSAULI 400KV Fkk-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid,Durgapur 400KV Maithon-Right Bank-2 220 kV Siliguri -New Siliguri (Binaguri) - II 765 KV ANGUL-SUNDERGARH LINE II 400Kv Indravati-Rengali S/c Line 400KV Bus-II at Keonjhar 766 KV Angul-Jharsuguda line -II | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 11-07-2018 | 08:00 09:00 11:00 09:00 08:00 08:00 9:00 08:00 08:00 08:00 07:00 07:00 07:00 09:00 08:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 10-07-2018 23-07-2018 20-07-2018 13-07-2018 16-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 | ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 FARAKKA POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/Angul TL ER-II/Odisha/BHAWANIPATNA TI ER-II/Odisha/Keonjhar ER-II/Odisha/Keonjhar | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka - Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt-II; Bay-203 at Siliguri Delta Tower strengthening work For attending camera patrolling defects and changing displaced Rigid spacers in tension tower Jumpers. Stringing of Jack Bus over Bus-II for 125 MVAR Reactor Strengthening of "A" type delta towers | NLDC NLDC NLDC NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV FKK-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur 400KV Maithon-Right Bank-2 220 kV Siliguri -New Siliguri (Binaguri) - II 765 KV ANGUL-SUNDERGARH LINE II 400KV Bus-II at Keonjhar 766 KV Angul-Jharsuguda line -II 400KV Jeypore - Bolangir Line at Jeypore | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 11-07-2018 | 08:00 09:00 11:00 09:00 08:00 09:00 08:00 9:00 08:00 09:00 08:00 10:00 07:00 07:00 09:00 08:00 09:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 23-07-2018 20-07-2018 13-07-2018 16-07-2018 20-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 | ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID, ER-II ER-II/Odisha/Angul TL ER-II/Odisha/BHAWANIPATNA TI ER-II/Odisha/Keonjhar ER-II/Odisha/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka - Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt-II; Bay-203 at Siliguri Delta Tower strengthening work For attending camera patrolling defects and changing displaced Rigid spacers in tension tower Jumpers. Stringing of Jack Bus over Bus-II for 125 MVAR Reactor Strengthening of "A" type delta towers | NLDC NLDC NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV FKK-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur 400KV Maithon-Right Bank-2 220 kV Siliguri -New Siliguri (Binaguri) - II 765 KV ANGUL-SUNDERGARH LINE II 400KV Bus-II at Keonjhar 766 KV Angul-Jharsuguda line -II 400KV Jeypore - Bolangir Line at Jeypore 205 BAY (Pandiabili-Samagara- ckt-2) | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 11-07-2018 | 08:00 09:00 11:00 09:00 08:00 09:00 08:00 08:00 08:00 08:00 09:00 07:00 07:00 07:00 09:00 10:00 10:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 10-07-2018 23-07-2018 20-07-2018 13-07-2018 16-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 | ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID, ER-II ER-II/Odisha/Angul TL ER-II/Odisha/Angul TL ER-II/Odisha/BHAWANIPATNA TI ER-II/Odisha/Keonjhar ER-II/Odisha/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka -Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt-II; Bay-203 at Siliguri Delta Tower strengthening work For attending camera patrolling defects and changing displaced Rigid spacers in tension tower Jumpers. Stringing of Jack Bus over Bus-II for 125 MVAR Reactor Strengthening of "A" type delta towers For Rectification of Shut Down Nature of Defects | NLDC NLDC NLDC NLDC NLDC |
| | 400 KV PTN-KSNGJ CKT 2 & 400KV KHL BARH CKT 2 220 KV PURNEA DALKHOLA-1 400KV RANCHI SIPAT CKT-2 400KV SARANATH MAIN BAY @ PUSAULI 400KV FKK-DGP Line-2 400KV Alipurduar-Bongaigaon-II 400KV Berhampore Bheramara Ckt-I Line Bay (404L Bay) at Berhampore 400KV D/C FARAKKA - KAHALGAON -(I & II) T/L 220KV BIRPARA -NSLG-I 400 kv Bus-1 at Powergrid, Durgapur 400KV Maithon-Right Bank-2 220 kV Siliguri -New Siliguri (Binaguri) - II 765 KV ANGUL-SUNDERGARH LINE II 400KV Bus-II at Keonjhar 766 KV Angul-Jharsuguda line -II 400KV Jeypore - Bolangir Line at Jeypore | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 11-07-2018 | 08:00 09:00 11:00 09:00 08:00 09:00 08:00 9:00 08:00 09:00 08:00 10:00 07:00 07:00 09:00 08:00 09:00 | 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 10-07-2018 11-07-2018 11-07-2018 23-07-2018 20-07-2018 13-07-2018 16-07-2018 20-07-2018 | 17:30 17:00 17:00 18:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 18:00 17:00 | ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID, ER-II ER-II/Odisha/Angul TL ER-II/Odisha/BHAWANIPATNA TI ER-II/Odisha/Keonjhar ER-II/Odisha/SUNDERGARH ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore | AMP FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK CHANGING OF FLASH OVER INSULATOR FOR COMPRESSOR OVERHAULING WORK TO ATTEND ISOLATOR MISALIGNMENT PROBLEM Relay test AMP work Relay testing under AMP schedule For stringing between location no- 4/0 to 5/0 of 400 KV Farakka - Behrampur D/c line Fitting of CC ring & Arching horn busbar protection checking by ABB engineer Re conductoring work AMP of 220 KV Siliguri -New Siliguri (Binaguri) Ckt-II; Bay-203 at Siliguri Delta Tower strengthening work For attending camera patrolling defects and changing displaced Rigid spacers in tension tower Jumpers. Stringing of Jack Bus over Bus-II for 125 MVAR Reactor Strengthening of "A" type delta towers For Rectification of Shut Down Nature of Defects Timing and CRM of Breaker | NLDC NLDC NLDC NLDC NLDC |

| 400/220KV, 315MVA ICT-3 @ JAMSHEDPUR | 11-07-2018 | 09:30 | 11-07-2018 | 17:30 | ODB | POWERGRID ER-1 | CSD TESTING WORK | JUSNL |
|---|------------|-------|------------|-------|-----|---|---|--|
| 80 MVAR BUS REACTOR AT LAKHISARAI | 11-07-2018 | 08:00 | 12-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR CHECKING/RECTIFICATION OF ALIGNMENT OF BUS REACTOR ISOLATOR | JOSINE |
| 400 KV CHANDAWA - GAYA CKT-2 | 11-07-2018 | 09:00 | 11-07-2018 | 18:00 | ODB | POWERGRID ER-1 | REPLACEMENT OF INSULATORS FLASHED OVER DUE TO LIGHTNING | |
| 400 KV Ranchi-NPPSP-II line | 11-07-2018 | 08:00 | 12-07-2018 | 18:00 | ODB | ER-I | STATCOM CONSTRUCTION | |
| 220 KV PURNEA DALKHOLA-2 | 11-07-2018 | 09:00 | 11-07-2018 | 17:00 | ОСВ | POWERGRID ER-1 | POWERGRID FOR AUTO RECLOSE RELAY CHECKING AND RECTIFICATION WORK | WB |
| 400KV SARANATH_FUT TIE BAY @ PUSAULI | 11-07-2018 | 09:00 | 11-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | |
| 400KV NORTH SIDE BUS-I@PUSAULI | 11-07-2018 | 08:00 | 11-07-2018 | 18:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | |
| 400KV NORTH SIDE FILTER MAIN BAY@PUSAULI | 11-07-2018 | 09:00 | 13-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | FOR BREAKER DRIVE OVERHAULING AND BAY AMP | NLDC |
| 765/400KV, 1500MVA, ICT FOR REGULAR CHANGEOVER IN 06 | 11-07-2018 | 09:00 | 13-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | WORK 02 DAYS FOR STABILITY TEST AND CHANGING OF DELTA CONNECTION IN LV SIDE AND 01 DAY FOR IDLE | NLDC |
| MONTH @ PUSAULI 400KV Berhampore Bheramara Ckt-II Line Bay (401L | 11-07-2018 | 9:00 | 11-07-2018 | 17:00 | ODB | | CHARGING (WITHOUT LOAD) FOR 24 HRS DUF TO FIRST Relay testing under AMP schedule | NLDC |
| Bay) at Berhampore 132KV / 66KV 50 MVA ICT#1 Gangtok | 11-07-2018 | 09:00 | 11-07-2018 | 17:30 | ODB | | ICT AMP Dir. O/C and EF Relay Replacemnet | |
| 220 kV Maithon-Kalyaneswari line 1 Bay at | | | | | | | | SIKKIM |
| Powergrid, Maithan | 11-07-2018 | 09:00 | 11-07-2018 | 18:00 | ODB | | Replacement Isolator Arm | |
| 765 KV, 3*500 MVA ICT 2 at Angul | | 09:00 | 12-07-2018 | 18:00 | ODB | ER-II/Odisha/Angul SS ER-II/Odisha/BARIPADA | For Replacing NRV of B-phase of ICT 2 bank. For GIS bay EXTN works(for recoonecting jumpers to GIS | NLDC |
| 400 kV Bus-II at Baripada | 12-07-2018 | 08:30 | 12-07-2018 | 17:30 | ODB | | Bus-II) OVERHAULING OF MECHANICALLY JAMMED 40589B | GRIDCO |
| 400KV TALCHER#1 TIE BAY (BAY NO405) | 12-07-2018 | 09:00 | 12-07-2018 | 18:00 | ODB | ER-II/ODISHA/ROURKELA | ISOLATOR | |
| 400 KV PATNA - BALIA -4 | 12-07-2018 | 08:00 | 12-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | NLDC |
| MAIN BAY OF 400KV BSF-LAKHISARAI-1 (413) AT BIHARSHARIF | 12-07-2018 | 09:00 | 12-07-2018 | 17:00 | ODB | POWERGRID ER-1 | AMP WORK | |
| 400 KV PTN-KSNGJ CKT 1 | 12-07-2018 | 08:00 | 12-07-2018 | 17:30 | ODB | POWERGRID ER-1 | E/W RECTIFICATION OF PAT-KSG#1 AT XING POINT OF 400 PAT-BALIA 1&2 | AFTER RESTORATION OF BINAGURI-NEW PURNEA-III & IV |
| 400 KV PTN-BALIA 1 & 2 | 12-07-2018 | 10:00 | 12-07-2018 | 13:00 | ODB | POWERGRID ER-1 | E/W RECTIFICATION OF PAT-KSG#1 AT XING POINT OF 400 PAT-BALIA 1&2 | NLDC |
| 400KV HVDC EAST SIDE CONVERTER TNX MAIN BAY @ PUSAULI | 12-07-2018 | 09:00 | 12-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | |
| 400KV NORTH SIDE BUS-II@PUSAULI | 12-07-2018 | 08:00 | 12-07-2018 | 18:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | NLDC |
| 765KV FATEHPUR LINE MAIN BAY @ PUSAULI | 12-07-2018 | 09:00 | 12-07-2018 | 18:00 | ODB | POWERGRID ER-1 | AMP WORK | NLDC |
| 400kV Bay 13 & 14 | 12-07-2018 | 09:00 | 13-07-2018 | 17:00 | ODB | FARAKKA | CT testing | NLDC |
| 220KV WBSETCL KLC Bantala Bay (Bay No.206) at Powergrid,Subhasgram | 12-07-2018 | 08:00 | 14-07-2018 | 17:30 | OCB | POWERGRID,ER-II | CGL make CB Overhauling | WB |
| 125MVAR BR - 2 at Powergrid,Alipurduar | 12-07-2018 | 10:00 | 12-07-2018 | 13:00 | ODB | POWERGRID,ER-II | Bushing Tan Delta measurement | |
| 220KV BIRPARA -NSLG-II | 12-07-2018 | 08:00 | 13-07-2018 | 17:30 | ODB | POWERGRID,ER-II | Fitting of CC ring & Arching horn | |
| 132KV / 66KV 50 MVA ICT#2 Gangtok | 12-07-2018 | 09:00 | 12-07-2018 | 17:30 | ODB | POWERGRID,ER-II | | SIKKIM |
| 220 kV Maithon-Kalyaneswari 1 Bay at Powergrid,Maithan | 12-07-2018 | 09:00 | 16-07-2018 | 18:00 | ОСВ | POWERGRID,ER-II | CB overhauling work, There will be no power interruption occurred. The said line will be in service | |
| 400\220kV 315 MVA ICT-2 at Powergrid,Rangpo | 12-07-2018 | 08:00 | 15-07-2018 | 17:00 | ОСВ | POWERGRID,ER-II | For rectification of SF6 gas leakage repair work | |
| 400 kV Bus-I at Baripada | 13-07-2018 | 08:30 | 13-07-2018 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | For GIS bay EXTN works(for isolation of GIS Bus-I) | GRIDCO |
| 400 kV Bay 413CB(GIS) at Baripada | 13-07-2018 | 08:30 | 22-07-2018 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | For GIS Bus-I ext. works | |
| Indravati Line - Gajuwaka-I TieBay (411) at Jeypore | 13-07-2018 | 09:00 | 13-07-2018 | 18:00 | ODB | ER-II/Odisha /Jeypore | For AMP Works | |
| 206 BYA(Bus coupler Bay) | 13-07-2018 | 10:00 | 13-07-2018 | 16:00 | ODB | ER-II/Odisha/ Pandiabili GIS | Timing and CRM of Breaker | |
| TIE BAY OF ICT-2 & BR-3 (423) AT BIHARHSARIF | 13-07-2018 | 09:00 | 13-07-2018 | 17:00 | ODB | POWERGRID ER-1 | AMP WORK | |
| 400KV CHAIBASA-ROURKELA 2 | 13-07-2018 | 09:30 | 13-07-2018 | 17:30 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | |
| 400KV HVDC EAST SIDE FILTER MAIN BAY @ PUSAULI | 13-07-2018 | 09:00 | 13-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | NI DC |
| HVDC ALONG WITH AC BYPASS @ PUSAULI | 13-07-2018 | 08:00 | 13-07-2018 | 18:00 | ODB | POWERGRID ER-1 | TO ATTEND ISOLATOR MISALIGNMENT PROBLEM | NLDC |
| 400KV EAST SIDE FILTER MAIN BAY@PUSAULI | 13-07-2018 | 09:00 | 15-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK | NLDC |
| 63 MVAR ALLAHABAD LINE REACTOR(NORTH SIDE) BAY @ PUSAULI | 13-07-2018 | 09:00 | 15-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | FOR BREAKER DRIVE OVERHAULING AND BAY AMP | NLDC |
| 132 KV Gangtok- Rangpo Line | 13-07-2018 | 09:30 | 13-07-2018 | 17:30 | ОСВ | POWERGRID,ER-II | Implementation of Auto reclose scheme, Balance | SWITCHABLE? |
| 315MVA ICT-II at Baripada | | 09:30 | 14-07-2018 | 17:30 | ODB | ER-II/Odisha/BARIPADA | AMP work of Line AMP works | SIKKIM GRIDCO |
| Indravati Line Main Bay (410) at Jeypore | | 09:00 | 14-07-2018 | 18:00 | ODB | S/S ER-II/Odisha /Jeypore | For AMP Works | |
| 765 KV GAYA BALIA | | 08:00 | | 18:00 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | |
| | 14-07-2018 | | 16-07-2018 | | | | POLYMER FOR COMPRESSOR OVERHALLING WORK | NLDC |
| 400KV EAST CONVERTER TNX_FILTER TIE BAY@ PUSAULI | 14-07-2018 | 09:00 | 14-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | NLDC |

| 13 | 32KV Chuzachen-Gangtok line | 14-07-2018 | 08:00 | 19-07-2018 | 17:00 | ODB | | Balance Porcelin Insulator repacement with CLR | NLDC |
|-----|--|--------------------------|--|--------------------------|--|------------|---------------------------------|---|---------------|
| | | | | | 11.00 | ODB | POWERGRID,ER-II | insulator and Dir. O/C & EF Relay Replacemnet at | SIKKIM |
| 76 | B2KV MALDA-WBSETCL-I | 14-07-2018 | 07:00 | 14-07-2018 | 16:00 | ODB | POWERGRID,ER-II | Numerical over current relay commissioning | WB |
| l í | 65 KV Angul-Jharsuguda Bay (III & IV) | 15-07-2018 | 08:00 | 15-07-2018 | 17:00 | ODB | ER- II/ODISHA/SUNDERGARH | Coonection of 765 KV Angul-Jharsuguda line (III & IV) for line charging | NLDC |
| 20 | 07 BAY(200KV side ICT-1 BAY) | 15-07-2018 | 10:00 | 15-07-2018 | 16:00 | ODB | ER-II/Odisha/ Pandiabili GIS | Timing and CRM of Breaker | |
| 40 | 00KV BIHARSHARIF-I L/R BAY @ PUSAULI | 15-07-2018 | 09:00 | 15-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | CM/ITCHADI F2 |
| | 20KV WBSETCL Subhasgram CKT#1 Line at owergrid,Subhasgram | 15-07-2018 | 09:00 | 15-07-2018 | 17:30 | ODB | POWERGRID,ER-II | Y & B-Ph LA Rlacement | SWITCHABLE? |
| | 00KV BUS-I at Sagardighi WBPDCL | | 09:00 | | 17:00 | ODB | POWERGRID,ER-II | BUS Pipe extension from existing BUS under ERSS-XV. | WB |
| 13 | B2KV MALDA-WBSETCL-II | 15-07-2018 15-07-2018 | 07:00 | 16-07-2018 15-07-2018 | 16:00 | ODB | POWERGRID,ER-II | Numerical over current relay commissioning | WB |
| 40 | 00 KV UIHEP-BR Tie Bay (411) | 16-07-2018 | 08:00 | 16-07-2018 | 18:00 | ODB | ER-II/Odisha /Indravati | AMP work of 400 KV UIHEP-BR Tie Bay (411) | WB |
| 40 | DOKV ROURKELA-SUNDARGARH#1 | 16-07-2018 | 09:00 | 16-07-2018 | 18:00 | ODB | ER-II/ODISHA/ROURKELA | MEGGERING OF R-PHASE LA DUE TO HIGH THRC VALUE. | |
| 22 | 20KV JEYNAGAR-I Line | 16-07-2018 | 09:30 | 16-07-2018 | 17:30 | ODB | ER-II/Odisha /Jeypore | For Isolator Retrofitting works (220KV Jeynagari TBC | GRIDCO |
| 76 | S5 KV BUS-I AT GAYA S/S | 16-07-2018 | 09:00 | 16-07-2018 | 18:00 | ODB | POWERGRID ER-1 | Isolator) FOR AMP WORK | |
| | 00 MVA ICT-2 & 80 MVAR BUS REACTOR AT LAKHISARAI | 16-07-2018 | 08:00 | 19-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FIRE WALL CONSTRUCTION, CHECKING OF AIRCEL OF | NLDC |
| | AIN BAY OF MUZ1(412) AT NEW PURNEA | 16-07-2018 | 10:00 | 21-07-2018 | 18:00 | OCB | POWERGRID ER-1 | ICT-2 CB OPERTAING MECHANISM MID LIFE OVERHAULLING | |
| | e Bay of 400 kV PPSP - I and Patratu -I AT NEW RANCHI | 16-07-2018 | | 16-07-2018 | | | | WORK | |
| | ONLY AND AND ON THE TIPE DAY AND THE CONTROL OF THE | 12.07.00 | 08:00 | 10.07.00 | 18:00 | | ER-I | AMP FOR BREAKER DRIVE OVERHAULING AND BAY AMP | |
| | 20kV Fkk-Kahalgaon Line-2 | 16-07-2018 16-07-2018 | 09:00 09:00 | 18-07-2018 16-07-2018 | 18:00 17:00 | OCB ODB | POWERGRID ER-1 FARAKKA | WORK | NLDC |
| | 20KV ICT#1 Bay (Bay No.208) at | | _ | | | | | - | |
| Po | owergrid,Subhasgram | 16-07-2018 | 08:00 | 18-07-2018 | 17:30 | OCB | POWERGRID,ER-II | CGL make CB Overhauling | WB |
| 22 | 20\132 Kv 100 MVA ICT-2 at Powergrid,Rangpo | 16-07-2018 | 08:00 | 19-07-2018 | 17:00 | OCB | POWERGRID,ER-II | For rectification of SF6 gas leakage repair work | |
| 76 | 65 KV, 3*500 MVA ICT 3 at Angul | 17-07-2018 | 09:00 | 17-07-2018 | 18:00 | ODB | ER-II/Odisha/Angul SS | For Replacing NRV of R-phase of ICT 2 bank. For S/D related works like C C Ring tightening,cotter pin | NLDC |
| 40 | 00 KV Rourkela-Sundargarh - II (Two) | 17-07-2018 | 08:00 | 17-07-2018 | 17:00 | ODB | ER- II/ODISHA/SUNDERGARH | inclusion, VD displaced work, Jumper tightening checking | |
| 22 | 20KV JEYNAGAR-II Line | 17-07-2018 | 09:30 | 17-07-2018 | 17:30 | ODB | ER-II/Odisha /Jeypore | For Isolator Retrofitting works (220KV JeynagarII TBC Isolator) | GRIDCO |
| | S5 KV BUS-II AT GAYA S/S | 17-07-2018 | 10:00 | 17-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR AMP WORK | NLDC |
| Ma | ain Bay of Patratu - I AT NEW RANCHI | 17-07-2018 | 08:00 | 17-07-2018 | 18:00 | ODB | ER-I | AMP | |
| 400 | 00 KV PTN-BRH CKT – II & 400KV KHL BARH CKT-I | 17-07-2018 | 08:00 | 17-07-2018 | 15:30 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | |
| 40 | 00 KV PTN-BRH CKT – I & 400KV KHL BARH CKT-II | 17-07-2018 | 08:00 | 17-07-2018 | 15:30 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | |
| 40 | 00KV BIHARSHARIF-I MAIN BAY @ PUSAULI | 17-07-2018 | 09:00 | 17-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | |
| 12: | 25MVAR BUS REACTOR-II MAIN BAY | 17-07-2018 | 09:00 | 17-07-2018 | 18:00 | ODB | POWERGRID ER-1 | AMP WORK | |
| 40 | 00KV BUS-II at Sagardighi WBPDCL | 17-07-2018 | 09:00 | 18-07-2018 | 17:00 | ODB | POWERGRID,ER-II | BUS Pipe extension from existing BUS under ERSS-XV. | WB |
| 22 | 20KV MAIN BUS-I at Powergrid,Birpara | 17-07-2018 | 08:00 | 17-07-2018 | 17:30 | ODB | POWERGRID,ER-II | MAIN BUS-1 CVT SOS activity | WB |
| 13 | 32KV / 66KV 50 MVA ICT#1 Gangtok | 17-07-2018 | 09:00 | 17-07-2018 | 17:30 | ODB | POWERGRID,ER-II | Dir. O/C and EF Relay Replacemnet | SIKKIM |
| | 20 kV Maithon-Kalyaneswari line 2 Bay at owergrid,Maithan | 17-07-2018 | 09:00 | 17-07-2018 | 18:00 | ODB | POWERGRID,ER-II | Replacement Isolator Arm | - INIXIIVI |
| | 00 KV MALDA BUS-I | 17-07-2018 | 09:00 | 17-07-2018 | 17:00 | ODB | FARAKKA | BUS DIFFERENTIAL PROTECTION CIRCUIT TESTING & CHECKING | |
| 40 | 00 KV Chandawa - Gaya Ckt-1 | 17-07-2018 | 09:00 | 17-07-2018 | 18:00 | ODB | POWERGRID ER-1 | Replacement of Insulators flashed over due to lightning | |
| 40 | 00KV ROURKELA-SUNDARGARH#2 | 18-07-2018 | 08:00 | 18-07-2018 | 18:00 | ODB | ER-II/ODISHA/ROURKELA | RE-FIXING OF JUMPER BOLT, CC RING BOLT, VD, FIXING OF SPLIT PINS FOUND IN CROSS PATROLLING. | |
| IC' | T-I (3x 105 MVA) at Jeypore | 18-07-2018 | 09:30 | 18-07-2018 | 17:30 | ODB | ER-II/Odisha /Jeypore | For Isolator Retrofitting works (220KV ICT I TBC Isolator) | GRIDCO |
| 20 | 08 BAY(220KV Pandiabili-Atri-2) | 18-07-2018 | 10:00 | 18-07-2018 | 16:00 | ODB | ER-II/Odisha/ Pandiabili GIS | Timing and CRM of Breaker | |
| 76 | S5KV S/C GAYA-BALIA LINE | 18-07-2018 | 09:00 | 19-07-2018 | 18:00 | ODB | POWERGRID ER-1 | TIGHTENING OF JUMPER & HARDWARE FITTING. | NLDC |
| 76: | 55 /400 KV ICT-III AT GAYA SS | 18-07-2018 | 09:00 | 19-07-2018 | 18:00 | ODB | POWERGRID ER-1 | TOWER ERECTION WORK FOR ICT-4 UNDER GE | NLDC |
| 22 | 20 KV BUS-I @ PATNA | 18-07-2018 | 09:30 | 19-07-2018 | 17:30 | ODB | POWERGRID ER-1 | ISOLATORS ALIGNMENTS WORK | BSEB |
| 40 | 00KV RANCHI - ROURKELA -2 | 18-07-2018 | 10:00 | 18-07-2018 | 17:00 | ODB | POWERGRID ER-1 | FIXING OF LINE EARTH SWITCH ARM IN YPH | 2020 |
| 40 | 00KV BIHARSHARIF-I _ICT-II TIE BAY @ PUSAULI | 18-07-2018 | 09:00 | 18-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | |
| | 00KV D/C Berhampore Sagardighi CKT-I | 18-07-2018 | 8:30 | 18-07-2018 | 16:00 | ODB | POWERGRID,ER-II | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware | NA/D |
| 40 | | | the state of the s | | The second secon | · · | | , January Spacer and officia hardward | WB |

| 132KV / 66KV 50 MVA ICT#2 Gangtok | 18-07-2018 | 09:00 | 18-07-2018 | 17:30 | ODB | POWERGRID,ER-II | Dir. O/C and EF Relay Replacemnet | SIKKIM |
|--|--|--|--|--|---|--|--|---|
| 220 kV Maithon-Kalyaneswari 2 Bay at Powergrid,Maithan | 18-07-2018 | 09:00 | 22-07-2018 | 18:00 | ОСВ | POWERGRID,ER-II | CB overhauling work, There will be no power interruption occurred. The said line will be in service | SIKKIIVI |
| 220KV MLD-DLK-I | 18-07-2018 | 08:00 | 18-07-2018 | 16:00 | ODB | POWERGRID,ER-II | Auto Reclose Relay scheme rewiring | |
| 220KV MLD-DLK-I | 18-07-2018 | 08:00 | 18-07-2018 | 16:00 | ODB | ER-II | Auto Reclose Relay scheme rewiring | |
| 3X80 MVAR, 765 KV B/R-II | 18-07-2018 | 08:00 | 18-07-2018 | 18:00 | ODB | POWERGRID ER-1 | Switching of R-phase reactor with spare after stability | NII DO |
| 400KV ROURKELA-SUNDARGARH#4 | 19-07-2018 | 08:00 | 19-07-2018 | 18:00 | ODB | ER-II/ODISHA/ROURKELA | RE-FIXING OF JUMPER BOLT, CC RING BOLT, VD, FIXING OF SPLIT PINS FOUND IN CROSS PATROLLING. | NLDC |
| 220 kV Bus -II at Jeypore | 19-07-2018 | 09:30 | 19-07-2018 | 13:30 | ODB | ER-II/Odisha /Jeypore | Isolator Retrofitting Works of Bus-II side Isolators of | GRIDCO |
| 400/220KV, 315MVA ICT-2 @ JAMSHEDPUR | | 09:30 | | 17:30 | ODB | POWERGRID ER-1 | Jeynagar I ISOLATOR MAINTT. WORK | |
| 400KV BIHARSHARIF-II L/R BAY @ PUSAULI | 19-07-2018 19-07-2018 | 09:00 | 19-07-2018 19-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | JUSNL |
| 400KV BSF-I_ICT-II TIE BAY @PUSAULI | 19-07-2018 | 09:00 | 21-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | FOR BREAKER DRIVE OVERHAULING AND BAY AMP | <mark>SWITCH.</mark> |
| 400KV ALLAHABAD MAIN BAY @ PUSAULI | 19-07-2018 | 09:00 | 21-07-2018 | 18:00 | ОСВ | POWERGRID ER-1 | WORK FOR BREAKER DRIVE OVERHAULING AND BAY AMP | |
| 400KV Kahalgaon-Banka Line-2 | 19-07-2018 | 09:30 | 19-07-2018 | 17:30 | ODB | KAHALGAON | WORK PM works & relay testing | |
| 220KV ICT#2 Bay (Bay No.210) at | 40.07.0040 | 00.00 | | 47.00 | o an | | | |
| Powergrid,Subhasgram | 19-07-2018 | 08:00 | 21-07-2018 | 17:30 | OCB | POWERGRID,ER-II | CGL make CB Overhauling BUS DIFFERENTIAL PROTECTION CIRCUIT TESTING & | WB |
| 400 KV MALDA BUS-II | 19-07-2018 | 09:00 | 19-07-2018 | 17:00 | ODB | FARAKKA | CHECKING | |
| 220 kV Bus -II at Jeypore | 20-07-2018 | 09:30 | 20-07-2018 | 13:30 | ODB | ER-II/Odisha / Jeypore | Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II | GRIDCO |
| 209BAY(220KV Pandiabili-Atri-1) | 20-07-2018 | 10:00 | 20-07-2018 | 16:00 | ODB | ER-II/Odisha/ Pandiabili GIS | Timing and CRM of Breaker | |
| 765 /400 KV ICT-II AT GAYA SS | 20-07-2018 | 09:00 | 20-07-2018 | 18:00 | ODB | POWERGRID ER-1 | | NLDC |
| 400KV PTN BARH -III & 400KV BARH MOTIHARI -I | 20-07-2018 | 08:00 | 20-07-2018 | 17:30 | ODB | POWERGRID ER-1 | FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER | |
| 220KV BUS-2 @ PATNA | 20-07-2018 | 09:30 | 21-07-2018 | 17:30 | ODB | POWERGRID ER-1 | ISOLATORS ALIGNMENTS WORK | BSEB |
| 400KV BIHARSHARIF-II MAIN BAY @ PUSAULI | 20-07-2018 | 09:00 | 20-07-2018 | 18:00 | ODB | POWERGRID ER-1 | FOR COMPRESSOR OVERHAULING WORK | |
| | 20-07-2018 | 09:00 | 20-07-2018 | 17:30 | ODB | POWERGRID,ER-II | Jumper rectication | |
| 400kv Maithon- Durgapur-2 | | | | | | | | |
| 400kv Maithon- Durgapur-2 400\220kV 315 MVAICT -1 at Powergrid,Rangpo | 20-07-2018 | 08:00 | 24-07-2018 | 17:00 | ОСВ | POWERGRID,ER-II | For rectification of SF6 gas leakage repair work | |
| | 20-07-2018 | 08:00 | 24-07-2018 23-07-2018 | 17:00 17:00 | OCB ODB | POWERGRID,ER-II POWERGRID,ER-II | Balance Porcelin Insulator repacement with CLR | SIKKIM |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo | | | | | | , | Balance Porcelin Insulator repacement with CLR | SIKKIM |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line | 20-07-2018 | 08:00 | 23-07-2018 | 17:00 | ODB | POWERGRID,ER-II | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works | |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II | 20-07-2018 | 08:00 | 23-07-2018 | 17:00 16:00 | ODB ODB | POWERGRID,ER-II ER-II ER-II/Odisha/BARIPADA | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works | GRIDCC |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada | 20-07-2018 20-07-2018 21-07-2018 | 08:00 08:00 09:30 | 23-07-2018 20-07-2018 21-07-2018 | 17:00 16:00 13:30 | ODB ODB | POWERGRID,ER-II ER-II ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works | GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 | 08:00 08:00 09:30 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 | 17:00 16:00 13:30 | ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH | GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 | 08:00 08:00 09:30 09:30 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 | 17:00 16:00 13:30 13:30 | ODB ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID ER-1 | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & | GRIDC |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 | 08:00 08:00 09:30 09:30 08:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 | 17:00 16:00 13:30 13:30 17:30 | ODB ODB ODB ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS | GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 KV Farakka- Kahalgaon-I line | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 | 08:00 08:00 09:30 09:30 08:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 | 17:00 16:00 13:30 13:30 17:30 18:00 | ODB ODB ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works (for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus | GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 KV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 | 08:00 08:00 09:30 09:30 08:00 09:00 10:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 | 17:00 16:00 13:30 13:30 17:30 18:00 17:30 | ODB ODB ODB ODB ODB ODB ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works (for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler | GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 KV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 08:00 09:00 10:00 08:30 09:30 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 | 17:00 16:00 13:30 13:30 17:30 18:00 17:30 13:30 | ODB ODB ODB ODB ODB ODB ODB ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works (for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP | GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400kV PTN BARH -IV & 400kV BARH MOTIHARI -II 400kV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 kV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220kV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 08:00 09:00 10:00 09:30 10:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 17:30 18:00 18:00 | ODB | POWERGRID,ER-II ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK | GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 KV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220KV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400KV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:30 10:00 09:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK | GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 KV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220KV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400KV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:30 10:00 09:00 09:00 09:00 08:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon- | GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 KV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220KV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400KV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 KV Farakka- Kahalgaon-III line | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:30 10:00 09:00 09:00 09:00 10:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. | GRIDCO GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400kV PTN BARH -IV & 400kV BARH MOTIHARI -II 400kV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 kV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220kV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400kV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 kV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works | GRIDCO GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 KV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220KV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400KV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 KV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works (for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works Jumpering work for new 125 MVAR Bus Reactor Bay extension work | GRIDCO GRIDCO GRIDCO WB |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400kV PTN BARH -IV & 400kV BARH MOTIHARI -II 400kV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 kV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220kV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400kV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 kV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works Jumpering work for new 125 MVAR Bus Reactor Bay extension work TO ARREST SF6 GAS LEAKAGE IN R-PHASE OF 42852 CB. | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220KV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400KV PTN BARH -IV & 400KV BARH MOTIHARI -II 400KV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 KV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220KV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400KV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 KV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka-Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works Jumpering work for new 125 MVAR Bus Reactor Bay extension work TO ARREST SF6 GAS LEAKAGE IN R-PHASE OF 42852 CB. Isolator Retrofitting Works of Bus-I side Isolators of Jeynagar I | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400kV PTN BARH -IV & 400KV BARH MOTIHARI -II 400kV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 kV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220kV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400kV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 kV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada 400KV, BUS-I 400KV ROURKELA-RANCHI#1 | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works (for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka-Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works Jumpering work for new 125 MVAR Bus Reactor Bay extension work TO ARREST SF6 GAS LEAKAGE IN R-PHASE OF 42852 CB. Isolator Retrofitting Works of Bus-I side Isolators of Jeynagar I ERECTION OF IPS TUBE &STRINGING OF JUMPER FOR FUTURE (BR-2) BAY CONSTRUCTION WORK OF 125 MVAR R/R - 2 | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400kV PTN BARH -IV & 400KV BARH MOTIHARI -II 400kV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220kV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400kV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 kV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada 400kV, BUS-I 400kV ROURKELA-RANCHI#1 | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 23-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:30 10:00 09:30 09:30 09:30 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 13:30 16:00 18:00 18:00 17:30 18:00 17:30 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works (for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works Jumpering work for new 125 MVAR Bus Reactor Bay extension work TO ARREST SF6 GAS LEAKAGE IN R-PHASE OF 42852 CB. Isolator Retrofitting Works of Bus-I side Isolators of Jeynagar I ERECTION OF IPS TUBE &STRINGING OF JUMPER FOR FUTURE (BR-2) BAY CONSTRUCTION WORK OF 125 | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400kV PTN BARH -IV & 400kV BARH MOTIHARI -II 400kV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 kV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220kV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400kV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 kV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada 400kV, BUS-I 400kV ROURKELA-RANCHI#1 220 kV Bus -I at Jeypore 400 kV BUS-II AT BANKA | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 23-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works Jumpering work for new 125 MVAR Bus Reactor Bay extension work TO ARREST SF6 GAS LEAKAGE IN R-PHASE OF 42852 CB. Isolator Retrofitting Works of Bus-I side Isolators of Jeynagar I ERECTION OF IPS TUBE &STRINGING OF JUMPER FOR FUTURE(BR-2) BAY CONSTRUCTION WORK OF 125 MVAR R/P. 2 CB OPERTAING MECHANISM MID LIFE OVERHAULLING | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400kV PTN BARH -IV & 400KV BARH MOTIHARI -II 400kV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 kV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220kV ICT-2 BAY) 63MVAR BIHARSHARIF-II _I/R BAY@PUSAULI 400kV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 kV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada 400kV, BUS-I 400kV ROURKELA-RANCHI#1 220 kV Bus -I at Jeypore 400 kV Bus-II AT BANKA TIE BAY OF MUZ-1 & KISHANGANJ-2(411) AT NEW PURNEA 220kV Bus Coupler Bay (Bay No.204) at | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:30 10:00 09:30 09:00 09:00 10:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Balangir ER-II/Odisha/Balangir POWERGRID ER-1 POWERGRID ER-1 | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works (for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works Jumpering work for new 125 MVAR Bus Reactor Bay extension work TO ARREST SF6 GAS LEAKAGE IN R-PHASE OF 42852 CB. Isolator Retrofitting Works of Bus-I side Isolators of Jeynagar I ERECTION OF IPS TUBE &STRINGING OF JUMPER FOR FUTURE (BR-2) BAY CONSTRUCTION WORK OF 125 MVAR R/R-2 CB OPERTAING MECHANISM MID LIFE OVERHAULLING WORK | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 400\220kV 315 MVAICT -1 at Powergrid,Rangpo 132KV Rangpo-Rangit line 220kV MLD-DLK-II 220 kV BUS-I at Baripada 220 kV Bus -II at Jeypore 400kV PTN BARH -IV & 400kV BARH MOTHARI -II 400kV BIHARSHARIF-II _BR-I TIE BAY @ PUSAULI 400 kV Farakka- Kahalgaon-I line 400 kV Bus-I at Baripada 220 kV Bus -II at Jeypore 202 BAY(220kV ICT-2 BAY) 63MVAR BIHARSHARIF-II L/R BAY@PUSAULI 400kV VARANASI MAIN BAY (EAST SIDE) AT PUSAULI 315 MVA ICT#1 at Powergrid,Subhasgram 400 kV Farakka- Kahalgaon-III line 220 kV BUS-II at Baripada 400kV, BUS-I 400kV ROURKELA-RANCHI#1 220 kV Bus -I at Jeypore 400 kV Bus-II at Jeypore 400 kV Bus-II at Jeypore 400 kV Bus-II AT BANKA TIE BAY OF MUZ-1 & KISHANGANJ-2(411) AT NEW PURNEA 220kV Bus Coupler Bay (Bay No.204) at Powergrid,Subhasgram | 20-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 | 08:00 08:00 09:30 09:30 09:00 10:00 09:00 09:00 09:00 09:00 09:30 09:00 09:00 09:00 09:00 09:00 09:00 | 23-07-2018 20-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 21-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 22-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 23-07-2018 | 17:00 16:00 13:30 17:30 18:00 17:30 18:00 18:00 18:00 18:00 18:00 18:00 17:30 18:00 18:00 17:30 | ODB | POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Pandiabili GIS POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S | Balance Porcelin Insulator repacement with CLR insulator Auto Reclose Relay scheme rewiring CVT JB replacement works Isolator Retrofitting Works of Bus-II side Isolators of ICT-I FOR REPLACEMENT OF PORCELAIN INSULATOR WITH POLYMER FOR COMPRESSOR OVERHAULING WORK For connecting bay-22 (Main Bay of 400 KV Farakka-Kahalgaon-I) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For GIS bay EXTN works (for recoonecting jumpers to GIS Bus-I) Isolator Retrofitting Works of Bus-II side Isolators of Bus Coupler Timing and CRM of Breaker FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK AMP WORK Y-Ph LA Rlacement For connecting bay-34 (Tie Bay of 400 KV Farakka-Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. CVT JB replacement works Jumpering work for new 125 MVAR Bus Reactor Bay extension work TO ARREST SF6 GAS LEAKAGE IN R-PHASE OF 42852 CB. Isolator Retrofitting Works of Bus-I side Isolators of Jeynagar I ERECTION OF IPS TUBE &STRINGING OF JUMPER FOR FUTURE (BR-2) BAY CONSTRUCTION WORK OF 125 MVAR R R - 2 CB OPERTAING MECHANISM MID LIFE OVERHAULLING WORK CGL make CB Overhauling | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |

| 4 | 00kV Baripada-Kharagpur line | 24-07-2018 | 09:30 | 24-07-2018 | 13:30 | ODB | ER-II/Odisha/BARIPADA S/S | Replacement of CVT JB | WB |
|--|--|--|--|--|--|---|---|--|--|
| 2 | 20 kV Bus -I at Jeypore | 24-07-2018 | 09:30 | 24-07-2018 | 13:30 | ODB | ER-II/Odisha /Jeypore | Isolator Retrofitting Works of Bus-I side Isolators of Jeynagar II | GRIDCO |
| N | Maintenance work for Barh Patna Line-1 | 24-07-2018 | 09:30 | 25-07-2018 | 18:00 | ОСВ | BARH | Attending defects of isolator & annual testing of Bay equipments | |
| 4(| 00 KV BUS-I of NTPC Farakka | 24-07-2018 | 10:00 | 24-07-2018 | 18:00 | ODB | POWERGRID,ER-II | For connecting BUS isolator of bay no-22 & 33 to BUS-I (After augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-XV projects). | |
| 40 | 00 kV Maithan-Kahalgaon line 2 | 24-07-2018 | 09:00 | 24-07-2018 | 17:00 | ODB | POWERGRID,ER-II | Retrofitting of Diff relay | |
| 40 | 00KV Maithon-Right Bank-1 | 24-07-2018 | 08:00 | 30-07-2018 | 18:00 | ОСВ | POWERGRID,ER-II | Re conductoring work | |
| 40 | 00KV MALDA-PURNEA-I | 24-07-2018 | 08:00 | 24-07-2018 | 17:00 | ODB | POWERGRID,ER-II | CT replacement of B-ph and For replacement of 2 nos. bend E/W peak. | |
| 40 | 00KV MALDA-PURNEA-I | 24-07-2018 | 08:00 | 24-07-2018 | 17:00 | ODB | ER-II | CT replacement of B-ph and For replacement of 2 nos. bend E/W peak. | |
| 13 | 32kV Baripada- Bangriposi line | 25-07-2018 | 09:30 | 25-07-2018 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CT JB replacemnet works | WB |
| 4 | 00KV, BUS-II | 25-07-2018 | 09:00 | 26-07-2018 | 18:00 | ODB | ER-II/Odisha/Balangir | Jumpering work for new 125 MVAR Bus Reactor Bay extension work | GRIDCO |
| 4 | 00KV CHAIBASA#1 MAIN BAY (BAY NO416) | 25-07-2018 | 09:00 | 25-07-2018 | 18:00 | ODB | ER-II/ODISHA/ROURKELA | REPLACEMENT OF DEFECTIVE AUXILIARY SWITCH ASSEMBLY OF 41652 CB. | |
| 1: | 25 MVAR Bus Reactor | 25-07-2018 | 09:00 | 25-07-2018 | 10:00 | ODB | ER-II/Odisha /Jeypore | For STATCOM Post commissioning Test of External Reactive device switching (For the above, Outage to be booked under | |
| 20 | 00MVA ICT-1 AT BANKA | 25-07-2018 | 10:00 | 25-07-2018 | 18:00 | ODB | POWERGRID ER-1 | PROVIDING INSULATION SLEEVES ON TERTIARY | BSEB |
| 40 | 00KV BIHARSHARIF-II_BR-I TIE BAY@PUSAULI | 25-07-2018 | 09:00 | 27-07-2018 | 18:00 | OCB | POWERGRID ER-1 | FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK | |
| 4 | 100\220kV 315 MVAICT -4 -at Powergrid,Rangpo | 25-07-2018 | 08:00 | 29-07-2018 | 17:00 | ОСВ | POWERGRID,ER-II | For rectification of SF6 gas leakage repair work | |
| 4 | 00KV Rangpo-Binaguri-I line | 25-07-2018 | 08:00 | 27-07-2018 | 17:00 | ODB | POWERGRID,ER-II | Balanced AMP works & Line maintenance | |
| 40 | 00KV Rangpo-Teesta-5 line II | 25-07-2018 | 08:00 | 27-07-2018 | 17:00 | ODB | POWERGRID,ER-II | Balanced AMP works & Line maintenance | |
| 40 | 00 KV MALDA-FARAKKA-I | 25-07-2018 | 08:00 | 25-07-2018 | 14:00 | ODB | ER-II | FOR A/R SCHEME IMPLEMENTATION. | |
| 3 | 15MVA ICT-I at Baripada | 26-07-2018 | 09:00 | 26-07-2018 | 13:30 | ODB | ER-II/Odisha/BARIPADA S/S | | GRIDCO |
| 3 | 15 MVA ICT-II | 26-07-2018 | 12:00 | 26-07-2018 | 13:00 | ODB | ER-II/Odisha /Jeypore | For STATCOM Post commissioning Test of External Transformer Switching | GRIDCO |
| 20 | 00MVA ICT-2 AT BANKA | 26-07-2018 | 10:00 | 26-07-2018 | 18:00 | ODB | POWERGRID ER-1 | PROVIDING INSULATION SLEEVES ON TERTIARY CONDUCTOR BY M/S SARTHAK COMPONENTS. | BSEB |
| 40 | 00KV 125MVAR BUS REACTOR-II @ PUSAULI | 26-07-2018 | 09:00 | 26-07-2018 | 18:00 | ODB | POWERGRID ER-1 | AMP WORK | BSEB |
| 4 | 00KV Kahalgaon-Maithon Line-2 | 26-07-2018 | 09:30 | 26-07-2018 | 17:30 | ODB | KAHALGAON | PM works & relay testing | |
| | | | | | | | | | |
| 50 | 0 MVAR Bus Reactor at WBSETCL Jeerat Substation | 26-07-2018 | 08:00 | 31-07-2018 | 17:30 | OCB | POWERGRID,ER-II | B-Ph Bushing Replacement | |
| | 0 MVAR Bus Reactor at WBSETCL Jeerat Substation 00KV D/C Berhampore Sagardighi CKT-II | 26-07-2018 26-07-2018 | 08:00 8:30 | 31-07-2018 | 17:30 16:00 | OCB ODB | POWERGRID,ER-II POWERGRID,ER-II | B-Ph Bushing Replacement Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware | WB |
| 4(| | | | | | | POWERGRID,ER-II ER-II | Jumper tightness fixing of arcing Horn Eirth wire VD | WB |
| 40 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II | 26-07-2018 | 8:30 | 26-07-2018 | 16:00 | ODB ODB | POWERGRID,ER-II ER-II | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings | WB |
| 40 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) | 26-07-2018 26-07-2018 | 8:30 | 26-07-2018 | 16:00 | ODB ODB | POWERGRID,ER-II ER-II | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. | |
| 40 40 22 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) | 26-07-2018 26-07-2018 27-07-2018 | 8:30 08:00 09:00 | 26-07-2018 26-07-2018 27-07-2018 | 16:00 14:00 18:00 | ODB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. | |
| 40 40 22 63 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 | 8:30 08:00 09:00 09:30 | 26-07-2018 26-07-2018 27-07-2018 | 16:00 14:00 18:00 13:30 | ODB ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I | |
| 40 40 40 40 40 40 40 40 40 40 40 40 40 4 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 | 8:30 08:00 09:00 09:30 09:00 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 | 16:00 14:00 18:00 13:30 | ODB ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT-I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus | GRIDCO |
| 40 41 41 22 63 27 40 P1 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 27-07-2018 | 8:30 08:00 09:00 09:30 09:30 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 27-07-2018 | 16:00 14:00 18:00 13:30 18:00 | ODB ODB ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP | GRIDCO |
| 40 40 40 22 40 P1 | 00 KV MALDA-FARAKKA-II 00 KV MALDA-FARAKKA-II 00 KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00 kV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ USAULI | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 27-07-2018 28-07-2018 | 8:30 08:00 09:00 09:30 09:00 09:00 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 | 16:00 14:00 18:00 13:30 18:00 18:00 | ODB ODB ODB ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore POWERGRID ER-1 | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT-I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK | GRIDCO GRIDCO |
| 40 41 41 22 63 23 40 P1 41 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00KV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ USAULI 00KV Rangpo-Binaguri-II line 00KV Rangpo-Teesta-5 line I | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 | 8:30 08:00 09:00 09:30 09:00 09:00 08:00 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 29-07-2018 | 16:00 14:00 18:00 13:30 18:00 18:00 17:00 | ODB ODB ODB ODB ODB ODB ODB OCB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance | GRIDCO |
| 40 40 22 40 P1 40 22 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00KV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ USAULI 00KV Rangpo-Binaguri-II line 00KV Rangpo-Teesta-5 line I | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 | 8:30 08:00 09:00 09:30 09:00 09:00 08:00 08:00 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 30-07-2018 | 16:00 14:00 18:00 13:30 18:00 13:30 17:00 17:00 | ODB ODB ODB ODB ODB ODB ODB OCB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV JeynagarI 89C) | GRIDCO GRIDCO NLDC |
| 40 40 40 40 40 40 40 40 40 50 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00KV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ USAULI 00KV Rangpo-Binaguri-II line 00KV Rangpo-Teesta-5 line I 20KV JEYNAGAR-I Line | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 28-07-2018 | 8:30 08:00 09:00 09:30 09:00 09:00 08:00 08:00 09:30 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 30-07-2018 29-07-2018 | 16:00 14:00 18:00 13:30 18:00 17:00 17:00 17:00 | ODB ODB ODB ODB ODB ODB ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV Jeynagar I 89C Isolator) & R-ph CVT replacement work | GRIDCO GRIDCO NLDC GRIDCO |
| 40 40 40 22 40 P0 40 22 50 22 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00KV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ USAULI 00KV Rangpo-Binaguri-II line 00KV Rangpo-Teesta-5 line I 20KV JEYNAGAR-I Line 00MVA ICT #3 at Baripada | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 29-07-2018 30-07-2018 | 8:30 08:00 09:00 09:30 09:00 09:00 08:00 08:00 09:30 09:30 09:30 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 30-07-2018 29-07-2018 30-07-2018 | 16:00 14:00 18:00 13:30 18:00 13:30 17:00 17:00 17:00 17:30 | ODB ODB ODB ODB ODB ODB ODB ODB ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware Stringe FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV JeynagarI 89C Isolator) & R-ph CVT replacement work PRD replacement works For Isolator Retrofitting works (220KV JeynagarII 89C Isolator) For Broken insultaor discs replacement, Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 40 40 40 40 40 40 40 40 40 40 40 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00KV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ USAULI 00KV Rangpo-Binaguri-II line 00KV Rangpo-Teesta-5 line I 20KV JEYNAGAR-I Line 00MVA ICT #3 at Baripada 20KV JEYNAGAR-II Line | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 29-07-2018 30-07-2018 30-07-2018 | 8:30 08:00 09:00 09:30 09:00 09:00 08:00 08:00 09:30 09:30 09:30 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 30-07-2018 29-07-2018 30-07-2018 30-07-2018 | 14:00 14:00 18:00 13:30 18:00 17:00 17:00 17:30 13:30 | ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha /Jeypore ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID,ER-II | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittinge FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV JeynagarI 89C Isolator) & R-ph CVT replacement work PRD replacement works For Isolator Retrofitting works (220KV JeynagarII 89C Isolator) For Broken insultaor discs replacement, Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittings | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 40 40 40 40 40 40 40 22 40 40 21 40 40 40 40 40 40 40 40 40 40 40 40 40 | 00 KV MALDA-FARAKKA-II 00 KV MALDA-FARAKKA-II 00 KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 20 kV Bus -I at Jeypore 20 kV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ USAULI 00 KV Rangpo-Binaguri-II line 00 KV Rangpo-Teesta-5 line I 20 kV JEYNAGAR-I Line 00 MVA ICT #3 at Baripada 20 kV JEYNAGAR-II Line 00 kV Subhasgram-Sagardighi Line | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 29-07-2018 30-07-2018 30-07-2018 | 8:30 08:00 09:00 09:30 09:00 09:00 08:00 08:00 09:30 09:30 09:30 09:30 09:30 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 29-07-2018 29-07-2018 30-07-2018 30-07-2018 31-07-2018 | 16:00 14:00 18:00 13:30 18:00 13:30 17:00 17:00 17:00 17:30 13:30 16:00 | ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha /Jeypore ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID,ER-II | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittinge FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV JeynagarI 89C Isolator) & R-ph CVT replacement work PRD replacement works For Isolator Retrofitting works (220KV JeynagarII 89C Isolator) For Broken insultaor discs replacement, Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD, Conductor Spacer and others hardware fittings For stringing work of under construction 765KV | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO WB |
| 40 40 40 40 40 40 40 22 40 40 21 40 40 40 40 40 40 40 40 40 40 40 40 40 | 00 KV MALDA-FARAKKA-II 00 KV MALDA-FARAKKA-II 00 KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00 kV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ 00 KV Rangpo-Binaguri-II line 00 KV Rangpo-Teesta-5 line I 20 kV JEYNAGAR-I Line 00 MVA ICT #3 at Baripada 20 kV JEYNAGAR-II Line 00 kV Subhasgram-Sagardighi Line 00 kV Subhasgram-Sagardighi Line | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 29-07-2018 30-07-2018 30-07-2018 6/18/2018 | 8:30 08:00 09:00 09:30 09:00 09:00 08:00 08:00 09:30 09:30 09:30 09:30 09:30 09:30 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 30-07-2018 30-07-2018 30-07-2018 30-07-2018 6/19/2018 | 16:00 14:00 18:00 13:30 18:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 | ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID,ER-II ER-II/Odisha /Jeypore | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware Butings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV Jeynagar I 89C Isolator) & R-ph CVT replacement work PRD replacement works For Isolator Retrofitting works (220KV Jeynagar II 89C Isolator) For Broken insultaor discs replacement, Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings For stringing work of under construction 765KV Angul-Sundargarh-3&4 at power line crossing | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO WB NLDC |
| 40 40 40 40 40 40 40 22 40 40 21 40 40 40 40 40 40 40 40 40 40 40 40 40 | 00 KV MALDA-FARAKKA-II 00 KV MALDA-FARAKKA-II 00 KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00 kV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ 00 KV Rangpo-Binaguri-II line 00 KV Rangpo-Teesta-5 line I 20 kV JEYNAGAR-I Line 00 MVA ICT #3 at Baripada 20 kV JEYNAGAR-II Line 00 kV Subhasgram-Sagardighi Line 00 kV Subhasgram-Sagardighi Line | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 29-07-2018 30-07-2018 30-07-2018 6/18/2018 | 8:30 08:00 09:00 09:30 09:00 08:00 08:00 09:30 09:30 09:30 09:30 08:00 08:00 O8:00 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 30-07-2018 30-07-2018 30-07-2018 30-07-2018 6/19/2018 6/22/2018 | 16:00 14:00 18:00 13:30 18:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 | ODB | POWERGRID,ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore POWERGRID,ER-II POWERGRID,ER-II ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore ER-II/Odisha/BARIPADA S/S ER-II/Odisha /Jeypore POWERGRID,ER-II ER-II/Odisha /Jeypore | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittinge FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV Jeynagar I 89C Isolator) & R-ph CVT replacement work PRD replacement works For Isolator Retrofitting works (220KV Jeynagar II 89C Isolator) For Broken insultaor discs replacement, Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings For stringing work of under construction 765KV Angul-Sundargarh-3&4 at power line crossing For stringing work of under construction 765KV Angul-Sundargarh-3&4 at power line crossing | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO WB NLDC |
| 40 40 40 40 40 40 40 40 40 40 40 40 40 4 | 00 KV MALDA-FARAKKA-II 00 KV MALDA-FARAKKA-II 00 KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00 kV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ 00 KV Rangpo-Binaguri-II line 00 KV Rangpo-Teesta-5 line I 20 kV JEYNAGAR-I Line 00 MVA ICT #3 at Baripada 20 kV JEYNAGAR-II Line 00 kV Subhasgram-Sagardighi Line 00 kV Subhasgram-Sagardighi Line | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 29-07-2018 30-07-2018 30-07-2018 6/18/2018 | 8:30 08:00 09:00 09:30 09:00 08:00 08:00 09:30 09:30 09:30 09:30 09:30 08:00 08:00 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 30-07-2018 30-07-2018 30-07-2018 30-07-2018 6/19/2018 | 16:00 14:00 18:00 13:30 18:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 | ODB | POWERGRID, ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 POWERGRID ER-1 POWERGRID, ER-II POWERGRID, ER-II ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore POWERGRID, ER-II ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore POWERGRID, ER-II ER-II/Odisha /Jeypore POWERGRID, ER-II ER-II/Odisha / Angul TLC ER-II/Odisha / Angul TLC | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT-I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV Jeynagarl 89C Isolator) & R-ph CVT replacement work PRD replacement works For Isolator Retrofitting works (220KV JeynagarlI 89C Isolator) For Broken insultaor discs replacement, Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings For stringing work of under construction 765KV Angul-Sundargarh-3&4 at power line crossing For stringing work of under construction 765KV Angul-Sundargarh-3&4 at power line crossing | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO WB NLDC |
| 40 40 40 40 40 40 40 40 40 40 40 40 40 4 | 00KV D/C Berhampore Sagardighi CKT-II 00 KV MALDA-FARAKKA-II 00KV CHAIBASA#1 TIE BAY (BAY NO417) 20 kV Bus -I at Jeypore 3MVAR BIHARSHARIF-II L/R AT PUSAULI 20 kV Bus -I at Jeypore 00KV HVDC NORTH SIDE CONVERTER TNX_FILTER TIE BAY @ USAULI 00KV Rangpo-Binaguri-II line 00KV Rangpo-Teesta-5 line I 20KV JEYNAGAR-I Line 00MVA ICT #3 at Baripada 20KV JEYNAGAR-II Line 00kV Subhasgram-Sagardighi Line 00KV HVDC Talcher-Kolar Pole-I&II | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 28-07-2018 28-07-2018 29-07-2018 30-07-2018 30-07-2018 6/18/2018 6/21/2018 | 8:30 08:00 09:00 09:30 09:00 08:00 08:00 09:30 09:30 09:30 09:30 08:00 08:00 O8:00 O8:00 | 26-07-2018 26-07-2018 27-07-2018 27-07-2018 28-07-2018 30-07-2018 30-07-2018 30-07-2018 30-07-2018 30-07-2018 6/19/2018 6/22/2018 | 14:00 14:00 18:00 13:30 18:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 | ODB | POWERGRID, ER-II ER-II ER-II/ODISHA/ROURKELA ER-II/Odisha /Jeypore POWERGRID ER-1 ER-II/Odisha /Jeypore POWERGRID, ER-II POWERGRID, ER-II ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore ER-II/Odisha /Jeypore POWERGRID, ER-II ER-II/Odisha /Jeypore POWERGRID, ER-II ER-II/Odisha /Jeypore POWERGRID, ER-II ER-II/Odisha / Angul TLC UIring ERPC appro | Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittinge FOR A/R SCHEME IMPLEMENTATION. MODIFICATION IN THE A/R CIRCUIT OF 41752 CB. Isolator Retrofitting Works of Bus-I side Isolators of ICT- I AMP WORK Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler FOR BREAKER DRIVE OVERHAULING AND BAY AMP WORK Balanced AMP works & Line maintenance Balanced AMP works & Line maintenance For Isolator Retrofitting works (220KV Jeynagarl 89C Isolator) & R-ph CVT replacement work PRD replacement works For Isolator Retrofitting works (220KV JeynagarlI 89C Isolator) For Broken insultaor discs replacement, Jumper tightness fixing of arcing Horn Eirth wire VD Conductor VD , Conductor Spacer and others hardware fittings For stringing work of under construction 765KV Angul-Sundargarh-3&4 at power line crossing PVAI | GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO WB NLDC |

| 220kV Korba-Budhipadar circuit 3 | 24-Jul-18 | 07:00 | 26-Jul-18 | 18:00 | continuous | WRPC | Overhead stringing works of U/C 765kV D/C Rapur- Sundergarh Line | |
|---|-----------|-------|-----------|-------|------------|------|---|--|
| 765kV D/C Jharsuguda-Dharamjaygarh ckt 3& 4 | 02-Jul-18 | 08:00 | 04-Jun-18 | 18:00 | continuous | WRPC | Overhead stringing works of U/C 765kV D/C Rapur- Sundergarh Line | |
| 765kV D'JAIGARH- JHARSUGUDA I | 10-Jul-18 | 09:00 | 15-Jul-18 | 18:00 | CONTI | WRPC | Swapping of Ckt # 1 and 2 with under construction D'garh-Jharsuguda Ckt # 3 and 4 | |
| 765kV D'JAIGARH- JHARSUGUDA II | 10-Jul-18 | 09:00 | 15-Jul-18 | 18:00 | CONTI | WRPC | Swapping of Ckt # 1 and 2 with under construction D'garh-Jharsuguda Ckt # 3 and 4 | |
| 400kV_Jeypore_Gazuwaka-1 | 29-Jun-18 | 07:00 | 29-Jun-18 | 18:00 | Daily | SRPC | AMP & Insulator Replacement works/RTV Coating works/DTPC Commmissioning as per PCSC recommendations | 300MW curtailmnet in ER-SR corridor |
| 400kV Jeypore_Gazuwaka-2 | 30-Jun-18 | 07:00 | 30-Jun-18 | 18:00 | Daily | SRPC | AMP & Insulator Replacement works/RTV Coating works/DTPC Commmissioning as per PCSC recommendations | 300MW curtailmnet in ER-SR corridor |
| HVDC Pole-1 at Gazuwaka SS | 07-Jul-18 | 09:00 | 07-Jul-18 | 18:00 | Daily | SRPC | RC Divider Installation & RTV Coating Works | Clubbed with Jaypore - Gajuwaka Line Outage proposed by ER. 300MW curtailmnet in ER-SR corridor |
| HVDC Pole-2 at Gazuwaka SS | 08-Jul-18 | 09:00 | 08-Jul-18 | 18:00 | Daily | SRPC | RTV Coating Works | |
| HVDC Talcher- Kolar Bi pole A/R | 15-Jun-18 | 09:00 | 30-Jun-18 | 18:00 | Daily | SRPC | For Hot line washing | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Summary of Unit-4 (500 MW), NTPC, Farakka

Overhauling Duration

| Date | Description | Extra duration (days) |
|------------|---|-----------------------|
| 11.03.2018 | Unit-4 taken out for overhauling (35days) | |
| 18.03.2018 | Observed that 2R blades of LP rotor heavily eroded alongwith locking plate. | |
| 19.03.2018 | Planned for replacement with spare rotor from NTPC,Ramagundam | |
| 23.03.2018 | Transportation contract awarding | 04 |
| 26.03.2018 | Vehicle reached NTPC,Ramadundam | |
| 28.03.2018 | Exit from NTPC,Ramagundam | |
| 21.04.2018 | LP rotor reached NTPC,Farakka | 24 |
| 24.04,2018 | 4 nos. loose LP blades rectified | 02 |
| 27,04.2018 | Flow path correction of new rotor | 02 |
| 17.05.2018 | Unit Synchronized | |

Summary: - Unit-4 schedule of overhauling duration: 35 days

-- Extra work duration : 32 days -- Total work completed : 67 days

auss.

| Dei | tails of stations/U | Jnits required to | operate und | der RGMO/FGMO a | s per IEGC | | Whether operating under RGMO | indicate in case of status is not available |
|---------------|---------------------|--------------------|-------------------------------|-----------------|------------------------|-------------------------|---------------------------------------|---|
| Name of State | Туре | Name of Uitlity | Sector (CS/SS/P rivate) | Name of Station | Name of Stage/ Unit | Installed capacity (MW) | | |
| | Thermal | TVNL | SS | Tenughat | 1 | 210 | No | Difficulties in implementing |
| JHARKHAND | | 1055 | SS SS | | 1 | 210 65 | No Yes | RGMO & exemption not |
| | Hydro | JSEB | SS | Subarnrekha | 2 | 65 | Yes | |
| | | | SS SS | | 2 | 82.5 82.5 | No No | |
| | | | SS | Bandel TPS | 3 | 82.5 | No | |
| | | | SS |] | 4 | 82.5 | No | |
| | | | SS | | 5 | 210 | No | |
| | | | SS | Santaldih | 5 | 250 | No | Unit#6 could not be implemented because of |
| | | | SS | Santaluin | 6 | 250 | No | some technical problem |
| | | | SS | | 1 | 210 | No | Nil |
| | | | SS | | 2 | 210 | No | Nil |
| | Te1 | WBPDCL | SS | Kolaghat | 3 | 210 | No | Nil |
| | Termal | WRADCE | SS SS | 1 | <u>4</u> 5 | 210 210 | No No | Nil Nil |
| | | | SS | 1 | 6 | 210 | No | Nil |
| | | | SS | | 1 | 210 | Yes | |
| | | | SS |] | 2 | 210 | Yes | |
| WEST BENGAL | | | SS | Bakreshwar | 3 | 210 | Yes | |
| | | | SS SS | ł | <u>4</u> 5 | 210 210 | Yes Yes | |
| | | | SS | | 1 | 300 | No | Without OEM support it is |
| | | | | Sagardighi | 2 | 300 | No | not possible to put in FGMO/RGMO. At present OEM support is not |
| | | | SS | | 1 | 225 | Yes | |
| | Hydro | | SS | PPSP | 2 | 225 | Yes | In 134th OCC WBPDCL |
| | | | SS SS | • | 3 4 | 225 225 | Yes Yes | informed that the units ar in RGMO/FGMO mode |
| | | | SS | | 1 | 250 | Yes | III KOMO/I OMO IIIode |
| | | | SS | Budge-Budge | 2 | 250 | Yes | |
| | Thermal | CESC | SS | | 3 | 250 | Yes | |
| | | | SS SS | Haldia | 1 2 | 300 300 | Yes Yes | |
| | Thermal | DPL | SS | DPL | 7 | 300 | Yes | |
| | | | SS | | 1 | 210 | No | Not adequate response in |
| | | OPGC | SS | IB TPS | 2 | 210 | No | RGMO |
| | | | SS | | 1 | 49.5 | No | |
| | | | SS SS | | 3 | 49.5 32 | No No | |
| | | | SS | Burla | 4 | 32 | No | |
| | | | SS |] | 5 | 37.5 | No | |
| | | | SS | | 6 | 37.5 | No | |
| | | | SS | | 7 | 37.5 | No No | |
| | | | SS SS | 1 | 2 | 60 60 | No No | |
| | | | SS | 1 | 3 | 60 | No | |
| | | | SS | Balimela | 4 | 60 | No | |
| | | | SS | Dailliola | 5 | 60 | No | |
| Orissa | | | SS SS | 1 | 6 7 | 60 75 | No No | |
| | Hydro | OHPC | SS | 1 | 8 | 75 75 | No | |
| | | | SS | | 1 | 50 | No | |
| | | | SS |] | 2 | 50 | No | |
| | | 1 | SS | Rengali | 3 | 50 | No | |
| | | | SS SS | ł | 4 | 50 | No No | |
| | | | SS | | 5 1 | 50 80 | No No | |
| | | | SS | 116 12.11 | 2 | 80 | No | |
| | | 1 | SS | Upper Kolab | 3 | 80 | No | |
| | | | | 1 | 4 | 80 | No | 1 |
| | | | SS SS | | 4 1 | 150 | No | |

| İ | Ì | Ì | 00 | ıııuıavaıı | 2 | l 150 l | No | T | | | |
|----------------|---------|--------|---|--|---|--|---|---|--|--|--|
| | | | SS SS | - | 3 4 | 150 150 | No | | | | |
| <u> </u> | | | 64 | <u>.</u> | | 100 | 110 | | | | |
| | | 1 | | D 1 A | | 500 | | | | | |
| | | | CS | Bokaro-A | 1 | 500 | Yes | Not possible due to pop | | | |
| | | | | | | | | | | | |
| | | | 00 | D 1 D | | 040 | | | | | |
| | | | CS | Bokaro-B | 3 | 210 | No | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | Not possible due to non availability of Electro hydraulic governing. The units will be decommissioned shortly. Not possible due to non availability of Electro hydraulic governing. The units will be decommissioned shortly. Not possible due to non availability of Electro hydraulic governing. The units will be decommissioned shortly. Not possible due to non availability of Electro hydraulic governing. The units will be decommissioned shortly. Not possible due to non availability of Electro Action has been initiated to put in RGMO, but testing is not yet completed. RGMO mode of operation would not be possible for | | | |
| | | | | | | | | | | | |
| | | | CS | | 3 | 130 | No | | | | |
| | | | | CTPS | | | | | | | |
| | | | | | | | | decommissioned shortly. | | | |
| | | | CS | 1 | 7 | 250 | Yes | | | | |
| | | | CS | | 8 | 250 | Yes | | | | |
| | | | | | | | | Not possible due to non | | | |
| | | | | | | | | availability of Electro | | | |
| | | | CS | DTPS | 4 | 210 | No | hydraulic governing. The | | | |
| | Th | | | | | | | | | | |
| | Thermal | DVC | | | | | | decommissioned shortly. | | | |
| | | DVC | CS | | 1 | 210 | No | Not possible due to non | | | |
| | | | CS | | 2 | 210 | No | availability of Electro | | | |
| | | | | | | | | Action has been initiated to | | | |
| | | | CS | | 3 | 210 | No | put in RGMO, but testing is | | | |
| | | | | Mejia | | | | not yet completed. | | | |
| | | | CS | | 4 | 210 | Yes | | | | |
| | | | CS | | 5 | 250 | Yes | | | | |
| | | | cs | | 6 | 250 | | | | | |
| | | | | | | | Yes | | | | |
| | | | CS | Mejia - B | 7 | 500 | Yes | <u> </u> | | | |
| Central Sector | | | CS | -, | 8 | 500 | Yes | | | | |
| | | | CS | DSTPS | 1 | 500 | Yes | <u> </u> | | | |
| | | | CS | | 2 | 500 | Yes | | | | |
| | | | CS | | 1 | 500 | Yes | <u> </u> | | | |
| | | | CS | KODERMA | 2 | 500 | Yes | | | | |
| | | | CS | RTPS | 1 | 600 | Yes | _ | | | |
| | | 1 | CS | | 2 | 600 | Yes | | | | |
| | Hydro | | CS | Panchet | 1 | 40 | No | | | | |
| | , | | CS | | 2 | 40 | No | would not be possible for | | | |
| | | | CS | | 1 | 200 | Yes | | | | |
| | | | CS | Farakka STPP-I | 2 | 200 | Yes | | | | |
| | | | CS | | 3 | 200 | Yes | | | | |
| | | | CS | Farakka STPP-II | 1 | 500 | Yes | | | | |
| | | | CS | | 2 | 500 | Yes | Kentin DOMO meda from | | | |
| | | | CS | Farakka-U#6 | | 500 | Yes | | | | |
| | | | | | | | | April, 2014 | | | |
| | | | CS | | 1 | 210 | Yes | | | | |
| | Thermal | NTPC | CS | | 2 | 210 | Yes | | | | |
| | | | CS | I/ I OTED | 3 | 210 | Yes | | | | |
| | | | CS | Kahalgoan STPP | 4 | 210 | Yes | | | | |
| | | | CS | 4 | 5 | 500 | Yes | | | | |
| | | | CS | <u> </u> | 6 | 500 | Yes | | | | |
| | | | CS | | 7 | 500 | Yes | | | | |
| | | | CS CS | Talcher STPP Stg-I | 1 | 500 | Yes | | | | |
| | | | CS | Barh | <u>2</u> 5 | 500 660 | Yes Yes | + | | | |
| | | | CS | Barh | 6 | 660 | Yes | | | | |
| | | | | Dam | | 170 | | | | | |
| | | | CS | Teesta HEP | 2 | | Yes Yes | + | | | |
| | Hydro | NILIDO | 00 | | | | 1 - 5 | i | | | |
| | Hydro | NHPC | CS CS | Teesia HEF | | 170 170 | | 1 | | | |
| | Hydro | NHPC | CS | Teesia HEP | 3 | 170 | Yes | | | | |
| | Hydro | NHPC | cs 42 | Teesia HEF | | | | | | | |
| | Hydro | NHPC | CS 42 PS | | | | | | | | |
| | Hydro | NHPC | cs 42 | - Maithon RB TPP | 3 | 170 | Yes | | | | |
| | Hydro | NHPC | CS 42 PS PS | | 3 | 170 525 | Yes | | | | |
| | | | CS 42 PS | Maithon RB TPP | 1 2 | 170 525 525 | Yes Yes Yes | | | | |
| | Hydro | NHPC | PS PS PS PS | | 1 2 1 | 525 525 600 | Yes Yes Yes Yes | | | | |
| | | | CS 42 PS PS PS PS | Maithon RB TPP | 1 2 1 2 | 525 525 600 600 | Yes Yes Yes Yes Yes Yes | | | | |
| | | | CS 42 PS PS PS PS PS PS PS | Maithon RB TPP Sterlite | 1 2 1 2 3 4 | 525 525 600 600 600 600 | Yes Yes Yes Yes Yes Yes Yes | | | | |
| | | | CS 42 PS | Maithon RB TPP | 1 2 1 2 3 | 525 525 600 600 600 | Yes Yes Yes Yes Yes Yes Yes Yes Yes | | | | |
| | | | CS 42 PS PS PS PS PS PS PS PS PS P | Maithon RB TPP Sterlite Adhunik Power | 3 1 2 1 2 3 4 1 2 | 525 525 600 600 600 600 270 270 | Yes | (RoR project with 3 hours | | | |
| IDD | | | CS 42 PS | Maithon RB TPP Sterlite | 1 2 1 2 3 4 | 170 525 525 600 600 600 600 270 | Yes | (RoR project with 3 hours pondage) | | | |
| IPP | | | CS 42 PS PS PS PS PS PS PS PS PS P | Maithon RB TPP Sterlite Adhunik Power JLHEP | 3 1 2 1 2 3 4 1 2 1 2 | 525 525 600 600 600 600 270 270 48 48 | Yes Yes Yes Yes Yes Yes Yes Yes Yes No No | pondage) | | | |
| IPP | | | CS 42 PS PS PS PS PS PS PS PS PS P | Maithon RB TPP Sterlite Adhunik Power | 3 1 2 1 2 3 4 1 2 1 2 | 525 525 600 600 600 600 270 270 48 48 49.5 | Yes Yes Yes Yes Yes Yes Yes Yes Yos No No | pondage) (RoR project with 3 hours | | | |
| IPP | | | CS 42 PS PS PS PS PS PS PS PS PS P | Maithon RB TPP Sterlite Adhunik Power JLHEP | 3 1 2 1 2 3 4 1 2 1 2 | 525 525 600 600 600 600 270 270 48 48 | Yes Yes Yes Yes Yes Yes Yes Yes Yes No No | pondage) | | | |

Annexure-B35

| Hydro | IPP | PS PS PS PS | Teesta Urja | 2 3 4 5 6 | 200 200 200 200 200 200 | No No No No | mode but because of transmission evacuation constraint RGMO/FGMO is disabled |
|-------|-----|----------------------|-------------|-----------------------|--|----------------------|--|
| | | PS | Dikchu | 1 | 48 | No | (RoR project with 3 hours |
| | | PS | DIKCHU | 2 | 48 | No | pondage) |

Quarterly Preparedness Monitoring -AGENDA

(Status as on:

| S.No. | State | Sector (G/T/D) | Utilities | Status of CISO Nomination | Critical Infra Identified | Crisis managem ent Plan Prepared | Status of CS mock drill | Status of Training/ Workshops organized/ participated by utility | Action taken on CERT- In/NCIIPC Advisories |
|-------|-----------|-------------------|-----------|------------------------------|---------------------------------|---|----------------------------------|---|--|
| 1 | Tamilnadu | T | TANGEDCO | Yes/No | Yes/No | Yes/No | Done on | | |

Annexure – E.4

AVAILABILITY STATUS OF EVENT LOGGER, DISTURBANCE RECORDER & GPS

| | | | Protect | ion & Co | ntrol Sys | tem | | |
|-----|-------------------|---------|------------|----------|-----------|---------|----------|---|
| SI. | Substation | Av | ailability | 1 | Time Sy | ynchror | nization | Remarks |
| NO | | EL | DR | GPS | Relay | DR | EL | |
| 1 | Subhasgram | Yes | Yes | Yes | Yes | Yes | Yes | |
| 2 | Maithon | Yes | Yes | Yes | Yes | Yes | Yes | |
| 3 | Durgapur | Yes | Yes | Yes | Yes | Yes | Yes | |
| 4 | Malda | Yes | Yes | Yes | Yes | Yes | Yes | |
| 5 | Dalkhola | Yes | Yes | Yes | Yes | Yes | Yes | |
| 6 | Siliguri | Yes | Yes | Yes | Yes | Yes | Yes | |
| 7 | Binaguri | Yes | Yes | Yes | Yes | Yes | Yes | |
| 8 | Birpara | Yes | Yes | Yes | Yes | Yes | Yes | |
| 9 | Gangtok | Yes | Yes | Yes | Yes | Yes | Yes | |
| 10 | Baripada | Yes | Yes | Yes | Yes | Yes | Yes | |
| 11 | Rengali | Yes | Yes | Yes | Yes | Yes | No | New EL would be implemented in BCU under NTAMC project by March'2015 |
| 12 | Indravati (PGCIL) | Yes | Yes | Yes | Yes | Yes | No | EL is old one(model-PERM 200), provision for time synchronisation is not available. New EL would be implemented in BCU under NTAMC project by March'2015 |
| 13 | Jeypore | Yes | Yes | Yes | Yes | Yes | Yes | EL is old and not working satisfactorily. New EL would be implemented in BCU under NTAMC project by March, 2015 |
| 14 | Talcher | Yes | Yes | Yes | Yes | Yes | Yes | |
| 15 | Rourkela | Yes | Yes | Yes | Yes | Yes | Yes | |
| 16 | Bolangir | Yes | Yes | Yes | Yes | Yes | Yes | |
| 17 | Patna | Yes | Yes | Yes | Yes | Yes | Yes | |
| 18 | Ranchi | Yes | Yes | Yes | Yes | Yes | Yes | |
| 19 | Muzaffarpur | Yes | Yes | Yes | Yes | Yes | Yes | |
| 20 | Jamshedpur | Yes | Yes | Yes | Yes | Yes | Yes | |
| 21 | New Purnea | Yes | Yes | Yes | Yes | Yes | Yes | |
| 22 | Gaya | Yes | Yes | Yes | Yes | Yes | Yes | |
| 23 | Banka | Yes | Yes | Yes | Yes | Yes | Yes | |
| 24 | Biharsariif | Yes | Yes | Yes | Yes | Yes | Yes | |
| 25 | Barh | Yes | Yes | Yes | Yes | Yes | Yes | |
| 26 | Sagardighi | No | Yes | Yes | Yes | Yes | No | EL is under process of restoration with help from OEM, China |
| 27 | Kahalgaon | Yes | Yes | Yes | Yes | Yes | Yes | |
| 28 | Farakka | Yes | Yes | No | No | No | No | Time synchronization available for Farakka-Kahalgaon line-III & IV. The same will be implemented in rest of the lines by December, 2014. |
| 29 | Meramundali | Defunct | Yes | Yes | Yes | Yes | Yes | |
| 30 | Tisco | Yes | Yes | Yes | Yes | Yes | Yes | |
| 31 | Bidhannagar | No | Yes | Yes | No | No | No | Using DR & EL available in Numerical |

| | | | | | | | | relays. GPS will be put in service by |
|-----|---------------------|---------|--------|-----|-----|-----|-----|---|
| | | | | | | | | January, 2015. |
| 32 | Indravati (OHPC) | Yes | Faulty | No | No | No | No | Time synchronization will be done by Feb, 2015. ICT-I feeders using DR & EL available in Numerical relays. 400 kV |
| | | | | | | | | ICT-II feeder is being maintained by PGCIL, Mukhiguda.Status may confirm |
| 0.0 | 171 | | | | | | | from PGCIL |
| 33 | Kharagpur | No | Yes | Yes | No | No | No | Using DR & EL available in Numerical relays. |
| 34 | DSTPS | Yes | Yes | Yes | Yes | Yes | Yes | |
| 35 | Sterlite | Yes | Yes | Yes | Yes | Yes | Yes | |
| 36 | Mejia 'B' | Yes | Yes | Yes | Yes | Yes | Yes | |
| 37 | Mendhasal | Defunct | Yes | Yes | Yes | Yes | No | EL will be restored by March, 2015. |
| 38 | Arambagh | No | Yes | Yes | No | No | No | Using DR & EL available in Numerical relays |
| 39 | Jeerat | No | Yes | No | No | No | No | Using DR & EL available in Numerical relays. Procurement of new GPS is in progress. |
| 40 | Bakreswar | Yes | Yes | Yes | Yes | Yes | Yes | progress. |
| 41 | GMR | Yes | Yes | Yes | Yes | Yes | Yes | |
| 42 | Maithon RB | Yes | Yes | Yes | Yes | Yes | Yes | |
| 43 | Raghunathpur | Yes | Yes | Yes | Yes | Yes | Yes | |
| 44 | Kolaghat | Yes | Yes | Yes | Yes | Yes | Yes | |
| 45 | Teesta V | Yes | Yes | Yes | Yes | Yes | Yes | |
| 46 | Koderma | Yes | Yes | Yes | Yes | Yes | Yes | |
| 47 | Sasaram | Yes | Yes | Yes | Yes | Yes | Yes | |
| 48 | Rangpo | Yes | Yes | Yes | Yes | Yes | Yes | |
| 49 | Adhunik | Yes | Yes | Yes | Yes | Yes | Yes | |
| 50 | JITPL | Yes | Yes | Yes | Yes | Yes | Yes | |
| 51 | 765kV Angul | Yes | Yes | Yes | Yes | Yes | Yes | |
| 52 | Chuzachen | Yes | Yes | Yes | No | Yes | Yes | |
| 53 | New Ranchi 765kV | Yes | Yes | Yes | Yes | Yes | Yes | |
| 54 | Lakhisarai | Yes | Yes | Yes | Yes | Yes | Yes | |
| 55 | Chaibasa | | | | | | | |
| 56 | 765kV Jharsuguda | Yes | Yes | Yes | Yes | Yes | Yes | All are in working condition. However a dedicated DR for 765KV Lines; make TESLA is not working. M/s Siemens has assured to commission the same by 31.01.15 |
| 57 | Beharampur | Yes | Yes | Yes | Yes | Yes | Yes | |
| 58 | Keonjhar | Yes | Yes | Yes | Yes | Yes | Yes | |

Eastern Regional Power Committee

The status of ERS towers in Eastern Region as updated in OCC meetings is given below:

1) ERS towers available in Powergrid S/s is as given below:

| SI. No. | Name of S/S | No. of ERS towers available |
|------------|------------------|---|
| 1 | Durgapur, ER-II | 1 Set (8 towers) |
| 2 | Rourkela, ER-II | 3 towers incomplete shape |
| 3 | Jamshedpur, ER-I | 15 towers (10 nos Tension tower and 5 nos suspension tower) |

2) The present status of ERS towers in OPTCL system is as follows:

| SI. No. | Name of S/S | No. of ERS towers available |
|------------|---------------------------------------|-----------------------------|
| 1 | Mancheswar | 2 nos, 400 kV ERS towers |
| 2 | Mancheswar, Chatrapur & Budhipadar | 42 nos, 220 kV ERS towers |

- 12 nos. of new 400 kV ERS towers have been recieved.
- Another, 16 nos of 400 kV towers accompanied with 6 sets of T&P are required which is under process
- 3) The present status of ERS towers in WBSETCL system is as follows:

| SI. No. | Name of S/S | No. of ERS towers available |
|------------|-------------|-----------------------------|
| 1 | Gokarna | 2 sets |
| 2 | Arambag | 2 sets |

4) The present status of ERS towers in BSPTCL system is as follows:

| SI. No. | Type | Quantity | Remarks |
|---------|----------------------|----------|--------------------|
| 1 | Tension ERS Tower | 12 | New |
| 2 | Suspension ERS Tower | 20 | New |
| 3 | Old ERS Tower | 10 | 1 no. is defective |
| | Total | 42 | |

- As informed in ERS meeting held on 10-11-2014 taken by Member (Power System), CEA; 2 sets (12 tension & 20 suspension) of ERS towers had been procured and currently available in BSPTCL system (as mentioned in above table with remarks "New").
- Same ERS tower is used in both 220 kV and 132 kV circuits.

5) In 25th ERPC meeting held on 21.09.2014, ERPC concurred to the proposal of procurement of four sets of ERS and it was also informed that, the proposed four sets of ERS will be kept at Sikkim, Siliguri, Ranchi and Gaya and will be used by all constituents of ER during emergencies.

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

5) DVC informed that they are in process of procuring two (2) sets of 400 kV ERS towers.

Checklist for Submission of new transmission elements for updation in Protection Database

NAME OF ORGANISATION: FOR THE MONTH OF:

SUBSTATION DETAIL:

| SI No | DETAILS OF ELEMENTS | DATA TYPE | Status of Submission (Y/N) | Remarks |
|-------|---------------------|--|----------------------------------|---------|
| 1 | TRANSMISSION LINE | LINE LENGTH, CONDUCTOR TYPE, VOLTAGE GRADE | | |
| 2 | POWER TRANSFORMER | NAMEPLATE DETAILS | | |
| 3 | GENERATOR | TECHNICAL PARAMETERS | | |
| 4 | CURRENT TRANSFORMER | NAMEPLATE DETAILS | | |
| 5 | VOLTAGE TRANSFORMER | NAMEPLATE DETAILS | | |
| 6 | RELAY DATA | MAKE, MODEL and FEEDER NAME | | |
| 7 | RELAY SETTINGS | NUMERICAL RELAYS: CSV or XML file extracted from Relay ELECTROMECHANICAL RELAYS: SNAPSHOT of RELAY | | |
| 8 | REACTOR | NAMEPLATE DETAILS | | |
| 9 | CAPACITOR | NAMEPLATE DETAILS | | |
| 9 | UPDATED SLD | | | |

SIGNATURE:

NAME OF REPRESENTATIVE:

DESIGNATION:

CONTACT:

E-MAIL ID:

VDI of Selected 765 kV & 400 kV in Eastern Region in the month of May - 2018

| नई र | ोंची / Ranchi | New | जमशेदपुर / Jamshedpur | | | मुजफ्फरपुर / Muzaffarpur | | |
|------|---------------|--------------------|-----------------------|-----|--------------------|--------------------------|-----|--------------------|
| MAX | MIN | VDI (% of Time) | MAX | MIN | VDI (% of Time) | MAX | MIN | VDI (% of Time) |
| | | | | | | 422 | 387 | |
| 805 | 756 | 0.76 | 426 | 407 | 10,68 | 422 | | U.41 |

| बिहार | शरीफ / Bihar | Sariff | विनागुरी / Binaguri | | | जीरत / Jeerat | | |
|-------|--------------|-----------|---------------------|-----|-----------|---------------|-----|-----------|
| | , | VOI (% of | | | VDI (% of | | | VDI (% of |
| MAX | MIN | Time) | MAX | MIN | Time) | MAX | MIN | |
| 427 | 398 | 1.63 | 425 | 394 | 2.51 | 427 | 379 | 6.60 |

| राउरकेला / Rourkela | | | जयपोर / Jeypore | | | कोडरमा / Koderma | | |
|---------------------|-----|-----------|-----------------|-----|-----------|------------------|-------|-----------|
| | | VDI (% at | | | VDI (% of | | 40111 | VDI (% of |
| MAX | MIN | Time) | MAX | MtN | Time) | MAX | MIN | Time) |
| 413 | 402 | 00,0 | 427 | 396 | 0.58 | 425 | 403 | 1.95 |

| मैथन / Maithon | | | तीस्ता / Teesta | | | रांगपो / Rangpo | | |
|----------------|-----|--------------------|-----------------|-----|--------------------|-----------------|-----|--------------------|
| MAX | MIN | VDI (% of Time) | MAX | MIN | VOI (% of Time) | MAX | MIN | VDI (% of Time) |
| 426 | 405 | 8.74 | 424 | 395 | 0.42 | 421 | 390 | 0.14 |