

Minutes of 139th OCC Meeting

Date: 12.12.2017 Eastern Regional Power Committee 14, Golf Club Road, Tollygunge Kolkata: 700 033

Minutes of 139th OCC Meeting held on 27th November, 2017 at ERPC, Kolkata

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

Member Secretary, EPRC chaired the meeting. He welcomed ED, ERLDC and all the other participants in the meeting.

Thereafter, he requested EE (PS), ERPC to take up the agenda points in seriatim.

Item no. 1: Confirmation of minutes of 138th OCC meeting of ERPC held on 30.10.2017

The minutes of 138th OCC meeting were uploaded in ERPC website and circulated vide letter dated 08.11.2017 to all the constituents.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 138th OCC meeting.

PART A : ER GRID PERFORMANCE

Item no. A1: ER Grid performance during October, 2017

The average consumption of Eastern Region for October - 2017 was 401 Mu. Eastern Region has achieved record maximum energy consumption of 440 Mu on 18th October-17. Total Export schedule of Eastern region for October - 2017 was 1425 Mu, whereas actual export was 1064 Mu.

ERLDC may present.

Deliberation in the meeting

ERLDC presented the performance of the Eastern Region grid during October 2017 and up to 20th November 2017. Presentation is enclosed at **Annexure- A1**.

ERLDC informed that Bangladesh is importing less power during off peak hours (200 MW approx) because of less demand.

ERLDC informed that three days was required in restoration of the direct circuit of 400kV Rourkela-Raigarh line due to involvement and mis-co-ordination within multiple agencies (Powergrid, Vedanta Ltd of Odisha). ERLDC placed the details as follows:

- 400kv Jhasuguda_Sterlite-I & II charged for the first time at 18:27hrs and 18:53 hrs of 6/11/17respectively.
- Interim LILO connection of 400 kV Rourkela Raigarh IV at Vedanta removed at 00:01 hrs on 07/11/17.
- 400 kV Rourkela Raigarh # IV (Direct Ckt) charged and synchronised at 19:01 hrs of 10/11/17.

OCC advised ERLDC to include the frequency duration curve in the presentation from next month onwards for better understanding of the frequency profile.

ERLDC agreed.

Item no. A2: Persistent over drawl by West Bengal and Odisha

It has been observed since few days, West Bengal is over drawing continuously to the tune of 4 to 5 mu per day with maximum deviation respect to schedule was in tune of 500 to 600 MW and Odisha is over drawing continuously to the tune of 3 to 4 mu per day with maximum deviation respect to schedule was in tune of 400 to 500 MW. Numbers of instructions/ violation messages/ Feeder opening intimations and warning messages for controlling over drawl were also issued to SLDC control room during real time operation to maintain their drawl within schedule. However, the response of West Bengal and Odisha were not commensurate with criticality of the situation. Further some instances have also been observed, where WBSEDCL operated PPSP under PUMP mode during overdrawl situation.

In 138th OCC, West Bengal overdrawl pattern for the October month was deliberated and opening of second level feeder for demand disconnection in case of continuous overdrawl was also discussed. West Bengal also informed that corrective measures and also arrangement of extra power will be done to mitigate such overdrawl. However, there was no substantial improvement noticed in real time operation.

ERLDC may present. WBSETCL and Odisha may explain.

Deliberation in the meeting

ERLDC presented the overdrawl pattern of Odisha and West Bengal during October, 2017 and up to 20th November 2017. ERLDC informed that WBSEDCL operated PPSP under pump mode even during overdrawl situation.

WBSEDCL representative was not available for discussion.

Odisha informed that one unit of Vedanta, OPGC and TTPS were under maintenance during October 2017. Some of the hydro generating units of Burla HEP and Balimela were also not available for service. In view of above, they were compelled to overdraw from Grid.

OCC advised Odisha and West Bengal to plan the availability and demand properly and maintain the drawl within the schedule. OCC suggested to purchase power through exchange if required.

OCC advised SLDC, West Bengal to avoid Pump mode operation of PPSP during overdrawl situation.

Item no. A3: OPERATION OF HYDRO POWER PROJECTS IN PEAKING MODE

CEA vide letter dated 18.07.17 informed that POSOCO has carried out operational analysis of various hydro stations in the country and observed that despite 40.6 GW of peaking hydro capacity only about 33 GW peak generation is carried out on all India basis. According to POSOCO, this is on account of a number of hydro stations, particularly in state sector, which are not being operated in peaking mode. In order to examine the above observation, a Sub-committee has been constituted by the MoP under Chiarperson, CEA with heads of POSOCO, NHPC, SJVN & THDC as members and Director (H), MoP as the Member Convenor. The Sub-Committee has held three meetings with the concerned hydro generating stations and concluded that there is scope for about 2000 MW additional power generation from hydro stations during peak hours.

It has been desired by the Chairperson that the matter of utilization of hydro stations in peaking mode be made a regular agenda item for discussion at the monthly OCC meetings while

discussing operational planning for the month ahead and analyzing the operation in the previous month.

In 135th OCC, ERLDC presented the performance in peaking mode for hydro generations in Eastern Region.

OCC decided to review the performance of hydro generators in peaking mode in monthly OCC meetings

ERLDC received daily hydro outage status report from SLDC, Odisha regularly. Daily outage reports from SLDC, WBSETCL & SLDC, JUSNL on daily basis to ERLDC is still pending. IPPs are also advised to send daily outage status report (Forced Outages) to ERLDC in case of outage of units at their respective stations.

ERLDC may present. SLDC, WBSETCL & JUSNL and IPPs may comply.

Deliberation in the meeting

ERLDC has presented the performance of the hydro generators. Presentation is enclosed at **Annexure-A3.1**.

ERLDC informed that Tasheding HEP was not able to maintain the generation as per the schedule during evening peak hours.

OCC advised Tasheding to plan the generation schedule properly to avoid deviation.

OCC advised ERLDC to segregate the performance of hydro generators during peak (16:00 hrs to 22:00 hrs) and off peak hours to identify how much peak support is obtained from the Hydro generators.

ERLDC agreed.

ERLDC presented the generation schedule and dispatch of water of Teesta-III and Teesta V generators. Presentation is enclosed at **Annexure-A3.2**.

ERLDC informed that there is a need for coordination between the Teesta III and Teesta V generators for optimum utilization of water during Peak Hours without effecting the long term beneficiaries of Teesta-V.

OCC felt that Teesta III generation schedule should be adjusted as per the generation schedule of Teesta V.

It was informed that one of their units are going for maintenance during December 2017 as given below:

- Teesta V Unit #1 shutdown from 1st December 2017 to 21st December 2017 for Annual Maint.
- Teesta V Unit #2 shutdown from 23rd December 2017 to 12th January 2018 for Annual Maint.

ED, ERLDC requested to differ the shutdown for 2 days to check feasibility of the proposal given in **Annexure-A3.2**.

NHPC agreed to differ the shutdown for one day.

Further, on request of Teesta III, ERLDC informed that the enhancement of NOC from 782 MW to 1050 MW will be considered keeping in view the shutdown schedule of Teesta-V.

PART B: ITEMS FOR DISCUSSION

Item No. B.1: Commissioning of new transmission elements in Eastern Region

In 118th OCC, it was informed that the network diagram of eastern region needs to be updated on regular basis on account of commissioning of new elements in the CTU as well as STU networks.

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

New Generators/Transmission Elements commissioned/charged during October, 2017 as follows:

- 1) 220 KV New Melli-Tashiding ckt charged for the first time at 17:34 hrs of 12.10.17.
- 2) 500MVA ICT-II at Maithon (old 315MVA Replacement) charged for the first time at 18:42 hrs. of 13.10.17.
- 3) 132kV Motihari-Raxual-DC Charged for first time as follows:
 - a. Ckt-2 at 12:44 hrs. of 18.10.17
 - b. Ckt-1 at 12:31 hrs. of 20.10.17
- 4) 132kV GIS elements charged at Birpara (PG) SS as follows:
 - a. 160MVA ICT-I 132kV side Bay: 11:17 hrs. of 28.10.17
 - b. 160MVA ICT-II 132kV side Bay: 17:38 hrs. of 28.10.17
 - c. 132kV Birpara(PG)-Birpara(WB)-1 bay at Birpara(PG): 17:47 hrs. of 28.10.17
 - d. 132kV Birpara(PG)-Birpara(WB)-2 bay at Birpara(PG): 11:28 hrs. of 28.10.17
 - e. 132kV Bus coupler Bay: 15:09 hrs. of 29.10.17.
- 5) 220kV Tashiding-Rangpo charged for first time at 18:22 Hrs. of 30.10.17.

Constituents may update.

Deliberation in the meeting

Odisha submitted the list of elements commissioned during October 2017 as follows:

- 220/132kV, 160 MVA Auto transformer at Balasore charged for the first time on 03.10.17
- 220/33kV, 20 MVA 2nd Transformer at Bonei charged for the first time on 16.10.17
- 132kV Rairakhol Traction feeder charged on 26.10.17.

New generating units synchronized during October 2017 as follows:

1) Tashiding Unit I & II (2 X 48.5 MW) (Shiga Energy, Sikkim IPP) has been declared under COD at 0:00 hrs of 18/10/17.

Item No. B.2: 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-B2**.

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

Deliberation in the meeting

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.

Item No. B.3: 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.

SN	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completi on	PSDF grant approved (in Rs.)	Amount drawn till date (in Rs.)	Status as updated in 135 th OCC
1	WBSETCL	Renovation & up-gradation of protection system of 220 kV & 400 kV Substations in W. Bengal	31-12-14		120.67 Cr	11.04 Cr.	95 % Supply Completed
2		Transmission System improvement of WBSETCL	22-05-17				
3		Renovation & modernisation of transmission system for relieving congestion in Intra-State Transmission System.	22-05-17				
4		Installation of switchable reactor & shunt capacitors					
5	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	10.05.17	162.5 Cr.	16.25 Cr + 8.91 Cr	Total contract awarded for Rs. 51.35 Cr
6	ERPC	Creation & Maintenance of web based protection database and desktop based protection calculation tool for Eastern Regional Grid	17.03.16		20 Cr.	4.94 Cr. + 9.88 Cr.	 Hardware supplied and installed. SAT completed for pilot state Protection database management software (PDMS) put in live w.e.f. 30.03.17. Training on PDMS organised at ERPC, Odisha, Bihar, WBSETCL, Jharkhand and DVC.
7		Renovation and up-gradation of 220/132/33 KV GSS Biharsharif, Bodhgaya, Fatuha, Khagaul, Dehri -on-sone & 132/33 kV GSS Kataiya	11/5/2015	Feb'2017	64.22 crore	23.68 crore	Project is on going. Contract awarded for Rs.71.37 Cr till date.
8	BSPTCL	Installation of capacitor bank at different 35 nos. of GSS under BSPTCL	5/9/2016		18.88 crore		Approved (triparty agreement among NLDC, Govt. of Bihar & BSPTCL is in under process)
9		Renovation & up-gradation of protection and control system of 12 nos. 132/33 KV GSS under BSPTCL.					Recommendation of appraisal committee is awaited. Estimated cost 54.69 crore.
10	DVC	Renovation and upgradation of control & protection system and replacement of Substation Equipment of 220/132/33 kV Ramgarh Substation			25.96		Tendering in process.

11		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	140		Appraisal committee has recommended. It will be placed in next monitoring Committee meeting.
12	WBPDCL	Implementation of Islanding scheme at Bandel Thermal Power Station	1.39 Cr		Award placed to ABB. Material delivery by Dec, 17.
13		Upgradation of Protection and SAS	26.09		Approved by Ministry of Power
14	OHPC	Renovation and up-gradation of protection and control system of 4 nos OHPC substations.	22.35 Cr		Tendering unde progress.
15	Powergrid	Installation of STATCOM in ER	160.28 Cr	63.028 Cr	work is in progress, eexpected to complete by June 2018
16a	ERPC	Training for Power System Engineers			The proposal was approved by Appraisal Committee. The
16b		Training on Power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents			approval from MoP, GOI is awaited.

Respective constituents may update.

Deliberation in the meeting

OCC advised all the constituents to send the update on work progress and completion target dates to ERPC within 3 days.

Item No. B.4: Status of UFRs healthiness installed in Eastern Region

UFR Healthiness Certification for the month of October, 2017 has been received from CESC, JUSNL, WBSETCL, DVC, and BSPTCL.

OPTCL may submit.

Deliberation in the meeting

OPTCL submitted the healthiness certificate.

Item No. B.5: Healthiness of SPS existing in Eastern Region

GMR, JITPL, CESC, & NTPC (TSTPS) have submitted the healthiness certificate for the month of September, 2017.

In 136th OCC, members felt that healthiness certificate for SPS of 132 kV Muzaffarpur-Dhalkebar D/C line may also be submitted on monthly basis and advised Powergrid to submit the healthiness certificate in every OCC meeting.

In 138th OCC, ERLDC informed that Tashiding HEP is also included under Rangpo SPS, two units of Tashiding HEP will trip on actuation of SPS. However, it will be reviewed in coordination with other generators covered in the SPS.

Vedanta, Chuzachen and Powergrid may submit the healthiness certificate for October 2017.

Teesta-III, Jorethang & Dikchu may submit the healthiness certificate for Rangpo SPS as decided in special meeting of 21.06.2017.

Deliberation in the meeting

Powergrid informed that Rangpo SPS will be tested on 2nd December 2017.

Teesta requested that one date may be fixed for Rangpo SPS testing on monthly basis.

OCC decided that testing of Rangpo SPS will be done on 15th day of every month.

Powergrid-Odisha has submitted the healthiness certificate.

OCC advised Vedanta and Chuzachen to submit the healthiness certificate.

Item No. B.6: Electricity Generation Targets for the year 2018-19 – CEA

The annual exercise of assessment and finalization of the generation targets and the planned maintenance schedules of the generating units for the year 2018-19 is being initiated by CEA. Although the generation performance of the various stations and their planned & unscheduled outages are regularly monitored in CEA but it is felt that a more realistic projection of month-wise generation in the coming year could be made by the respective Station Authorities.

While monitoring the generation performance during the current financial year, it has been observed that power utilities are facing the problem of loss of generation due to no / low schedules, high fuel costs and other technical and commercial and transmission etc. issues. Accordingly, it is requested that the following inputs may kindly be submitted to this office as per the enclosed **formats (given at Annexure-B.6)**:

- The unit wise yearly generation (with unit -wise monthly breakup) proposed during 2018-19 as per the format given along with the fuel availability, the anticipated loss of generation on account of various reasons such as grid constraint, low schedule/ reserve shut down due to high cost, poor quality coal/lignite etc, if any, may also be furnished (Annex-I (1 to 5))
- ii) Utilities who have their Power Purchase Agreement (PPA) with various Discoms, Trader, States etc, details may be furnished in MW for Long, Medium and Short term to enable us to assess the expected generation for next year (**Annex –I (point no 6)**).
- iii) The details of coal linkage from coal agencies and availability of secondary fuel oil/gas/ liq fuel may also please be furnished (**Annex- I (point no 7 (a) and (b)**).
- iv) Production cost, Unit wise cost of generation and rate of sale of power may also be furnished. (Annex I (point 8))
- v) Details of unit-wise schedule of Planned Maintenance as approved by the respective RPCs (Regional Power Committees), unit-wise R&M planned to be carried out during 2018-19, may also be considered for deciding the generation targets (**Annex-II**).

The information may please be furnished electronically at the email address targetopmcea@gmail.com, prathamkumar@gmail.com with a copy to ERPC (e-mail: mserpc-power@nic.in).

For the convenience of the generating utilities, the input formats are also being made available at CEA website **http://www.cea.nic.in**. For any other query/ clarification any of the following officer may be approached.

1. Mr Pratham Kumar, Assistant Director, 011-26732666, Mob- 08252697842

CEA vide letter dated 25th October 2017 informed that desired information from many generating stations have not been received till now. The list of such stations is enclosed at **Annexure-B6A**.

MoP vide letter no. 5/1/2017-OM informed that Annual generation targets for 2018-19 is to be finalized by 15th December, 2017 and to avert any coal supply crisis during 2018-19, plant wise detailed plan needs to be prepared.

In view of this, it is requested to furnish unit wise outage schedule of generating stations of your region for 2018-19 and month wise, state wise energy requirement for 2018-19 to this division by 15th November, 2017.

Members may furnish the above data at the earliest.

Deliberation in the meeting

OCC advised all the constituents to refer the annexure and send the relevant information at the earliest to CEA electronically at the email address targetopmcea@gmail.com, prathamkumar@gmail.com with a copy to ERPC (e-mail: mserpc-power@nic.in).

Item No. B.7: Data for preparation Load Generation Balance Report (LGBR) of ER for the year 2018-19

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

To facilitate the preparation of LGBR of Eastern Region by ERPC Secretariat within the schedule period, the following data/information for the year **2018-19** in respect of the constituents/utilities of Eastern Region is urgently required:

- i) The unit wise and station wise monthly energy generation proposed from existing units during 2018-19 (thermal/hydro/RES).
- ii) Annual maintenance programme for each of the generating units (thermal and hydro both).
- iii) Generating units under R&M / long outage indicating date of outage and reasons of outage and expected date of return (thermal and hydro both).
- iv) Partial and forced outage figures (in %) of generating units for the last 3 years.
- v) Month wise peak demand (MW) restricted and unrestricted peak demand.
- vi) Month wise off-peak demand (MW).
- vii) Month wise energy requirement (in MU).
- viii) Month wise & source wise power (both MU & MW) purchase and/or sale plan.
- ix) Schedule of commissioning of new generating units during 2018-19 and unit-wise monthly generation programme (in MU).
- x) Allocation of power from new generating units.
- xi) Month wise and annual planned outage of transmission system (Transmission lines 220kV and above / ICTs / Reactors/ other elements.

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

Members may furnish the above data at the earliest.

Deliberation in the meeting

OCC advised all the constituents to submit the relevant data through email (mail ID: mserpc-power@nic.in / pkderpc@gmail.com) by first week of December 2017.

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

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

At present, the following islanding schemes are in service:

- 1. CESC as a whole Islanding Scheme, CESC
- 2. BkTPS Islanding Scheme, 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 134th OCC, 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 September, 2017 has been received from CTPS, DVC, NTPC, JUSNL, BkTPS, Tata Power and CESC.

In 60th PCC NTPC was informed that protection equipment and CBs are very old at Lalmatia S/s which are the property of ECL. NTPC added that they are facing difficulty to maintain the Lalmatia S/s and 220kV Farakka-Lalmatia line with such old equipment.

OCC felt that Lalmatia S/s is covered under Farakka islanding scheme and ineffective protection/communication system at Lalmatia will be a concern for successful operation of Farakka islanding scheme.

OCC advised NTPC to submit the healthiness status of protection/communication equipment to ERPC and ERLDC. OCC also advised NTPC to pursue with ECL for further necessary action.

NTPC may place the details.

Deliberation in the meeting

NTPC vide letter dated 24.11.2017 informed the following

- Bay equipment, Auto transformers and protection system at both FSTPS and Lalmatia are healthy. However, bay equipment (CT, CVT, CB, isolators), Auto transformer and protection system are very old. Spares and service support from the OEM are not available due to obsolescence. In case of any equipment failure, defect and relay malfunction, the situation will be difficult to manage.
- NTPC, Farakka has already communicated the issue to ECL for urgent hand over of O&M of Farakka-Lalmatia transmission system.

WBPDCL informed that they need two days shutdown of islanding scheme at Bakreswar for up gradation work.

OCC approved.

OCC advised JUSNL to submit the healthiness certificate for UFR and PLCC system at Dumka & Pakur on monthly basis.

B.8.2. Bandel Islanding Scheme, WBPDCL

As per the latest status available in PSDF web site the scheme was approved for an amount of Rs.1.39 crore by the Monitoring Committee on 10.04.2017.

In 134th OCC, WBPDCL informed that MoP has issued the sanction letter for grant of PSDF.

In 135th OCC, WBPDCL informed that order has been placed to ABB for implementation of Bandel islanding scheme.

In 137th OCC, WBPDCL informed that the order has to be revised as per new GST guidelines.

WBPDCL may update the latest status.

Deliberation in the meeting

WBPDCL informed that the material would reach by December 2017.

Item No. B.9: Controlling overdrawal of states by disconnection of radial feeders - ERLDC

In accordance with IEGC sections 5.4.2 (c) and 5.4.2 (f), feeders for disconnecting demand of every state in the order of their priority for switching off, were identified in the past. List of these feeders is given in **Annexure-B9**. However, with growth of network interconnection and load as well as change of load distribution (if any) during the intervening period, it is felt that the list needs reviewing.

All constituents are requested to furnish views regarding their respective identified feeders and indicate the expected load (average and peak) that would be disconnected by switching off the feeders, so that the list can be finalized at the earliest.

In 138th OCC, ERLDC informed that the feeders list needs to be reviewed in view of growth of network interconnection and change of load distribution.

SLDC, Bihar updated the feeders list as follows:

- 132kV Banka(PG)-Banka D/C line (60 MW)
- 132kV Banka(PG)-Sultanganj D/C line (80 MW)
- 132kV Ara(PG)-Jagdishpur S/C line (45 MW)

OCC advised all the other SLDCs to identify the suitable feeders to be disconnected during overdrawal of states and submit the details to ERLDC and ERPC.

Members may update.

Deliberation in the meeting

Jharkhand updated the feeders list as follows:

- 132kV Manique-Chandil line (35 MW)
- 132kV Patratu-Basal (32MW)

West Bengal updated the feeders list as follows:

- 220kV Dalkhola(PG)-Dalkhola(WB)
- 220kV Birpara(PG)-Birpara(WB)
- 132kV Malda(PG)-Malda(WB)

OCC advised OPTCL to update the list of feeders at the earliest.

Item No. B.10: Implementation of Automatic Demand Management Scheme (ADMS)-ERLDC

West Bengal SLDC vide letter dated 13-10-17 has informed that the scheme of automatic demand management within the control area, has been completed.

In 138th OCC, Jharkhand informed that they are interacting with M/s Chemtrol for implementation of the scheme.

Odisha informed that that they are at tendering stage.

Bihar informed that they have identified the feeders and they will submit the list by next OCC.

Members may update.

Deliberation in the meeting

Bihar informed that the identified feeders have been approved by their highest authority and they will submit the scheme in next OCC.

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

B.11.1. Commissioning of 220 kV Patna-Sipara third ckt.

Major load of Capital city Patna is fed from 220 kV Sipara Substation, Further Sipara is conneted with Khagaul as well as Well as Fatuah at 220 kV level. These are also major load centers normally fed in radial mode from Patna (except Fatuah, which is usually supplied radially from Biharshariff). This causes very high loading of 220 kV Patna-Sipara D/C and it did not satisfy N-1 Contingeny criteria for most of the time in last quarter.

The third circuit of 220kV Patna-Sipara line is expected to be commissioned soon, which will help in relieving the loading on other two lines. Further with commissioning of 220 kV Patna-Sipara T/C 220 kV Khagul-Arrah-Pusauli loop may be kept close, which will help in improving system reliability and maintaining better voltage regulation in and around that area.

In view of above BSPTCL may expedite commissioning of 220 kV Patna-Sipara third ckt.

In 138th OCC, BSPTCL informed that the line will be commissioned within 15 days.

BSPTCL may update the latest status.

Deliberation in the meeting

BSPTCL informed that the line will be commissioned by 30th November 2017.

B.11.2. Repeated tripping of 220kV Chuka-Birpara D/c line

In 60th PCC, meeting Powergrid explained 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.

In 138th OCC, DGPC informed that BPC is the owner of part of the line which is belongs to Bhutan. They have already replaced porcelain insulators of 7 to 8 towers with polymer insulators.

DGPC added that they will discuss the issue with BPC in their coordination meeting scheduled to be held in November 2017 and update the action plan in next OCC meeting.

DGPC may place their action plan.

Deliberation in the meeting

DGPC informed that the insulator replacement work is in progress.

OCC advised DGPC to place the completion schedule in next OCC meeting.

B.11.3. 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.

SI No	Location /Sub- Station			y Switched ation SI. Ar)	Latest status
NO	in ER	(MVAr)	Reactor (MSR)	Capacito r (MSC)	
1	Rourkela	±300	2x125		Expected to complete by Mar 2018
2	Kishanganj	±200	2x125		Expected to complete by June 2018
3	Ranchi(New)	±300	2x125		Expected to complete by April 2018
4	Jeypore	±200	2x125	2x125	Expected to complete by June 2018

In 137th OCC, Powergrid updated the status as follows:

Powergrid may update.

Deliberation in the meeting

Powergrid informed that the work would be completed as per the given schedule.

B.11.4. Bus Splitting of Powergrid Sub-stations

As per decision of Standing Committee of ER CTU was entrusted to do Bus splitting at Maithon, Durgapur & Biharsariff S/Ss or ER. The latest status on the same are:

- 400 kV Maithon ---Completed
- 400 kV Durgapur--Completed
- 400 kV Biharshariff— Completed

OCC advised ERLDC to operationalize the bus splitting scheme at Maithon in coordination with NLDC and Powergrid.

ERLDC may update.

Deliberation in the meeting

ERLDC informed that NLDC has given the concurrence to operationalize the bus splitting scheme at Maithon. Now 400kV Maithon-Raghunathpur line is under shutdown. The bus splitting scheme at Maithon will be put in service once all the lines available at Maithon by December 2017.

B.11.5. 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 138th OCC, NTPC informed that the bus splitting will be implemented by December, 2018.

NTPC may update.

Deliberation in the meeting

NTPC informed that the work will be completed as per the schedule given earlier.

B.11.6. 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.

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	Only 7 towers left (Severe ROW
	line at Bolangir S/S	problem). By June, 2018.
2.	400/220 kV Keonjhar S/S	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	By Mar, 2018.
b.	Keonjhar (PG)-Turumunga(OPTCL) 220kV D/C line	By 2019.
3.	400/220kV Pandiabil Grid S/s:	
a.	Pratapsasan(OPTCL)-Pandiabil(PG) 220 kV D/C line	By Mar, 2018.

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

OPTCL may update.

Deliberation in the meeting

OPTCL updated the status as mentioned in above table.

B.11.7. 220 kV inter-connecting lines of JUSNL with 2x315 MVA, 400/220 kV substations at Chaibasa, Daltonganj & Dhanbad

SI. No.	Name of the transmission line	Completion schedule
1.	Chaibasa 400/220kV S/s	
a.	Chaibasa (JUSNL) – Ramchandrapur (JUSNL) 220kV D/c	By Dec, 2017 Bays at Ramchandrapur switchyard are not yet ready and the line is idle- charged from Chaibasa(JUSNL).
2.	Daltonganj 400/220/132kV S/s:	
a.	Daltonganj (POWERGRID) – Latehar 220kV D/c	By Dec, 2017.
b.	Daltonganj (POWERGRID) – Garhwa 220kV D/c	May, 2018
С	Daltonganj (POWERGRID) – Daltonganj (JUSNL) 132kV D/c	Dec, 2018
d	Daltonganj (POWERGRID) – Chatarpur/Lesliganj 132kV D/c	Matching with S/s
3.	Dhanbad 400/220 kV S/s: Awarded under TBCB	
a.	Dhanbad – Dhanbad (Govindpur) (JUSNL) 220kV D/c	Matching with S/s

In last OCC, JUSNL updated the latest status as follows:

JUSNL may update.

Deliberation in the meeting

JUSNL updated the status as mentioned in above table.

B.11.8. 220 kV inter-connecting lines of WBSETCL with 400/220 kV, 2x315 MVA Alipurduar & 2x500 MVA Rajarhat sub-stations

SI. No.	Name of the transmission line	Completion schedule	
1.	2x315MVA, 400/220kV Alipurduar sub-station		
а.	Alipurduar (POWERGRID) – Alipurduar (WBSETCL) 220kV D/c (<i>Twin moose</i>)	Dec, 2017	
2.	2x500MVA, 400/220kV Rajarhat		
a.	Rajarhat-N. Town-3 (WBSETCL) 220 kV D/C line	Matching	
b.	Rajarhat-N. Town-2 (WBSETCL) 220 kV D/C line	June, 2018	
С.	Rajarhat- Barasat (WBSETCL) 220 kV D/C line	June, 2018	

WBSETCL may update.

Deliberation in the meeting

WBSETCL updated the status as mentioned in above table.

Item No. B.12: BSPTCL Agenda

1. Erection and commissioning of 02 nos. of 220 kV line bays at KBUNL

Despite of several requests and reminders, KBUNL is not taking up this work seriously and it appears that the initiatives of KBUNL for construction of bay, which is essential for making available second circuit with Samastipur(New) and Motipur are far from satisfactory and the work is yet to start. Presently 220 KV KBUNL- Samastipur (new) (D/C) & 220 KV KBUNL - Motipur (D/C) tr. lines have only one 220 KV bays each at KBUNL end since long & due to this one circuit each from KBUNL to Samastipur (new) & KBUNL to Motipur remain unutilised. Due to unavailability of these bays at KBUNL end, BSPTCL is facing difficulties for synchronising 220 KV line at KBUNL and also unable to shift loading of Biharsharif(PG)-Begusarai D/C T/L on MTPS for off loading of Biharsharif(PG) ICTs and in case of any contingency occurs at DMTCL(D)-Motipur D/C T/L, MTPS-Motipur S/C T/L also tripped at overloading. It is evident that

the transmission infrastructure developed by BSPTCL in North Bihar could not be fully utilized causing limitations in power flow as well as power interruption.

The unavailability of bays at KBUNL is affecting the evacuation of power from KBUNL (Generating Station 2*110 MW+2*195MW). So, keeping these lines in loop at KBUNL will enhance the quality, reliability and stability of system.

KBUNL may begin the construction and complete commissioning of 2nd bay in minimum possible time in order to avoid crisis arisen due to unforeseen outage of Biharsharif(PG) and DMTCL(Darbhanga).

As such target dates for the start and completion of the above works may kindly be got ensured from KBUNL.

In 138th OCC, KBUNL informed that tender has been floated and the work will be awarded in November 2017. The work will be completed by March 2018.

KBUNL may update.

Deliberation in the meeting

KBUNL informed that the work is not yet awarded.

2. Loading of 220 kV Sasaram (PG)-Sahupuri (UP,NR) line

220 kV Sasaram (PG)-Sahupuri (NR,UP) line (completely owned by BSPTCL) is about 40 years old and its loading remains continuously more than 240 MW during peak hours and about 200 MW during off peak hours. Such loading may damage the line and also it causes low voltage problem in GSS connected to Sasaram (PG), hence causing load restriction in BSPTCL system.

SLDC, Patna daily requests RLDC to restrict the drawl maximum upto 180 MW only through the said transmission line. Also this agenda item was discussed In 133rd OCC meeting, OCC is hereby again requested to restrict the drawal upto 180 MW only in order to avoid overloading of ICTs at Gaya (PG) end by improving the sharing of 220 KV power to Dehri from Sasaram(PG) (especially during peak hours).

The issue has been communicated to NRPC vide letter dated 7th November 2017.

BSPTCL may update.

Deliberation in the meeting

BSPTCL informed that power flow through the line is within 180 MW.

Item No. B.13: Third Party Protection Audit & Inspection of Under Frequency Relays (UFR)

1. Status of 1st Third Party Protection Audit:

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

Name of Constituents	Total Observations	Complied	% of Compliance
Powergrid	54	37	68.52
NTPC	16	14	87.50
NHPC	1	1	100.00

DVC	40	26	65.00
WB	68	27	39.71
Odisha	59	38	64.41
JUSNL	34	21	61.76
BSPTCL	16	5	31.25
IPP (GMR, Sterlite and MPL)	5	5	100.00

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

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

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

Members may comply.

Deliberation in the meeting

BSPTCL has submitted the updated status.

OCC advised all the constituents to comply the observations at the earliest.

SI No	Proposed Date	Substation
1		400kV Baripada (PG)
2		400kV Jaypore(PG)
3	Dec, 2017	220kV Jeynagar (OPTCL)
4		400kV Indravati (PG)
5		400kV Indravati (OHPC)
6		400kV Bolangir (PG)
7	Jan, 2018	400kV Rengali (PG)
8		220kV Theruvali (OPTCL)

2. Schedule for 2nd Third Party Protection Audit:

The 2nd third party protection audit observations of competed substations are available in the ERPC website in important documents.

PCC advised all the constituents to comply the observations at the earliest.

Members may decide the dates.

Deliberation in the meeting

OCC referred the issue to PCC meeting scheduled to be held on 28th November 2017.

Item No. B.14: Furnishing of data for Merit Order Web Portal – CEA

During the Power Minister's Conference held on 3rd and 4th May 2017, at New Delhi, it was decided to develop a web portal/mobile app in about a month's time with a view to having transparency in Merit order scheduling & dispatch and ensuring most economic system operation.

In the conference Hon'ble Union Minister for Power requested all the States/UTs to submit the requisite data to CEA immediately.

On this regard, it is to inform that POSOCO has developed the facility for online uploading of monthly & daily data related to Merit Order Dispatch Portal, by the SLDCs. NLDC (POSOCO) has already communicated via email to all the SLDCs, their respective User IDs & Passwords and the procedure for online filling & uploading of data. All the SLDCs to start submitting the above data to NLDC online immediately.

In case of any doubt / clarification, Shri Harish Kr Rathour (NLDC) may be contacted at his Mobile No.9873918443. The procedure for online uploading of data for the portal is available in ERPC website.

Subsequently, CEA vide mail dated 4th July 2017 informed that for the ease of user, import from excel (in a predefined format) facility have also been implemented. Users are requested to follow following steps to upload data through excel:

- 1) Login to MERIT web portal (<u>www.meritindia.in/login</u>).
- 2) Select any date and click on "GO" button. After this, list of all station will be visible for that date with other information's, if already filled.
- 3) Click on "Export Data in Excel" to export the file in excel. *This would be a template file which is to be used for uploading the data*.
 - a. Once you do not have any changes in the list of plants, this file can be used for data uploading and on daily basis user need not to download excel format again.
 - b. In case updation in list of station is required (State owned stations), same can be modified through monthly page. At present this feature is disabled and very shortly it will be enabled.
 - c. Initial two row has station ID and name of station, which should not be disturbed and data will be uploaded based on these only. Any changes in it may lead to wrong data uploading.
 - d. User can select any file name to save and upload the data.
 - e. Once you filled data click on "If you have data ready in Excel, CICK HERE to upload", select date for which you want to upload data, browse for the desired file and click on UPLOAD.
 - f. If entire file has not been uploaded, you will get the file which will show list of stations not uploaded.
- 4) If new station to be added for state, user can add through monthly data upload pages. Once, it has added new EXCEL template to be downloaded again in order to fill data for new station.
- 5) User who wants to fill data directly through web-portal, would now have option to sort based on the various fields, which will help in filling data. Users who wants to fill on-line need not to click on "If you have data ready in Excel, CICK HERE to upload", they only select the date and simply click on "GO" button.

After submission of data, user can check directly on <u>www.meritindia.in</u>. It is once again requested to all to fill the monthly data (variable and fixed cost) because all visualization in first page is based on variable costs of the plants. In case of any doubt / clarification, Shri Harish Kr Rathour (NLDC) may be contacted at his Mobile No.9873918443.

Members may comply.

Deliberation in the meeting

Members noted for compliance.

Item No. B.15: 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.

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

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

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

Members may note.

Deliberation in the meeting

Members noted for compliance.

Item No. B.16: 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 and update the status.

Deliberation in the meeting

Members noted for compliance.

Item No. B.17: Data of Peak Demand – Submission of hourly power cut data

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

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

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

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

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

OCC advised all constituents to submit the data also to ERLDC (erldcprotection@gmail.com).

Members may note.

Deliberation in the meeting

Members noted for compliance.

Item No. B.18: Long outage of important transmission elements

a) 400 kv Barh – Motihari D/C

400 kV Barh – Motihari – D/C were out since 14th Aug, 2017 as 24 numbers of towers were submerged in Gandak River due to flood like situation. Right Now Motihari is drawing radial power from Gorakhpur S/S of Northern region through 400 kV Gorakhpur – Motihari D/C. Due to outage of 400 kV Barh - Motihari D/C, one inter regional link between Eastern and Northern region was out, which need to be restored with utmost priority to maintain all India reliable and safe power system operation.

In 138th OCC, It was informed that work for dismantling of bulged towers and establishment of ERSS tower of Barh-Motihari 400kV Line has just been started. As the location is not easily approachable, it would take 2 to 3 weeks to restore power flow through the line.

DMTCL vide letter dated 7th November 2017 informed that the line will be restored using ERS tower and submitted the schedule as follows:

400 kV Barh – Motihari line 1	by 7 th December 2017
400 kV Barh – Motihari line 2	by 24 th December 2017

DMTCL requested to consider the outage as deemed available as the lines were taken under shutdown due to Natural Calamity.

DMTCL may update. Members may discuss.

Deliberation in the meeting

DMTCL representative was not available in the meeting.

OCC felt that deemed availability cannot be discussed without DMTCL representative in the meeting.

b) Bus Reactor at Jamshedpur

50 MVAR Bus Reactor at Jamshepur was out since 05th June, 2017 for commissioning and replacement of new 125 MVAR Bus Reactor-II. As per earlier communication expected date of commissioning of the 125 MVAR Bus Reactor-II was 30th Aug, 2017. In addition to this one more Minutes of 139th OCC Meeting Page 19

125 MVAR Bus Reactor – III was also expected to commission during the month of September. Till date the status of the progress of commissioning work of new reactors is not updated from ER - I Power Grid side. Considering the voltage pattern at Jamshedpur S/s, which was on higher side most of the time during the day and would be deteriorate more with the onset of winter season, priority for the restoration of the Bus Reactors at Jamshedpur is utmost important.

In 138th OCC, Powergrid informed that both the reactors will be commissioned within 15 days.

Power Grid may update.

Deliberation in the meeting

Powergrid informed that one reactor has been installed on 15th November 2017 and the other reactor will be installed by end of November 2017.

Item No. B.19: Shifting of communication links for PMUs reporting to ERLDC--ERLDC

Presently, PMUs locations at Farakka, Talcher, Jamshedpur, Ranchi, Binaguri, Durgapur, Rourkela & Jeypore are reporting through Alcatel Mux using E1 – Ethernet convertor at both end. In case of fibre cut between Kasba to ERLDC, all the 8 nos PMUs data stopped reporting to ERLDC (happened on 16/May/2017 from 04:25 Hrs to 12:49 Hrs). There is no redundant path provided for these communication links. So, it is requested POWERGRID to shift these PMUs' communication path / equipment so that the protection path of ULDC network would be used and this type of outage could be avoided. Communication link for Patna PMU is taken from PowerTel. It is also requested to POWERGRID that communication path may also be shifted for Patna PMU so that PowerTel communication could be removed.

In 134th OCC, ERLDC informed that work is not yet completed.

Powergrid informed that 8 PMUs communication system have been shifted to ULDC network.

OCC advised ERLDC to send the details of requirement to Powergrid.

Accordingly, ERLDC has sent the detailed requirement for shifting of communication link to POWERGRID ULDC on 14-07-2017.

In 135th OCC, Powergrid agreed to complete the work within a month.

In 137th OCC, ERLDC placed the updated status as follows:

S/N	Location	Station type	Commmunicatio channel
1	Binaguri	400/220KV Substation	Shifted to POWERGRID ULDC wideband on 16 June,2017
2	Biharshariff	400/220KV Substation	Shifted to POWERGRID ULDC wideband on 24th November ,2015
3	Patna (ER1)	400/220KV Substation	2 MBPS PDT link from Patna to ERLDC , Kolkata
4	Farakka (NTPC)	400 kV Generating Station.	E1 link
5	Ranchi (ER1)	400/220KV Substation	E1 link
6	Rourkela	400/220KV Substation	Shifted on 01-09-2017 (was in progress on 136 th OCC meeting).
7	Talcher (NTPC)	400 kV Generating Station.	E1 link
8	Jeypore (Odissa pj.)	400/220KV Substation	E1 link

9	Durganur 1400/220KV Substation		Shifted on 30-08-2017 (was in progress on 136 th OCC meeting).
10	Jamshedpur (ER1)	400/220KV Substation	E1 link
11	11 Sasaram 765/400/220 kV SubSta		Shifted to POWERGRID ULDC wideband on 24th November ,2015
12	Rengali	A(0)/220KV Substation	Shifted to POWERGRID ULDC wideband on 17 April,2017

Powergrid agreed to complete the work at the earliest.

It was informed that Farrakka PMU (SEL Make) is now reporting to ERLDC over newly commissioned ULDC communication network.

PGCIL may update.

Deliberation in the meeting

ERLDC updated the latest status as follows:

S/N	Location	Station type	Communicatio channel
1	Binaguri	400/220KV Substation	Shifted to POWERGRID ULDC wideband on 16 June,2017
2	Biharshariff	400/220KV Substation	Shifted to POWERGRID ULDC wideband on 24th November ,2015
3	Patna (ER1)	400/220KV Substation	2 MBPS PDT link from Patna to ERLDC , Kolkata
4	Farakka (NTPC)	400 kV Generating Station.	Shifted on 13-11-2017.
5	Ranchi (ER1)	400/220KV Substation	E1 link
6	Rourkela	400/220KV Substation	Shifted on 01-09-2017.
7	Talcher (NTPC)	400 kV Generating Station.	E1 link
8	Jeypore (Odissa pj.)	400/220KV Substation	E1 link
9	Durgapur	400/220KV Substation	Shifted on 30-08-2017.
10	Jamshedpur (ER1)	400/220KV Substation	Shifted on 15-11-2017.
11	Sasaram	765/400/220 kV SubStation	Shifted to POWERGRID ULDC wideband on 24th November ,2015
12	Rengali	400/220KV Substation	Shifted to POWERGRID ULDC wideband on 17 April,2017

Powergrid informed that communication has been shifted to Powergrid ULDC for Talcher(NTPC) and Jeypore PMUs but shifting of communication link for Patna and Ranchi PMUs is not possible because of long distance between the PMUs and communication link.

Item No. B.20: 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.

In 120th OCC, ERLDC informed that every month they were updating the status and posting at ERLDC website.

138th OCC advised all the respective constituents to ensure the availability of telemetry data to ERLDC.

ERLDC may present.

Deliberation in the meeting

ERLDC presented the status of telemetry. Presentation is enclosed at Annexure-B20.

OCC advised all the respective constituents to ensure the availability of telemetry data to ERLDC.

a) Frequent failure of JITPL data to ERLDC:

Real time SCADA data from JITPL is frequently failing (*May-17: 24% & June-17 (up to 18th): 62%*). It was observed that

- Microwave terminal equipment at Talcher HVDC end is getting hanged quite frequently causing failure of real time data to ERLDC.
- The direct line from JITPL to Angul 765/400 kV pooling station is available but real time SCADA data is yet to be diverted through this path.
- The voice connectivity from JITPL to ERLDC is yet to be provided / integrated with Hot Line Voice Communication installed by M/s Orange.

In 136th OCC, JITPL informed that presently they are communicating ERLDC with a radio link, which is an interim arrangement and is not reliable and they are trying hard to maintain it. However, they had planned to make PLCC system operational for uninterruptable communication to ERLDC. But Powergrid is not allowing them to shift NSK modem of PLCC system from Bolangir(PG) S/s which is the property of JITPL.

JITPL added that they were in process of settling the commercial issues with Powergrid and requested Powergrid to cooperate.

OCC took serious note of the issue and felt Powergrid should not interrupt in establishing the proper communication system for SCADA/telemetry data to ERLDC. OCC felt that Powergrid should not take up commercial issue by staking the grid security and advised Powergrid to take up the commercial issue separately.

In 36th TCC, Powergrid agreed to allow JITPL to shift their PLCC modem from Bolangir S/s within a week.

JITPL informed that they will shift the modem within a week and they will commission the communication system in another 10 days subject to availability of OEM (ABB) engineers.

TCC advised JITPL to shift the modem as decided and update the status in forthcoming OCC meeting scheduled to be held on 21st September 2017.

In 137th OCC, JITPL informed that they have shifted the PLCC modem from Bolangir to Angul and they will commission the communication system by 15th October 2017.

In 138th OCC, ERLDC informed that JITPL data through PLCC is not yet restored.

JITPL may update.

Deliberation in the meeting

ERLDC informed that JITPL data through PLCC is not yet restored.

JITPL representative was not available in the meeting. Minutes of 139th OCC Meeting

Item No. B.21: Sustain Under-injection by ISGS generators during RRAS—ERLDC

During July and August 2017, NLDC triggered RRAS UP for ISGSs generators of Easter Region on several occasions. However it is observed that some of the ISGS failed to maintain their generation as per schedule and continuous under-injection was observed during the above mentioned period.

As per section 5.4 of Detailed Operating procedure of RRAS, "The continuity of the RRAS shall be ensured by the RRAS provider over the period of the despatch". However, this was continuously violated by ISGS stations of ER.

As per clause 9.13 of Detailed Operating procedure of RRAS

Quote -

Sustained failure, i.e. failure to provide the RRAS (barring unit tripping) by RRAS Provider(s) more than three (3) times during a month shall be brought to the notice of the CERC

Unquote

Detailed performance of ER ISGS from RRAS point of view would be presented during the meeting.

ISGSs are therefore requested to exercise due care while declaring their respective DCs, so that actual generation as per the total schedule issued, can be maintained by them.

In 136th OCC, ERLDC presented the performance of the RRAS provider generators during July & August 2017 and informed that in real time Barh, FSTPP stage I & II and KhSTPP stage I & II generators were failed to maintain their generation as per schedule.

OCC advised NTPC to follow the RRAS schedule strictly.

OCC advised ERLDC to monitor the status for one week and even if there is no improvement, the acion may be initiated as per the provisions of IEGC. Further, OCC advised ERLDC to place the status in next OCC meeting.

In 137th OCC, ERLDC informed that in real time FSTPP stage I & II are not maintaining their generation as per schedule and continuously under generating. KhSTPP stage II generators need improvement.

NTPC informed that they are implementing alarm system to alert the operator during RRAS initiation and it will improve the performance.

In 138th OCC, ERLDC informed that in real time FSTPP stage I & II are not maintaining their generation as per schedule and continuously under generating. KhSTPP stage II generators need improvement.

ERLDC may update.

Deliberation in the meeting

ERLDC informed that the performance of the NTPC generators during RRAS has improved.

ERLDC added that Farakka generation was not maintained as per the schedule on 10th November 2017.

NTPC informed that they are not able to maintain the generation as per schedule due to severe coal shortage. They are arranging imported coal and the coal shortage problem will be resolved within a week.

Item No. B.22: Need for expediting reactors at Subhashgram, Jamshedpur and Behrampur 400KV substations and adequate absorption of reactive power by power stations

Voltage of the following substations was above the allowable upper limit of 420kV for significant duration during October and November 2017:

Sub-station	% Duration >420kV	% Duration >420kV
	October-17	November-17 (upto 19-11-17)
Jamshedpur	99	100
Baharampur	32	49
Subhasgram	25	37
Arambag	92	100
Farakka STPS	27	57
Barh STPS	100	76
Sagardighi TPS	20	21
PPSP	26	44
HEL	20	33

Further, one circuit of the following D/C lines is being frequently switched off to control high voltage during off-peak:

- 400kV Kharagpur N. Chanditala
- 400kV Kharagpur Kolaghat
- 400kV N. PPSP Arambag
- 400kv Alipurduar Bongaigaon
- 220kV Madhepura N. Purnea

Therefore, Farakka, SgTPS, PPSP, Barh, HEL are requested to maximize reactive power absorption by their respective generating units. PGCIL may endeavour to commission the 50 MVAR line reactor at Subhasgram end of 400kV SgTPS – Subhasgram line, 2nd 125 MVAR bus reactor along with 50 MVAR old bus reactor which was out for commissioning work at Jamshedpur and new 125MVAR bus reactor at Baharampur at the earliest.

In 138th OCC, Powergrid informed that work order for Reactor at Subashgram is yet to be awarded. Two reactors at Jamshedpur will be commissioned within 15 days. Reactor of Behrampur will be delivered by January 2018.

Members may discuss.

Deliberation in the meeting

ERLDC informed that KTPS units are absorbing 20 MVAR during high voltage but there is a scope for absorbing 80 MVAR as per the capability curve. Sagardhigi units are not giving reactive power support during high voltage. ERLDC advised WBPDCL to provide GT tap position of Sagardhigi units.

OCC advised WBPDCL to take appropriate actions to absorb the reactive power during high voltages as per the capability curve.

OCC felt that in view of high voltage condition at 400kV Subashgram during the winter the over voltage settings of 400kV HEL-Subashgram D/C line need to be reviewed to avoid cascaded tripping of both the lines. OCC referred the issue to PCC meeting.

Powergrid informed that in view of high voltage at Behrampur they have diverted one 125MVAR reactor to Behrampur and the reactor will be installed by end of December 2017.

Powergrid informed that at Jamshedpur one reactor has been installed on 15th November 2017 and the other reactor will be installed by end of November 2017.

Item No. B.23: Status of state owned units under long outage -- ERLDC

Numbers of units of state sector were decommissioned during recent days/months. As per the letter received from DVC on date 08th August, 2017, CTPC U#2, BTPS U#1&2 are under the process of de-commissioning as they have crossed their useful life and compliance of prevailing pollution norms is not feasible and CTPS U#1 is already de-commissioned.

Members may update.

Deliberation in the meeting

Members noted for compliance.

Item No. B.24: Delineation of O&M responsibilities of various assets of the ISTS--ERLDC

With opening up of transmission sector for private participation and rapid addition of new ISTS elements through TBCB route, multiple transmission licensees are now involved, in so far as ownership and maintenance of the regional ISTS is concerned. A single transmission line may be partly owned by one licensee and partly by the other, while the bay equipment, panels etc. at each of the ends may be owned / maintained by two different transmission licensees. In the above backdrop, as the apex body to ensure integrated operation of the regional power system, it becomes essential for RLDCs to be accurately aware of the scope of responsibilities of each of the licensees, in order to discharge its responsibilities in a smooth and efficient manner.

A list of transmission elements in Eastern Region together with their ownerships as per information available with ERLDC is enclosed at **Annexure-B24.** It is requested to kindly go through the list and indicate the agencies responsible for maintenance of line, ensuring real time data, furnishing relay indication, DR etc. in respect of each of the elements and inform ERLDC wherever necessary updating / correction is required to be incorporated.

In 137th OCC, all the constituents were advised to update the status as given in the annexure and send it to ERPC and ERLDC within a week.

Powergrid ER-I & ER-II have submitted the details.

Members may update.

Deliberation in the meeting

Members noted for compliance.

Item No. B.25: Transfer capability determination by the states -- Agenda by NPC

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

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

ATC/TTC declared by states for the month of November-2017 is given below:

SI No	State/Utility	TTC import(MW)	RM(MW)	ATC (Import) MW
1	BSPTCL	4665	145	4520
2	JUSNL	980	60	920
3	DVC	377	52	325
4	OPTCL	1822	81	1741
5	WBSETCL	4100	300	3800
6	Sikkim			

In 138th OCC, ERLDC informed that the network data should be updated regularly on monthly for realistic calculation of ATC, TTC figures. A procedure has been made as follows:

- Updated Base case of Previous month both for peak and off peak case to be circulated by ERLDC by 2nd day of every month
- States have to update their network changes in the same case circulated by ERLDC till date and then load the LGBR of the upcoming month
- Updated case and calculated TTC of the upcoming month to be sent to the ERLDC by 10th of the current month

OCC advised all the SLDCs to update the network as per the above procedure.

Members may update.

Deliberation in the meeting

OCC felt that one base case should be circulated among the constituents in sequence so that whole ER network will be updated in same file.

ERLDC agreed.

Item No. B.26: 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.

OCC advised Powergrid to submit a report on latest status of implementation and advised to update the status on every OCC.

In 131st OCC, Powergrid submitted the latest status of PMU installation.

The updated status as furnished in 132nd OCC by Powergrid is given at **Annexure-B.26**.

POWERGRID may update the status.

Deliberation in the meeting

OCC advised Powergrid to update the status.

Item No. B.27: Status of Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipment.

The status of DR/EL and GPS as updated in previous OCCs is enclosed at Annexure-B.27.

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

Teesta Urja 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 update.

Deliberation in the meeting

Members noted.

Item No. B.28: 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- B.28.

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

Members may update the latest status.

Deliberation in the meeting

JUSNL informed that they are having eight 220/132kV ERS towers at following locations:

- Hatia 3 nos
- Ranchi 2 nos
- Dumka 3 nos

Item No. B.29: 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 and monitor the performance of the Genus meters. Powergrid should present this performance before constituents and subsequently the decision on replacement of the other time drifted meters will be taken up.

In 133rd OCC, Powergrid informed that 22 meters were replaced except Purnea. ERLDC informed that the performance of 22 newly installed meters are satisfactory and suggested that all other meters can be replaced.

OCC advised Powergrid to replace next 10% of heavily drifted meters as per the list.

In 137th OCC, Powergrid informed that out of 23 meters time correction has been done for 6 meters and 8 SEMS have been replaced. Rest will be replaced subjected to availability of shutdown.

In 138th OCC, Powergrid informed that 09 SEMs are yet to be replaced.

Further OCC decided to hold the replacement of SEMs till interfacing of Genus meters with AMR is resolved.

So far in Phase-II, 12 Meters has been replaced and Time Correction for 06 meters has been done. Details of meter to be replaced is as follows:

	List of drifted meters	to be replaced in	Phase-II	
SNO	LOCATION	METER SNO	FEEDER NAME	Region
1	MUZAFFARPUR(PG)	NP-5074-A	400 KV MUZAFARPUR (PG)-GORAKHPUR(NR)-1	ER-I
2	MUZAFFARPUR(PG)	NP-9981-A	400 KV MUZAFARPUR (PG)-GORAKHPUR(NR)-2	ER-I
3	RANCHI(PG)	NP-5835-A	400 KV RANCHI-SIPAT-1 (WR)	ER-I
4	RANCHI(PG)	NP-5836-A	400 KV RANCHI-SIPAT-2 (WR)	ER-I
5	RANCHI NEW (PG)	NP-7847-A	765 KV RANCHI NEW -DHARAMJAYGARH-1	ER-I
6	RANCHI NEW (PG)	NP-8753-A	765 KV RANCHI NEW -DHARAMJAYGARH-2	ER-I
7	MEJIA(DVC)	NP-5226-A	MEJIA END OF MAITHON(PG)-1	ER-II
8	MEJIA(DVC)	NP-5227-A	MEJIA END OF MAITHON(PG)-2	ER-II
9	BINAGURI (PG)	NP-5884-A	BINAGURI END OF BONGAIGAON (NER)-1	ER-II
10	BINAGURI (PG)	NP-5885-A	BINAGURI END OF BONGAIGAON (NER)-2	ER-II
11	ROURKELLA(PG)	NP-5933-A	ROURKELA END OF TARKERA (GRIDCO)-2	ER-II
12	KHARAGPUR(PG)	NP-7563-A	400 KV KHARAGPUR -BARIPADA(PG)	ER-II
13	MPL	NP-7970-A	MAITHON RB END OF RANCHI (PG)-1 (MAIN)	ER-II
14	MPL	NP-7971-A	MAITHON RB END OF RANCHI (PG)-2 (MAIN)	ER-II
15	MPL	NP-7564-A	MAITHON RB END OF MAITHON (PG)-1 (MAIN)	ER-II
16	MPL	NP-6518-A	MAITHON RB END OF MAITHON (PG)-2 (MAIN)	ER-II
17	STERLITE	NP-7572-A	400 KV STERLITE - RAIGARH(WR)-II(MAIN)	ER-II
18	STERLITE	NP-7372-A	400 KV STERLITE - ROURKELLA(PG)-II(MAIN)	ER-II
19	ROURKELLA(PG)	NP-5928-A	400 KV ROURKELLA (PG)-RAIGARH (WR)	ER-II
20	MIRAMUNDALI(OPTCL)	NP-5977-A	400 KV MIRAMUNDALI-ANGUL-1	ER-II
21	MIRAMUNDALI(OPTCL)	NP-5976-A	400 KV MIRAMUNDALI-ANGUL-2	ER-II
22	SUNDERGARH(PG)	NP-7634-A	765 KV SUNDERGARH-DHARAMJAYGARH-1	ER-II
23	SUNDERGARH(PG)	NP-7638-A	765 KV SUNDERGARH-DHARAMJAYGARH-2	ER-II

Powergrid/ ERLDC may update.

Deliberation in the meeting

It was informed that in view of removal of LILO of 400kV Rourkela-Raigarh line 1 at Vedanta, SEMs at Vendanta end are not required to change. Three numbers of SEMs are required to be changed in Phase-II.

OCC decided to change the pending three numbers of SEMs in Phase-II.

OCC decided to hold next phase SEM replacement till interfacing of Genus meters with AMR is resolved.

Item No. B.30: Meter related Issues-ERLDC

Due to the meter related issues of following locations energy accounting and its validation is being affected.

Issue	Location	Meter No	Line	Responsibility	Problem Since	Present Status
Non receipt of Data	1. NPGC	NP-1282-A NP-1287-A	132 KV Rihand & Sonnagar	BSPTCL	More than 3 month	Not Received. Status is same
UI Data	2. Raxaul, Betia, Motihari	ER-1227-A, ER-1173-A, ER-1250-A ER-1245-A ER-1248-A ER-1249-A	132 KV Motihari DMTCL	BSPTCL	Charging of Line	Status is same
Installat ion of	1.Subhashgram(WB		220 KV Subhasgram(PG) D/C	WBSETCL/PG CIL	Charging of Line	As informed by PGCIL,
Check/S) 2. New		220 KV	WBSETCL/PG	Charging of	Meter is available at

tandby	Town(CESC)	Subhasgram(PG) S/C	CIL	Line	Subashgram and the
meter	3. Bantala(CESC)	220 KV Subhasgram(PG) S/C	WBSETCL/PG CIL	Charging of Line	same to be collected by WBSETCL and to be put into service.
	4. EM Bypass(CESC)	220 KV Subhasgram(PG) D/C	WBSETCL/PG CIL	Charging of Line	Meter already connected but time synchronisation yet to be done. SEM data is not received by ERLDC

In 138th OCC , BSPTCL agreed to take appropriate action for sending the data of NPGC, However NPGC end data is not received by ERLDC.

Meter at WBSETCL/CESC end for New Town, Bantala and Subhasgram is yet to be installed.

PGCIL/BSPTCL/WBSETCL/may please further update the status.

Deliberation in the meeting

BSPTCL informed that SEM issues have been resolved at Betia and Motihari. NPGC SEM issue is pending due to integration problem.

Powergrid informed that SEM is available at Subashgram (PG), the meter is to be collected by WBSETCL and to be put in service.

WBSETCL representative informed that their testing team is having some reservations on installation of SEM at 220kV Subashgram (WB) and he advised to discuss the issue in PCC meeting. OCC referred the issue to PCC meeting scheduled to be held on 28th November 2017.

Item No. B.31: Integration of Genus Make meter in AMR-- ERLDC

In Eastern Region, order for procurement of 965 no of SEM's was placed with M/s Genus Power. First Lot of the meters have already been delivered by Genus and 24 meters of Genus make meter has been installed in different substation in ER. Issue of Integration of Genus make meters in AMR system was discussed in different fora of ERPC since March,17.In 36th ERPC meeting Powergrid informed that a meeting will be held on 20th September 2017 wherein the interfacing issues would be resolved by M/s TCS and M/s Genus.

In 137th OCC, Powergrid informed that a meeting will be held at RHQ Kolkata on 25th September 2017 wherein the interfacing issues would be discussed and resolved by M/s TCS and M/s Genus.

In 25th September 2017 meeting, it was agreed by all concerned that GENUS will implement the required changes at meter level within 15th October 2017 to resolve the pending issues related to Integration of Genus meter with AMR.

In 138th OCC, Powergrid informed that integration of Genus meters with AMR is pending because time block identification problem. This problem will be resolved through software by TCS on payment basis within 15 days.

Powergrid may please update the status.

Deliberation in the meeting

Powergrid informed that integration of Genus meters with AMR will be completed within 20 days. Powergrid added that additional financial implication of 10 Lakhs (approx) has been taken into consideration as per LOA.

Item No. B.32: Accounting of Tertiary Loading Arrangement at PGCIL s/station in ER

Auxiliary consumption of PGCIL EHV AC sub stations are usually met from HT feeders of the state Discom. In few substations of PGCIL, auxiliary consumption is met through tertiary winding (as alternate supply for reliability).

In 35th CCM, It was decided that the drawal of auxiliary power from tertiary winding by Powergrid substations would be treated as state drawl for inter-regional accounting. Powergrid and the states would make back to back commercial arrangements for this power. ERLDC requested Powergrid to submit the requisite information such as meter no, CTR, PTR, etc in respect of those meters and also make meter readings available ontime.

In 138th OCC, ERLDC informed that they are not getting the data of Biharshariff and Rengali.

Powergrid informed that SEMs are to be replaced at Biharshariff and Rengali. They will replace the SEMs and send the data.

It was also decided that the energy through Tertiary as state drawal and the meter reading will be sent to ERPC with immediate effect.

Accordingly Tertiary drawl of PGCIL S/s has been added to the respective state drawl wef 23.10.17.

Odisl	Odisha project is as below:								
	List of PGCIL	. subst	ation with	Tertia	ry Lo	ading in I	ER & Odhisa	Project	
ER-I									

Status of meter details and receipt of their data at ERLDC from Powergrid ER-I, ER-II and

	List of PGCIL	SUDST	ation with	i ertia	ry Lo	ading in E	R & Odnisa	Project
ER-I								
S. No	S/Station	Loc ID	Meter No	Make	CTR	PTR	Remarks	Data Receipt
1	Banka	ES-88	NP-7458-A	L&T	50	33000/110		Yes
2	Lakhisarai	ES-94	NP-8870-A	L&T	50	33000/110		Yes
3	New Ranchi(765)	ES-87	NP-8752-A	L&T	50	33000/110		Yes
4	New Purnea	ES-98	NP-5249-A	L&T	50	33000/110		Yes
5	Patna	ES-89	ER-1285-A	Genus	50	33000/110		Yes
6	Pusauli	ET-06	NP-8646-A	L&T	50	33000/110		Yes
7	Muzaffarpur	ET-02	NP-5231-A	L&T	1000	415/110		Yes
9	Kishanganj	ES-90	NP-8876-A	L&T	50	33000/110		Yes
11	Ara(220)	ES-99	NP-8893-A	L&T	50	33000/110		Yes
12	Chaibasa	ET-15	ER-1254-A	Genus	50	33000/110		Yes
13	Ranchi(400/220)	ET-14	ER-1251-A	Genus	50	33000/110		Yes
14	Jamshedpur	ET-20	ER-1259-A	Genus	50	33000/110		Yes
15	Gaya(765)	EM-99	ER-1263-A	Genus	50	33000/110		Yes
16	Biharshariff	ET-01	NP-2355-A	SECURE	1000	415/110		No
ER-II	& Odhisa Project							
1	Angul	ES-95	NP-5942-A	L&T	1000	415/110		Yes
2	Pandiabili	ES-39	NP-7462-A	L&T	1000	415/110		Yes
3	Rangpo (33 kv TRF)	ES-96	NP-7940-A	L&T	1000	415/110		Yes
4	Rangpo (11 KV AUX TRF)	ES-97	NP-7941-A	L&T	1000	415/110		Yes
5	Sundergarh	ES-93	ER-1019-A	Genus	50	33000/110		Yes
6	Maithon	ET-07	NP-7934-A	L&T	1000	415/110		Yes
7	Baripada	EM-69	NP-5909-A	L&T	1200	400/110		Yes
8	Durgapur	ET-04	NP-6024-B	L&T	200	400/110		Yes
9	Keonjhar	ET-11	NP-7921-A	L&T	50	33000/110		Yes
10	Subhashgram	ET-12	ER-1105-A	Genus	1000	415/110		Yes
13	Jeypore	ET-10	NP-5965-A	L&T	20	430/110		Yes
11	Bolangir	ET-03	NP-7951-A	L&T	1000	415/110		Yes
12	Rengali	ET-05	ER-1020-A	Genus	1000	415/110		Yes

Since Darbhanga and Motihari DMTCL S/S Tertiary is also loaded, Meters at Tertiary Tr/f of above s/s is required to be installed and Drawl should be accounted in BSPHCL net drawl.

ERLDC and Powergrid/DMTCL may update.

Deliberation in the meeting

OCC advised BSPTCL to pursue with Darbhanga and Motihari DMTCL S/S for installation of SEM.

Item No. B.33: Requirement of data from AMR for SEM Vs SCADA Comparison -- ERLDC

In Eastern Region, AMR is already implemented and successfully running. Provision of getting various reports like Load Curve, NPC report, time drift report, maximum & minimum flow reports etc already exist.

However, report of 15 minute tie line data from AMR is also required to be made available so that the same could be utilised for developing comparison / error checking for SCADA. ERLDC is planning to develop SCADA Vs SEM comparison report which can identify the error in SCADA or time drift in SEM. The same is planned to develop considering the view for improvement of the system. Accordingly, the concern will take necessary action to validate the SCADA / SEM.

In view of the above, it is requested to POWERGRID to take up the matter with TCS for implementation of the same.

In 137th OCC, Powergrid requested ERLDC to share the format and they will interact with TCS for implementation.

In 138th OCC, Powergrid informed that they have interacted with TCS and TCS is asking about the details of lines for which the data is required.

ERLDC informed that they required all tie line SEM data to be available at ERLDC.

Powergrid may update.

Deliberation in the meeting

ERLDC and Powergrid informed that TCS has implemented the scheme as per the requirement.

Item No. B.34: Mock Black start exercises in Eastern Region - ERLDC

i) The status of black start exercises

The tentative schedule of black-start exercises for F.Y 2017-18 is as follows :

	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	-
1	U.Kolab	Last week of May, 2017	30 th May 2017	Last Week of January2018	
2	Maithon	1stweek of June 2017		1stWeek of February2018	
3	Rengali	2ndweek of June 2017	Done or 29.06.2017	Last week of November 2017	30 th November 2017
4	U. Indarvati	3rdweek ofJune 2017	November 2017	2ndweek of February2018	December 2017
5	Subarnarekha	1stweek of October 2017	Done on 14 ^{tr} October 2017	1stweek of January2018	
6	Balimela	3rdweek of October 2017	November 2017	1stweek of March 2018	December 2017

7	Teesta-V	2ndweek of Nov 2017		Last week of February2018	
8	Chuzachen	Last Week of May2017	May, 2017	January2018	
9	Burla	Last Week of June 2017	,	Last week of February2018	December 2017
10	TLDP-III	1stWeek of June 2017	After 12the Dec, 2017.	2ndWeek of January2018	
11	TLDP-IV	Last Week of June 2017		1stWeek of February2018	
12	Teesta-III		December 2017		

Members may update.

Deliberation in the meeting

Members updated the schedule as mentioned in above table.

Testing of DG sets meant for Black start

Test run report of DG sets for blackstart has been received only from Odisha hydro units. The test run reports of other machines may be sent to erldc.cal@gmail.com and erldcoutage@gmail.com.

Constituents may kindly ensure compliance.

Deliberation in the meeting

Members noted for compliance.

Item No. B.35: 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-B35.

Analysis of governor response for the following events:

- (1) On 25th October 2017, at 19:33 hrs, due to loss of evacuation lines, Unit-I & II at TPCIL(660 MW each) in southern region got tripped.
- (2) On 30.10.17, at 21:37 Hrs, 400 KV TPCIL-Nellore PS ckt-1 tripped due to failure of Station transformer LA, Ckt-2 was under maintenance. Due to Loss of evacuation path generation loss of 1260 MW occurred.

Members may update. ERLDC my present.

Deliberation in the meeting

ERLDC presented the performance of the generators. Presentation is enclosed at **Annexure-B35A**. ERLDC informed that the performance of the generators is not satisfactory except KhSTPP unit#2.

ERLDC added that generator response calculated by individual generators was received from MPL, DVC and CESC.

OCC advised all the generators to go through the details in Annexure-B35A and take appropriate action to improve the performance. OCC also advised to calculate the response and send the results to ERLDC with all the details.

Item No. B.36: Ratification of projected Demand and generation for POC transmission charges and loss calculations for Q4(2017-18)

The projected Demand and Generation of ER constituents to be considered in the base case for POC transmission charge and loss calculations for Q4 (Jan 18-March 18) are attached at **Annexure-B36** for ratification by the constituents.

Members may kindly go through and confirm.

Deliberation in the meeting

Members noted for compliance.

Item No. B.37: Reactive Power performance of Generators and optimisation of Transformer tap

Generating stations have been monitored for certain sample dates in the month of October,17.

Power Plant	Max and Min Voltage observed	Date for monitoring (Oct 17)		
	for Oct 17 (KV)			
Farakka STPS	424, 410	21,22		
Khalgaon STPS	433, 408	30,31		
Talcher STPS	413, 402	20,21		
Teesta	413,398	27,29		
Bakreshwar TPS	411, 391	10, 21		
Kolaghat TPS	429, 400	21,22		
Sagardighi TPS	424, 406	21,22		
MPL	422, 409	1,20		
Mejia-B	425, 412	1,20		
DSTPS	428, 415	1,20		
Adhunik TPS	427, 410	20,21		
Barh	434, 420	1,21		
JITPL	419, 408	2,7		
GMR	417, 406	2,7		
HEL	428,392	9,21		
Kodarma	423, 408	1,14		

ERLDC may present the reactive performance.

Deliberation in the meeting

ERLDC presented the performance of the generators.

OCC advised generators to absorb reactive power during high voltage condition as per their capability curve.

a) Schedule for reactive capability tests

The following was status of regarding reactive capability testing:

- a. Adhunik TPS(both units) -Yet to be confirmed by Adhunik
- b. JITPL(both units) After the emergent inspection of OEM(BHEL)
- c. Barh TPS November 2017
- d. Raghunatpur by December 2017
- e. GMR (Three units)
- f. Haldia TPS Done in October 2017

Members may update.

Deliberation in the meeting

Members noted.

Item No. B.38: Non Payment of dues--Powergrid-Odisha

- A. **JITPL**: Rs. 1.67 Crore from M/s JITPL (Rs. 1.12 Crore towards bay maintenance + Rs. 52.38 Lakh towards interest charges + Rs. 2.36 Lakh towards project consultancy)
- B. **GMR**:Rs.37.99 Lakh is due from M/s GMR towards Bay maintenance charges
- C. **Ind-Bharath Energy(Utkal) Ltd(IBEUL):** Rs.74.16746 Lakh is due from M/s Ind-Bharath (Utkal) Energy Limited towards Bay maintenance and Interest charges.

Deliberation in the meeting

OCC advised JITPL, GMR and IBEUL to clear the dues.

Item No. B.39: Recovery of loss due to schedule revision during flodding of Kishanganj S/S of PGCIL-Teesta Urja Ltd.

Due to flooding at Kishanganj S/S of PGCIL, the IEX schedule of Teesta-III HEP and other Projects was directed to be revised from 10:00 hours to 24:00, hours on 13.08.2017. However, vide subsequent communications, the curtailment of schedule was initially directed to start from 10.00 hrs, which got changed to 10.30 hrs and again to 10.00 a.m. However, the IEX schedule which had got curtailed from 10.30 hrs could not get revised to 10.00 hrs leading to the Teesta-III (and other Projects) being penalized under DSM for two time blocks from 10.00 hrs to 10.30 hrs.

It is requested to deliberate the matter so as to facilitate recovery of such loss to the Generators."

Members may discuss.

Deliberation in the meeting

It was informed that ERPC and ERLDC will study and place the details in next OCC meeting.

Item No. B.40: Revision of final schedule of Dikchu HEP and revocation of UI penalty inflicted on 13.08.2017- Dikchu

On 13.08.2017, Dikchu was advised by ERLDC through mail and phone to back down the generation to Zero w.e.f 10:00 hrs, 13.08.2017, as all STOA & collective transactions were cancelled due to flooded condition at Kishanganj S/s. Dikchu plant was shut down promptly within 10:01 hrs.

The final schedule of Dikchu HEP was revised to Zero w.e.f 10:30 hrs by NLDC. The consequence was that as per final generation schedule data, although Dikchu was able to generate 96 MW in between 10:00 hrs to 10:30 hrs, Dikchu generation was Zero in real time incurring heavy UI penalization.

It is requested to consider the merit of the incidence and accord consent in revision of the final schedule of 13.08.2017 from 10:00hrs to 10:30 hrs to Zero in respect of Dikchu HEP.

Members may discuss.

Deliberation in the meeting

It was informed that ERPC and ERLDC will study and place the details in next OCC meeting.
PART C:: OPERATIONAL PLANNING

Item no. C.1: Anticipated power supply position during December'17

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of December'17 were prepared by ERPC Secretariat on the basis of Provisional LGBR for 2015-16 and feedback of constituents, keeping in view that the units are available for generation and expected load growth etc. is at **Annexure-C.1**.

Members may confirm.

Deliberation in the meeting

Modified anticipated power supply position for the month of December, 2017 after incorporating constituents' observations is given at **Annexure-C.1**.

Item no. C.2: Shutdown proposal of transmission lines and generating units for the month of December'17

Members may finalize the Shutdown proposals of transmission lines and generating stations for the month of December 17 as placed at **Annexure-C.2**.

- Teesta V Unit #1 shutdown from 1st December 2017 to 21st December 2017 for Annual Maint.
- Teesta V Unit #2 shutdown from 23rd December 2017 to 12th January 2018 for Annual Maint.
- TSTPS stage-I unit #1 shutdown from 24th November 2017 for 30days.

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

Deliberation in the meeting

Approved maintenance programme of generators and transmission elements for the month of December, 2017 is given at **Annexure-C.2**.

OCC approved the maintenance programme of following generators:

- Teesta V Unit #1 shutdown from 2nd December 2017 to 22nd December 2017 for Annual Maint.
- Teesta V Unit #2 shutdown from 24th December 2017 to 13th January 2018 for Annual Maint.
- TSTPS stage-I unit #1 shutdown from 1st December 2017 for 30days.
- Unit #2 (110MW) of MTPS stage-1 overhauling is scheduled from 27th November 2017 to 26th December 2017.

NTPC informed that they have not taken shutdown of Farakka unit #1 & Khahalgaon unit #2 as mentioned in the minutes of 138th OCC meeting. They have taken shutdown of Khahalgaon unit #1 (210MW) from 15.11.2017 to 19.12.2017 for 35 days.

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

(i) Thermal Generating units:

Sr. No	Generating Station	Unit Numbe r	Capacity (MW)	Reasons For Ouatge	Outage Date
1	MPL	1	525	OVER HAULING	27-Oct-17

2	KAHALGAON	1	210	OVER HAULING	15-Nov-17
3	VEDANTA	2	600	MAINTENANCE	28-Jun-17
4	ADHUNIK	2	270	GENERATOR VIBRATION	7-Sep-17
5	JITPL	2	600	HEAVY BONNET LEAKAGE FROM EMERGENCY BOILER DRAIN VALVE	9-Nov-17
6	KOLAGHAT	6	210	STATOR EARTH FAULT	11-Jun-17
7	MEJIA	5	250	PRESENT PROBLEM IS IN BARRING GEAR	22-Sep-17
8	MEJIA B	8	500	VIBRATION PROBLEM IN BEARING ,turbine blade damage	7-Aug-17
9	SANTALDIH	5	210	ROTOR EARTH FAULT	30-Apr-17
10	BAKRESWAR	3	210	BOILER TUBE LEAKAGE	20-Nov-17
11	DPL	7	300	MAINTENANCE WORK	20-Oct-17
12	KBUNL STG II	2	195	COOLING WATER PROBLEM	3-Nov-17
13	KBUNL STG II	1	195	COOLING WATER PROBLEM	17-Nov-17
14	RAGHUNATHP UR	1	600	COAL SHORTAGE	14-Nov-17
15	MEJIA	1	210	COAL SHORTAGE	31-Oct-17
16	BAKRESWAR	4	210	COAL SHORTAGE	13-Nov-17
17	SAGARDIGHI	4	500	COAL SHORTAGE	9-Nov-17
18	SAGARDIGHI	2	300	BOILER TUBE LEAKAGE	16-Nov-17
19	BOKARO B	3	210	COAL SHORTAGE	2-Oct-17
20	GMR	3	350	COAL SHORTAGE	21-Nov-17

(ii) Hydro Generating units:

Sr. No	Generating Station	UNIT NO	CAP(MW)	. ,	
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	U.KOLAB	2	80	Repair of MIV & Draft tube gate leakage	28.05.2017
6	RENGALI	5	50 Hoist gate problem		21.03.2017
7	RENGALI	1	50	Stator Earth fault	08.09.2017

(iii) Transmission elements

Transmission Element / ICT	Agency	Outage Date	Reasons for Outage		
220 KV BALIMELA - U' SILERU	OPTCL / APSEB	27.04.15	LINE IDLE CHARGED FROM UPPER SILERU END AT 12:42 HRS OF 25.01.17		
400KV MOTIHARI-BARH-I & II	DMTCL	14.08.17	24 NO OF TOWERS IN GANDAK RIVER WHERE WATER LEVEL IS HIGH		
220 ALIPURDUAR SALAKATI D/C	POWERGRID	17.11.17	TOWER BENDING IN LOCATION 196		
220 KV BUDHIPADAR KORBA- I	POWERGRID	1.11.17	MULTI CKT TOWER ERECTION AND DIVERSION WORK FROM LOC 29 to 40		

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

Members may update.

Deliberation in the meeting

Members noted.

Item no. C.4: Status of commissioning of generating station and transmission elements

New generating units:

S.No.	Power Plant	Plant Size	Expected date	

New transmission elements:

SI No.	Name of Element	Expected date
1	400kV Rajarhat-Purnea D/C (with LILO of one circuit each at	
	Farakka and Gokarno)	
2	Augmentation of 400kV Farakka-Malda D/C with HTLS conductor	
3	400kV Ind-Bharath-Jharsuguda D/C	
4	400kV Talcher-Bramhapur-Gazuwaka D/C	
5	400kv Talcher-Rourkella(2 nd D/C-Quad)	
6	400kV Sterlite-Jharsuguda D/C	
7	765kv Anugul-Srikakulum D/C	
8	400kV Sasaram-Daltonganj D/C &Daltonganj S/Stn	
9	400 kV Ranchi-Raghunathpur D/C	
10	220 kV TLDP-IV – NJP ckt-2	
11	220 kV Bidhansai-Cuttack D/C	
12	220kV Gola- Ranchi	

Members may update.

Deliberation in the meeting

Members noted.

PART D:: OTHER ISSUES

Item no. D.1: UFR operation during the month of October'17

System frequency touched a maximum of 50.20 Hz at 13:02 Hrs of 10/10/17 and a minimum of 49.65 Hz at 18:10 Hrs of 13/10/17. 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. D.2: Non-compliance of directions issued by SLDC

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

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

No report from any constituent has yet received. Hence, ERLDC would be considering 'Nil' report for all constituents for October'17.

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.3: Grid incidences during the month of October, 2017

Sr No	GD/ GI	Date	Time	S/S involved	Summary	Load loss (MW)	Gen loss (MW)
1	GD- I	12/10/2017	12:55	Teesta V	At 12:55 hrs, Y-N fault occurred at 400 kv Teesta - Rangpo - II. The line tripped from Rangpo. B/C at Teesta tripped due to E/F protection resulting tripping of unit III due to loss of evacuation path. (Relay Indication at Teesta: Y-N , Z-1 , F/D- 18 KM , F/C - 4.5 KA)	0	170
2	GD- I	13/10/2017	14:39	Teesta III	400 kV Teesta III - Rangpo S/C tripped due to Y-B fault resulting tripping of unit I, III, IV, V & VI at Teesta III and running unit at Dikchu. Relay indication: Y-B, Z-I, 29.4 km from Teesta III, F/C 4.16 kA, 3.22 kA. (Loss of generation at Teesta III: 0.1299 MU)	0	750

3	GD- I	17/10/2017	10:23	Chandak a	220 kV Mendasal - Chandaka Q/C tripped due to fault in 220 kV Mendasal - Chandaka - I resulting power failure at Chandaka end. Power was extended to Chandaka by charging circuit II	230	0
4	GD- I	18/10/2017	18:19	Purnea	At 18:19 hrs, 132 KV Purnea(PG) - Purnea(BSPTCL) T/C tripped (from PG end only) due to failure of B phase jumper of line isolator at Bihar end. Total power failure occurred at 132 /33KV Purnea S/S (BSPTCL).	200	0
5	GD- I	19/10/2017	11:55	Dikchu	At 11:55 hrs , 400 KV Teesta III Dikchu S/C tripped on Y-B-N fault resulting loss of unit II at Dikchu	0	58
6	GD- I	20/10/2017	23:53	Madhep ura	Total power failure occurred at Madhepura, Saharsa, Sonebarsa and Udaikishanganj after tripping of 220 kV Purnea - Madhepura D/C due to Y-N fault.	124	0
7	GD- I	26/10/2017	09:22	Sultanga nj	Total power failure occurred at Sultanganj, Tarapur and Part of Munger after tripping of 132 kV Banka – Sultanganj D/C in R-N fault (Relay Indication: Ckt II: R-N, F/C 2.19 kA, 41.27 km from Banka, Ckt I: R-N, 2.8 kA, 31.62 km from Banka).	32	0
8	GD- I	26/10/2017	12:02	Teesta III	At 12:02 hrs, 400 kV Teesta III – Dikchu S/C along with all running units at Teesta III tripped on O/V (as reported by Teesta III) at Teesta III end. Running unit (U#1) at Dikchu tripped due to loss of evacuation path.	0	460
9	GD- I	27/10/2017	13:17	Teesta III	At 13:17 hrs, 400 kV Teesta III – Dikchu S/C along with all running units at Teesta III tripped due to DC earth fault (as reported by Teesta III) at Teesta III end. Running unit (U#1) at Dikchu tripped due to loss of evacuation path.	0	850

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.4: 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 October, 2017 of Eastern Region which is enclosed at **Annexure- D.4**.

Deliberation in the meeting

Members noted.

Item no. D.5: Additional agenda

1. Option for handling intra-day load/generation variation due to RE or otherwise.

Sub-Group under FOR Technical Committee on Grid Integration of Renewable Energy (RE), with reference to regional cooperation had a meeting on 18.8.2017 in CERC office, New Delhi. Record of proceedings is placed in Annexure-D5.1.

As decided in the meeting various options for handling intra-day load / generation variation due to RE or otherwise, as discussed in the meeting be circulated and discussed with Members of Regional Power Committees and **feedback on the same may be provided to us to facilitate further deliberations and suitable recommendations by the FOR Technical Committee on Grid Integration of RE.**

Members may discuss and decide.

Deliberation in the meeting

OCC advised all the members to go through **Annexure D5.1** and submit their comments to ERPC vide mail (mserpc-power@nic.in) within five working days.

2. 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 137th OCC, Powergrid informed that tower no. 79 of 132kV Rangpo-Melli D/c line and Chuzachen(Rangpo)-Gangtok transmission lines falls under the jurisdiction of Energy & Power Department, Govt. of Sikkim.

Powergrid added that the issue has been informed to Sikkim vide letter dated 20th September 2017.

Deliberation in the meeting

Powergrid presented the condition of tower and placed the details of towers along with jurisdiction as follows:

Sl No.	Name o Lines	of Tot Lin Ler (in KN	ne ngth	Total Towers	Under PGC TL	IL Rangpo	Total Towers (PGCIL)	Under Govt.	Sikkim	Total Towers (SIKKIM Govt.)
					From	То		From	То	
1	132kV Rangpo- Melli	16.	65	71	3,4,1 (M/C) Melli Gantry	(96-59) & (M15-M1) Rangpo Gantry	55	77 (LILO)	92 (LILO)	16

2	132kV	48.416	177	3,4,1	96-176	84	77	92	16
	Chuzachen-			(M/C)			(LILO)	(LILO)	
	Gangtok			Melli					
				Gantry					

Sikkim representative was not available for discussion.

It was decided that the issue will be communicated to Sikkim for tower rectification work on priority.

3. Shutdown requisition for Repair/Rectification of tower location No.-1 (Multi-Ckt D-Type Tower with Strengthened X-arm) of 220kV D/C Rangpo-New Melli TL-Powergrid

Powergrid informed that location No.-1(Multi-Ckt D-Type Tower with Strengthened X-arm) of 220kV D/C Rangpo-New Melli TL is situated just outside the boundary of POWERGRID Rangpo SS. Due to sudden landslide during 1st week of Nov-17, boulders & trees from top of the hills have fallen on the tower resulting severe damage to 2 legs of the tower. Several members of the tower has got bend and in 2 legs bend has been noticed from Stub portion.

Presently, the tower has been strengthened through several Guyed Arrangement but since the tower is situated in the slope of hills, permanent restoration of the tower has to be carried out on emergency basis.

Powergrid informed that they are planning for permanent rectification of the tower through replacement of all bend members including bend stub. For replacing the bend stub, the whole tower has to be dismantled and upon replacement of damaged stub, the tower has to be erected again. In order to carry-out the whole work, continuous S/D of both ckts of 220kV D/C Rangpo-Melli TL is required for around One & Half Months tentatively wef 15th January 18 to end of Feb-18.

As this is an activity carried out for system improvement, it is requested to consider the outages for above activities as per CERC regulations for non-attributable to POWERGRID.

Deliberation in the meeting

OCC felt that outage of 220kV Rangpo-New Melli D/C line will create problems for power evacuation of all connected generating stations.

OCC decided to discuss the issue with Powergrid and all the concern generators in a separate meeting on 11th December 2017 at ERPC, Kolkata.

It was informed that deemed availability will be considered as per the provisions of CERC regulations.

4. Requisition of S/D of 400kV D/C Binaguri-Bongaigaon line for Conductor repairing work --Powergrid

400kV Binaguri-Bongagigaon D/c lines were kept under S/D time to time due to over-voltage constraints as per ERLDC instructions. During this S/D periods, at several locations, outer-layer of conductor has been theft by miscreants. Presently we are planning to rectify all those locations through replacement with fresh conductors where damage is severe and through conductor lapping where few strands have been cut.

In order to carry-out the above work, S/D is required for 10 days each ckt at a time wef 15th Jan-2018.

As this is an activity carried out for system improvement, it is requested to consider the outages for above activities as per CERC regulations for non-attributable to POWERGRID.

Deliberation in the meeting

Shutdown will be available subjected to NLDC approval.

It was informed that deemed availability will be considered as per the provisions of CERC regulations.

5. 220kV D/C Birpara-Chukha line & 220kV S/C Birpara-Malbase line for Shifting of Line due to change in course of river Torsa--Powergrid

Powergrid requested for following shut down for taking up erection and stringing work.

1)220KV Birpara Chukha-D/C (Ckt-I&II) from 08:00Hrs of 01.12.2017 to 17:00 hrs of 10.12.2017 on continuous basis. 2)220KV Birpara Chukha-Malbase S/C from 08:00Hrs of 11.12.2017 to 17:00 hrs of

2)220KV Birpara Chukha-Malbase S/C from 08:00Hrs of 11.12.2017 to 17:00 hrs of 14.12.2017 on continuous basis.

The above shutdown is required for rerouting of the above line for river course change which is to be completed before onset of rainy season.

As this is an activity carried out for system improvement, it is requested to consider the outages for above activities as per CERC regulations for non-attributable to POWERGRID.

Deliberation in the meeting

Shutdown will be available subjected to NLDC approval.

It was informed that deemed availability will be considered as per the provisions of CERC regulations.

6. Up gradation of old protection system for Transformer/Reactors in Different SS of ER-II--Powergrid

As per latest protection guidelines and standards Relay replacement work has been undertaken by ER-II in phased manner. All the Transformer/Reactor having static type relays will be retrofitted with Numerical Relays for better accessibility. Even some of the first generation numerical relays not having features of **IEC-61850** also considered for replacement for reliability purpose. Already S/D list covers such items for following S/s:

1. Maithon, 2. Binaguri, 3. Malda, 4. Subhasgram, 5. Gangtok

As this is an activity carried out for system improvement, it is requested to consider the outages for above activities as per CERC regulations for non-attributable to POWERGRID.

Deliberation in the meeting

It was informed that deemed availability will be considered as per the provisions of CERC regulations.

7. Installation of 2nd Bus Reactor at Berhampur--Powergrid

Under ERSS-XV, 01 NO 125 MVAR Bus Reactor to be commissioned at Berhampur. To address the need of the system, 01 no 125 MVAR has been arranged. As per original scheme, existing

400 KV Farakka-Berhmapur Bay will be shifted to its new place and in old bays of Farakka-Berhmapur upcoming Reactor will be commissioned.

Accordingly, for shifting to new bay existing Farakka - Berhampur Ckt require S/D of 10 Days on continuous basis. Tentatively the programme for S/D given from 20.12.17 to 30.12.17. After that another 15 Days require for commissioning of new Reactor.

As all above outages will be related to ERSS-XV pacakage, it may be considered under Deemed category as per CERC regulations.

Deliberation in the meeting

It was informed that deemed availability will be considered as per the provisions of CERC regulations.

8. Shutdown for insulator replacement--Powergrid

The following lines has been proposed for approval in 139th OCC meeting for either replacement of Porcelain insulator with Polymer insulator or Insulator washing in Polluted stretches of Transmission lines:

Name of Line	Date	From	Date	То	Nature	S/D availed by	Reason
400 KV PTN - BALIA -1	04.12.17	9:00	05.12.17	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING at loc no 7, 70 to 90, 101 to 111, 135 to 145 etc.
400 KV PTN - BALIA -2	06.12.17	9:00	07.12.17	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING at loc no 7, 70 to 90, 101 to 111, 135 to 145 etc.
400 KV KODBSF -1	08.12.17	9:00	09.12.17	18:00	ODB	POWERGRID ER-I	5,6,12,13,15,21,21,25,26,27 etc.
400 KV KODBSF -2	10.12.17	9:00	11.12.17	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING at loc no 5,6,12,13,15,21,21,25,26,27 etc.
400 KV BSF - VNS-1	12.12.17	9:00	13.12.17	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING at loc no 116, 18, 29-30, 113, 152-153 etc5,6,12,13,15,21,21,25,26,2 7 etc.
400 KV BSF - VNS-1	14.12.17	9:00	15.12.17	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING at loc no 116, 18, 29-30, 113, 152-153 etc5,6,12,13,15,21,21,25,26,2 7 etc.
400 kV Patna-Barh CKT - I AND 400 kV Kahalgaon-Barh CKT - II	04.12.17	8:00	09.12.17	18:00	ODB	POWERGR ^{In:} ID ER-I	eplacement of Porcelain sulator with Polymer ones Multi Circuit portion & sulator washing at Loc no 5 to 550 and 654 to 657.
400 kV Patna-Barh CKT - II AND 400 kV Kahalgaon- Barh CKT - I	11.12.17	8:00	16.12.17	18:00	ODB	POWERGR ^{In:} ID ER-I in:	eplacement of Porcelain sulator with Polymer ones Multi Circuit portion & sulator washing at Loc no 5 to 550 and 654 to 657.
400 kV Patna-Barh CKT - III AND 400 kV Barh- Gorakhpur CKT - I	18.12.17	8:00	23.12.17	18:00	ODB		eplacement of Porcelain sulator with Polymer ones Multi Circuit portion

400 kV Patna-Barh CKT - IV AND 400 kV Barh- Gorakhpur CKT - II	26.12.17	8:00	31.12.17	18:00	ODB		Replacement of Porcelain Insulator with Polymer ones at Multi Circuit portion
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The above outage period during proposed shutdown may kindly be treated as available for the purpose of Availability calculation.

Deliberation in the meeting

OCC agreed to consider the shutdown period as deemed availability as per the decision of 30th TCC/ERPC meetings and provisions of CERC regulations.

9. Washing of insulators of transmission lines in stubble burning area.--Powergrid

During patrolling of some lines listed below of ERTS-I , it has been observed that a layer of stubble burning residue has been deposited over the surface of insulators in many locations due to burning of stubble of paddy crop for make the way for Rabi crops by farmers. Last year we had witnessed numbers of tripping of various transmission lines of ERTS-I during winter season due to heavy fog and upon analysis of tripping , it had been found that the tripping of lines had happened due to deposition of stubble burning residue over insulators surface causing flash over/decapping of insulators.

In view of above ,washing of insulators need to be carried out on urgent basis before onset of winter season to avoid unwanted tripping of transmission lines due to flash over of insulator/ decapping during heavy fog condition. The insulators washing work of some lines has already been carried out with due permission of ERLDC and for some lines works to be done on priority basis. It is pertinent to be mentioned here that the insulators washing works is very much important for Grid security and stability.

The shutdown detail of below mentioned lines has been listed in 139th OCC shutdown list.

1) 400KV PTN -BARH CKT-1&2.
 2) 400KV PTN-BALIA CKT-1&2.
 3) 400KV KODERMA-BIHARSARIF CKT-1&2.
 4) 400KV SASARAM-ALAHABAD.
 5) 400KV SASARAM-VARANASI.

Deliberation in the meeting

OCC agreed for shutdown as per the approved shutdown in Annexure-C2.

Meeting ended with vote of thanks to the chair

mnexuse -A

Participants in 139th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 27.11.2017 (Monday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
1	J. BANDYOPADHY	M MS ERPC	9 4 3 2 3 - 2 6 3 5 1	@ MSespe- power @ Gav. u	8B
2	P. MUKH CPADHYAY	FD, FRLDC	98694 38073	priakho padhyay @ pocco.	an - Balles
3	S.BANERJEE	DGM, ERLDC	9433041823	surget banorge Operer in	kir.
4	S.R. singh.	DGIN POWERGRA	8544401030	Linghan powersny ind	o at.
5	B. Pan	CE-I/SLOC/OVE	9903247102	bpan. drc@gmail lon	Bpmo
6	S.K. Sharma	AGMOS), EFF NITPC Ltd.	40 9471008355	sisharmago onte- win	, cru
7	R.P. Singh.	AGM, Commil.	9431011366	rampaniksha@ rediff mail.com	
8	A. R. Chalpadry	ALM (O/ETMA)	943403598	alectical spectry and a matter. Co. in	benjen
9	S.K. Das.	Manager(E) NHPC, Co.	9717786721	Sdas_nhpc@yahoo.lo.in	Das
10	Oma Nath Kvikel	AE, BAPC/CAP	+97512888335	Kuikerkhp egmail-lom	Al
11	RAKEH TAUKAA	2 Sr. Kings	9204855243	ravest taulidar of	on the
12	N. viswanadh	ERLDC	94330 41874	mviswanach and	
13	Raj Pratim	ERLDC	9903329191	suppratin @ posoco.in	k
14	A.K. Basak	ERLDC	9007059569	akbasak @ posoco.in	AB
15	Tenzin Dom'	EE/DGPC	97517617574	6 dogizze ednugen br	MARCA 1
16	Leela Showmer	Sola DAPE	7975 17504296	Shavimalalit 46370gunillo	m Koht
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18	R.K. Mandel	AGM (FEARE) NTPC/KhSTPS	9431600132	okmandel any coin	A.
19	B. SAHU	NTPC/Bank	8544419456	.00 .	
20	S.P. Barnhal	ERLDC	9433041812	spharmural & posace, in	4,510 4

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

Participants in 139th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 27.11.2017 (Monday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
21	S.K. SAMU	CM/POINERGRID odishe foojects.	9078883643	SKSahu @ Rowengnid Undia	210/112_
22	A.N. Pal	CH, BFLOC	98.31339589	a-n-fal Artueil. a	Arry
23	S. KONAR	CM, ERIDC	993633537	Kover-sakosoco.in	Jonar
24	Cimanica	Engr., ERLOC	9007059660	chandan mawice @ Posocan	Alarrando
25	P. GHON+	Dy.Mor	9434748263	forther	f2
26	Ishon Singh Bughe	APNRL	9303544699	ishon singh bughel @ adhunikgroup.co.in	Di
27	B-B Blo	Dyman/BRLDe	9432351830	bibhus celognail. Con	Base
28	Riveshottom Charlen		980093686	Chaudhary 2986 By gmail Com	Handhay
29	Alikpantha De	AFE, ERPC	9681932906	alikpantha@gmail.con	ADe
30	P-P. Jena	AEE, ERPC	9776198991	t€jena.enpc@pov.in	Bring
31	NADEM AHMAS	MGR. ERLDR	9432357831	nadim@osoco.in	12)n
32	D.R. Bauri	EE ERPC	9883617236	radimeposoco.in ecop. espe @gov.in	Sont
33	J. G. Sao	RE, ERPL		exeb_ceale youhcorco.	Appda
34	Poenjoet Kum	ESE/BSPTCL	7763817712	Prenject 75 @ gorail.cm	frigan
35	Bibba kunemi	AERE BSPTUL	7091097885	K2010 bibba @grand	
36	Portee Mishra	AEELBSPTCL	9691623774	pritiiitns@gmail.com	P. Mod
37	Tushar lawjan	AEE (SLOC/Rowin	9326374226	vanitustare muil.	Lauja
38	Rayjesh Kumar Pandep	EEE JUSHL SLUC ROM	9934138298	Kirajeshipe grand.	Right und up
39	C.K. Haldar	ACE WBSLDC	9434910379	ckhaldar@yahoo.co.m	Balders
40	A. Bardhan Roy		9434910302	abard han roy S4@ reditionil	. d.

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

Participants in 139th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 27.11.2017 (Monday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
41	N. 9-Seh.	Dum! WBPDEL	8336993700	ngrada espelei.	ussa.
42	U.K. Pal	Sm (pp) DPL	9434735981	cekpaldyl @gunisten	12.
43	U.N. Mishr	CGM PP Grupe	o 91438907774	Sgm. Megndo. co. in	es
44	P.K.DAS	DGM(EL) SLOC Odish Bhabaesur	94 38907408	prosperty_das grann c.m.	N2
45	B. PANDA	AGM (E1.) SLDC Bhubanegway, Odishu	9438907415	bibhug89@gmail- 6000	BR
46	H.P. Mabapatoa	AGM, OHPE Pomanon hurer	7328860015	"Apon, Ohpe Ofmer, com	War
47	ARVIND NOGWA	D.M. THI	3571723462	AKNOGIA (Bunal. Con	M
48	NEELESH GUPTA	Marinhenny Kind	3816805252	neelesh gufte and and	ren
49	Jesendra Pr. Mallik.		9777456727	je tendre. Melik Ogmingoraf	WATE
50	P.K. DAS	AGIM(OS), MTPC, ERHOL-1, KOUNDE	9428233216	produced antipacies, in	Anda
51	SUMIT DASGURTA	Sr. Mgr. (PS) N.BPD(L	8336903911	5. dusquit @ wordel. co.in	Shopert
52	S.K. HABRA	DTom Amoly	9433041809	Steforgen Openentin (a hon
53	D.DE	MGR/DEIC	9163312742	debardine Orp- sp	in hag.
54	DPBhargava	TUL	9958833995		- Ar
55	S.K. MISHRA	DGM(05) NTPC ER-II	9438233207	Sumishcost in	RN .
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"Coming together is a beginning, staying together is progress, and working together is success." -Henry Ford

ERLDC POSOCO

Power System Operation Corporation Ltd.

139th OCC Meeting



At ERPC, Kolkata 27th November, 2017 ER Grid Performances



Annexure-A1

Highlights for the month of October-17

Frequency Profile Average Freq:- 49.97 Hz Avg FVI: - 0.048 Lowest FVI:- 0.02

Max- 50.20Hz on 10th October' 17 Min- 49.65 Hz on 13th October' 17

77.21% of the time freq was with in IEGC Band

Peak Demand

ER: 21116 MW on 18th October 2017 at 19:43 hrs % Growth in Average Demand Met w.r.t. last year- 6.01%

BSPHCL : 4488 MW ; ON 09/10/17 JUVNL: 1192 MW; ON 15/10/17 DVC: 2978 MW; ON 28/10/17 GRIDCO: 4656 MW; ON 10/10/17 WB: 8376 MW; ON 16/10/17 SIKKIM: 101 MW; ON 10/10/17

Energy met Max. 440 MU on 18th Oct 2017 %Growth w.r.t. last year on Max energy – 6.33% Avg. 401 MU in October 2017 %Growth w.r.t. last year on Avg. energy – 6.93% New Element Generating Units-97 MW

Transmission Lines-64 CKM

Open Access STOA transactions approved -350 nos.

Energy Approved-854.89 MUs

1. Achievements during the month

a. New generating units synchronized:

- 1) Tashiding Unit I & II (2 X 48.5 MW) (Shiga Energy, Sikkim IPP) has been declared under COD at 0:00 hrs of 18/10/17.
- b. New transmission elements charged:
 - 1) 220 KV New Melli-Tashiding ckt (SIKKIM) charged for the first time at 17:34 hrs of 12/10/17.
 - 2) 500MVA ICT-II at Maithon (old 315MVA Replacement) charged for the first time at 18:42 hrs of 13/10/17.
 - 3) 132kV Motihari-Raxual-I & II Charged for first time at 12:31 hrs of 20/10/17 and at 12:44 hrs of 18/10/17 respectively.
 - 4) 220kV Tashiding-Rangpo (SIKKIM) charged for first time at 18:22 hrs of 30/10/17.



So Far Highest Demand							
Constitute	ute Demand (in MW)		Date		Time	Dmd met on 07 th Nov'17(max dmd met day)	
Bihar		4488	09-Oct-17	7	20:38	3541	
DVC		3333	10-Apr-10	5	20:57	3171	
Jharkhand		1262	10-Jun-17	7	19:54	969	
Odisha		4656	10-Oct-17	7	19:37	3762	
W. Bengal	8605		12-Apr-17		19:56	6938	
Sikkim	117		28-Oct-16		18:59	101	
ER	21116		18-Oct-17		19:43	18471	
		So Far H	lighest Energy	Consum	ption		
Consti	itute	Energy consumption (in MUs)			Date	Dmd met on 07 th Nov'17(max dmd met day)	
Biha	ar	90.3		26-Sep-17		62.2	
DV	Ċ	75		23-Mar-17		68.4	
Jharkhand		26		20-Apr-16		19.4	
Odisha		91.5		16-Sep-17		71.9	
West Bengal		181		27-Apr-16		119.2	
Sikk	im	2		24-Mar-17		1.6	
ER	R	451		26-Sep-17		355	





3D VIEW OF ER DEMAND PATTERN (APR-17 TO OCT-17)













ISGS (THERMAL) DC, SCHEDULE & ACTUAL GENERATION





11:45 9:45



Act MU	MAX	MIN	Min/Max	UI	schd MU
17.6	751	716	0.95	-0.26	17.88
Time:	7:15	4:45			



Act MU	MAX	MIN	Min/Max	UI	schd MU
0.0	0	0	0.00	0.00	0.00
Time:	0:15	0:15			



Act MU	MAX	MIN	Min/Max	UI	schd MU
33.1	1437	1249	0.87	0.33	32.77
Time:	4:15	19:30			



ISGS (THERMAL) DC, SCHEDULE & ACTUAL GENERATION

~-~

Tuesday







Act MU	MAX	MIN	STD	LF	schd MU
22.0	938	888	15	0.97	21.92
Time:	20:15	5:45			

Act MU	MAX	MIN	STD	LF	schd MU
18.3	962	494	145	0.79	17.84
Time:	10:15	11:15			





1:30

21:45

Time:

Monthly Net Export (In MU) from Eastern Region to Other Regions





Voltage Performance



₹

Jamshedpur_PG Date 1 November 2017 to 28 November

SCROLL



Annexure-A3.1

State Hydro Generators Performance





Unit No	Date of Outage	Reason
U - 5	25.10.2016	R & M Work
U - 6	16.10.2015	R & M Work








Unit No	Date of Outage	Reason
U - 5	21.03.2017	Hoist Gate Problem
U - 1	25.08.2017	Stator problem









UPPER KOLAB (80*4=320 MW)

PPSP GEN / MOT (225*4=1000 MW)









Annexure-A3.2

Teesta – III & Teesta – V Dispatch Pattern during lean hydro inflow



	TEESTA -III	TEESTA - V
OWNER	Teesta Urja Limited	NHPC
CAPACITY	6*200 = 1200 MW	3*170= 510 MW
TURBINE USED	PELTON High Head Low Discharge	FRANSIS Medium Head High Discharge
FRL/MDDL	1585/1565 MTR	579/568 MTR
LIVE STORAGE	Height = 20 Mtr Volume = 3.33 MCM Energy Content = 6.34 mu 5 Hr full gen. of 1200 MW	Height = 11 Mtr Volume = 5.4 MCM Energy Content = 2.62 mu 5 Hr full generation of 510 MW
WATER Required for 1 Mu Generation	0.525 MCM	2.056 MCM
• MCM = Million Cubic M	leter	

• 1 mu Generation at Teesta – III contribute .254 mu generation at Teesta - V



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:

Annexure-B6

Organisation

Station name

Annex-I (1 of 2)

Unit wise yearly generation Program for the year 2018-19

Contact Deta	ils		omail	Phone no.	Fax. no.
Sr. no	Name	Designation	email	Thome no.	
1					
1					

2. <u>Units exi</u> Unit No.	Capacity	D3.2017 Date of commissioni ng	Program for 2017- 18	Total Anticipated	Anticipated Gen for 2017-	Reason for low generation (if any)	Anticipated	9 generation detai Anticipated Generation (MU)	ils (MU) Reason for variation from Maximum Capability	Remarks	

2018-19 generation details (MU) Unit No. Capacity (MW) Date of commissioni ng 2017-18 generation details (MU) Reason for low Anticipated Anticipated Anticipated Reason variation 18 Gen for Sept 18 (MU) 18 (MU) 18 (MU) any) Generation (MU) Capability (MU) Capability (MU)	rom m
---	----------

4. Units likely to be	commisioned of	Juring 2018-	19	-
4. Units likely to be		Eupoctod	Generation	

4. Units like Unit No.	ely to be con Capacity	Experies	Expected	Generation 19 (MU)	Remarks	
	(MW)	date of		19 (100)		
		commissioni				
		ng				
						1
					evention in a sen	arate Sheet keeping the similar format.
Note: Plea	se furnish t	he month-wis	e break-up	o of yearly ge	neration in a sep] arate Sheet keeping the similar format.

5. Loss of Generation due to Grid Constraints/ Low schedules /fuel related issues during 2017-18

Transmission Constraints/ power evacuation problems/ low schedule/high fuel o

S No.	Details of the	Loss so far (Apr'17- Aug'17)	during 2017-18		
	Constraint		Anticipated Period of constraint	Anticipated loss of generation (MU)	

6. PPA details

N.

**

Capacity		With DISCON	٨	With State Trading Cos.		With PTC / other trading cos.				Untied		
	State of Discom	Quantum (MW)	and the second second	Quantum (MW)	b/b PPA with Discom (name of Discom)	quantum of b/b PPA in MW	Duration of b/b PPA (Years)	Quantum (MW)	b/b PPA with Discom (name of Discom)		Duration of b/b PPA (Years)	(MW)

7(a)Coal Linkage for coal based plants

Unit No Domes linkag (MT		PLF from this coal linkage during the year (%)
--------------------------------	--	---

7(b)Gas availibility for gas based stations

Varoius	Figures in	PLF from this
sources	MMSCMD	gas availibility during the year (%)

8. Cost of Generation:

Unit No	Cost of	Rate of Sale		
	Gen.	of Power		
	(Paise/kw h)	(Paise/kwh)		

Annex-I (2 of 2)

Planned maintenance Schedules including R&M activities

Station name	Unit No.	Capacity (MW)	R&M Schedule			
			From date	To date		

A) R&M of Units likely to be completed during 2017-18 & 2018-19

B) Annual Overhaul/ Boiler overhaul

Station name	Unit No.	Capacity (MW)	AOH Sc	hedule
			From date	To date

C) Capital Overhaul

Station name	Unit No.	Capacity (MW)	COH Sc	hedule
			From date	To date

D) Other maintenance if not included above such as PG tests (new units) and Boiler inspection

Station name	Unit No.	Capacity (MW)	Sche	dule	Reason
			From date	To date	

Annexure-B6.A

Generation Target 2018-19

Region	State	SECTOR	Fuel	Name of Utiity	NAME OF THE STATION	Monitored Capacity as on 31.07.2017 MW
ER	BIHAR	CENTRAL	COAL	BRBCL	NABI NAGAR TPP	500
ER	BIHAR	CENTRAL	COAL	K.B.U.N.L	MUZAFFARPUR TPS	610
ER	BIHAR	CENTRAL	COAL	NPGCPL	NEW NABI NAGAR TPP	0
ER	BIHAR	STATE	COAL	BSEB	BARAUNI TPS	210
ER	JHARKHAND	CENTRAL	COAL	PVUNL	PATRATU TPS	455
ER	JHARKHAND	PVT	COAL	ADHUNIK	MAHADEV PRASAD STPP	540
ER	ORISSA	PVT	COAL	IBPIL	UTKAL TPP(IND BARATH)	350
ER	ORISSA	PVT	COAL	ICCL	ICCL (IMFA) IMP	0
ER	ORISSA	PVT	COAL	JITPL	DERANG TPP	1200
ER	ORISSA	PVT	COAL	NALCO	NALCO IMP	0
ER	ORISSA	PVT	COAL	SEL	STERLITE TPP	600
ER	WEST BENGAL	PVT	COAL	IEL	INDIA POWER TPP (HALDIA)	150
ER	ANDAMAN NICOBAR	STATE	DIESEL	A&N ADM	AND. NICOBAR DG	40.05
ER	WEST BENGAL	STATE	HIGH SPEED DIESEL	WBPDC	KASBA GT (Liq.)	40

Bihar

Priority	Feeders/ICTs	Point of Disconnection
1	400/220 kV 315 MVA ICT at Biharsariff	400 kV Biharsariff PG
2	132 kV Arrah (PG)- Arrah (BSPHCL)	132 kV Arrah PG
3	132 kV Purnea(PG)-Purnea(BSPHCL)	132 kV Purnea PG

Jharkhand

Priority	Feeders/ICTs	Point of Disconnection
1	One 400/220 kV 315 MVA ICT Jamsedpur	400 kV Jamsedpur
2	220 kV Ranchi(PG)-Chandil(JUVNL)	220 kV Ranchi-PG

DVC

Priority	Feeders/ICTs	Point of Disconnection
1	220 kV Maithon (PG)-Kalyaneswari	220 kV Maithon-PG
2	220 kV Parulia (PG)-Parulia (DVC)	220 kV Parulia PG
3	220 kV Maithon (PG)-Dhanbad (DVC)	220 kV Maithon-PG

Odisha

Priority	Feeders/ICTs	Point of Disconnection
1	220 kV Rengali(PG)-Rengali(OPTCL)	220 kV Rengali-PG
2	220/132 kV Baripada 160 MVA ICT	220 kV Baripada-PG
3	220 kV Baripada(PG)-Balsore (Odisha)	220 kV Baripada-PG

West Bengal

Priority	Feeders/ICTs	Point of Disconnection
1	220 kV Dalkohla (PG)-Dalkohla(WB)	220 kV Dalkohla-PG
2	132 kV Malda (PG)-Malda(WB)	132 kV Malda-PG
3	220 kV Subhasgram(PG)- Subhashgram(WB)	220 kV Subhasgram PG

Overview of real time telemetry of Eastern region for month November, 2017 Annexure-B20



ERLDC, POSOCO







<u>Concerns</u>

-	Complete C	outage	3	Part	ial o	utage	•			Avai	labili	ty		1.
\sim	(< 10% :	avl)	\bigcirc	(10%	to 9()% a v	/l)			>	<mark>90</mark> %			(F
1		Mon	thly	01-Sep	:-Sep :-Sep	-Sep -Sep	-Sep -Sep	08-Sep	09-5ep 10-5ep 12-5ep	13-Sep	15-Sep 16-Sep	-Sep -Sep	ē	0
lo s	Station Name	aver	age	01-	02- 03-	04- 05-	-20 -20	-80	-90 -01 -01	13- 13-	15- 16-	17- 18-	19-	2
11	Rutypers	0.01 <mark>0.9</mark> %		00	00	00(000	00	000		00	000		3
222	Segabi (Q Ahj	0.0%000%		00	00	000)00	00	000)00	00	000	0	4
4	Nalitabati Delitibala	0.01 0.0%		_00								000	-	ν
5	Pulnia 220	0.0% 0.0% 0.0%		00										a
6	Rengali Huima 200	9.3%												d
7,	Feesta NHPC	51.4 <mark>25.8</mark> %	•											
8	Isun giapxil	66.2 89.7 %	•		00	000		00	000		00	000		L
9 ;	lidlalaght	72.3 6401 %		00		00(000)00	00	000	0	6
1 9	Bili Ring anj	81.191248			00	00(000			000		
1 1	Gamptokai	82.14154%		00								000		
12 12	Binaguri	85.1 35.9% 41.4% 89.8% 3%						_				000		
13	Keonihar Esinany arif 4001	41.5%											-	
14	Subashgram	95.1 <mark>41.6%</mark>	•								_			ſ
15	Ranchi 400	95.1 61 36%	•											Ĩ
16	Ralabiji 185	97.4 91365 %	•									000	_ /	4
17	Rimetri	98.746.7%												

1. VOIP for Durgapur, Jeypore, Indravati (PG), Purnea 220, Dalkhola and Ranchi are out since long.

2. Malda out since 22-10-2017

3. Kishanganj out since 19-10-2017

4. At present for almost 8 nos of station VOIP is not working, which is quite alarming for real time system operator.

Its our humble request to all concerned utility to provide reliable data and Voice communication to ERLDC, to ensure integrated operation of the power system in the Eastern Region.

Note: Above statistics are based on result of 5 minutes interval ping response of VOIP (Voice Over internet Protocol) handset.

NEBOSUGURA 99.6% Nanaht 99.6%

algaon NTPC 98.9

ERLDC, POSOCO



- <u>Shifting of Farakka PMU and Jamshedpur PMU to</u>
 <u>ULDC wideband (Alkatel to Corriant)</u>
- <u>Unit side data of Teesta V made available to ERLDC.</u>



- Long outage of New Farakka SCADA data.
- Long outage of VOIP.
- <u>VOIP for JITPL</u> yet to be provided, Commissioning PLCC for data communication via 765 kV Angul Station.
- <u>No redundancy</u> or stand by in communication channel
- Non availability of Unit side data \rightarrow
 - Farakka STPS (Unit #6).
 - IBEUL (Unit #1 and Unit #2).
 - Non availability of Unit side data is affecting the FRC and MVAr response calculation. We are again requesting concerned utility to make these real time data available to real time operator at the earliest.

		OW	VNERSHI	P DETAILS				<u>A</u> 1	nnexure-B24	
SL. NO	TIE-LINE	LINE OWNED BY		FR	OM END		ΤΟ Ε	ND		
			Bay equip Ownership	Responsibility of maintaining bay eqp.	Responsibility of ensuring Real Time data	Responsibility of sending RI/DR/EL	Bay equip Ownership	Responsibility of maintaining bay eqp.	Responsibility of ensuring Real Time data	Responsibility of sending RI/DR/EL
			A) 765 KV	LINES						
1	GAYA-VARANASI	POWERGRID	POWERGRID(ER)				POWERGRID(NR)			
2	GAYA-BALIA	POWERGRID	POWERGRID(ER)				POWERGRID(NR)			
3	PUSAULI-FATEHPUR	POWERGRID	POWERGRID(ER)				POWERGRID(NR)			
4	RANCHI(NEW)-DHARAMJAYGARH	POWERGRID	POWERGRID(ER)				POWERGRID(WR)			
5	JHARSUGUDA-DHRAMJAYGARH	POWERGRID	POWERGRID(ER)				POWERGRID(WR)			
6	ANGUL-SRIKAKULAM	POWERGRID	POWERGRID(ER)				POWERGRID(SR)			
7	ANGUL-JHARSUGUDA	POWERGRID	POWERGRID				POWERGRID			

Г

			B) 400 KV	INES		
7	MUZZFARPUR-GOROKHPUR	POWERLINKS	POWERGRID(ER)		POWERGRID(NR)	
8	PATNA-BALIA	POWERGRID	POWERGRID(ER)		POWERGRID(NR)	
9	BIHARSHARIFF-BALIA	POWERGRID	POWERGRID(ER)		POWERGRID(NR)	
10	BIHARSHARIFF-VARANASI	POWERGRID	POWERGRID(ER)		POWERGRID(NR)	
	BARH-MOTIHARI	L(LILO)	POWERGRID(ER)		DMTCL	
	MOTIHARI-GOROKHPUR	L(LILO)	DMTCL		POWERGRID(NR)	
12	SASARAM(N) -SARNATH	POWERGRID	POWERGRID(ER)		POWERGRID(NR)	
14	SASARAM(N) -ALLAHABAD	POWERGRID	POWERGRID(ER)		POWERGRID(NR)	
15	BINAGURI-BONGAIGAON-I, II	POWERGRID	POWERGRID(ER)		POWERGRID(NER)	
16	AILPURDUAR-BONGAIGAON-I, II	PGCIL(LILO)	POWERGRID(ER)		POWERGRID(NER)	
20	TEESTA V-RANGPO	POWERGRID	NHPC		POWERGRID	
21	SEL-RAIGARH	POWERGRID & SEL	SEL		POWERGRID(WR)	
22	JHRASUGUDA-IBEUL	IBEUL	POWERGRID		IBEUL	
23	JHRASUGUDA-RAIGARH	IBEUL	POWERGRID(ER)		POWERGRID(WR)	
24	ROURKELA-RAIGARH	POWERGRID	POWERGRID(ER)		POWERGRID(WR)	
25	ROURKELA-SEL	POWERGRID & SEL	POWERGRID		SEL	
26	RANCHI -SIPAT	POWERGRID	POWERGRID(ER)		POWERGRID(WR)	
28	FARAKKA-BEHRAMPUR	POWERGRID	NTPC		POWERGRID	
29	FARAKKA-SAGARDIGHI	POWERGRID	NTPC		WBPDCL	
30	FARAKKA - MALDA	POWERGRID	NTPC		POWERGRID	
31	FARAKKA - PARULIA	POWERGRID	NTPC		POWERGRID	
32	KAHALGAON -BANKA	POWERGRID	NTPC		POWERGRID	
34	SAGARDIGHI-BEHRAMPUR	POWERGRID	WBPDCL		POWERGRID	
35	SAGARDIGHI-SUBHASGRAM	POWERGRID	WBPDCL		POWERGRID	
36	SAGARDIGHI-PARULIA	WBSETCL	WBPDCL		POWERGRID(ER)	
38	JEERAT-SUBHASGRAM	POWERGRID	WBSETCL		POWERGRID	
39	SUBHASGRAM(PG)-HALDIA	HEL	POWERGRID		HEL	
40	PARULIA-BIDHANAGAR	WBSETCL	POWERGRID		WBSETCL	
41	KHARAGPUR-BARIPADA	WBSETCL & OPTCL	WBSETCL		POWERGRID(ER)	
45	DSTPS - JAMSHEDPUR	POWERGRID	DVC		POWERGRID	
46	KODERMA-BIHARSARIFF	POWERGRID	DVC		POWERGRID	
51	RAGUNATHPUR-MAITHON	POWERGRID	DVC		POWERGRID	
52	JAMSEDPUR-AHUNIK	APNRL	POWERGRID		APNRL	
53	JAMSHEDPUR-TISCO	POWERGRID	DVC		POWERGRID	
55	JEYPORE-GAZUWAKA	POWERGRID	POWERGRID(ER)		POWERGRID(SR)	

	NDRAVATI-INDRAVATI	OPTCL	POWERGRID(ER)		OPTCL		
	STPP-MERAMUNDALI	POWERGRID	NTPC		OPTCL		
	ARIPADA-NEW DUBURI	POWERGRID	POWERGRID(ER)		OPTCL		
	ENDHASAL-NEW DUBURI	OPTCL	POWERGRID(ER)		OPTCL		
	STPP - RENGALI	POWERGRID	NTPC		POWERGRID		
	HARAGPUR-CHAIBASA	PKTCL	WBSETCL		POWERGRID		
66 MI	ENDHASAL-PANDIABILI	POWERGRID	OPTCL		POWERGRID		
67 BA	ARIPADA – PANDIABILI	POWERGRID	WBSETCL		POWERGRID		
NE	EW RANCHI-NEW PPSP	PKTCL	POWERGRID		WBSETCL		
71 FA	ARAKKA-GOKARNO	POWERGRID	NTPC		WBSETCL		
72 D	DIKCHU-TEESTA-III	SKPPL+TPTL	DIKCHU		TEESTA-III		
73 R.	ANGPO-TEESTA-III	POWERGRID+TPTL	POWERGRID		TEESTA-III		
2 BA	ANKA-BIHARSARIFF	POWERGRID	POWERGRID		POWERGRID		
3 L.	AKHISARAI-BIHARSARIFF	POWERGRID	POWERGRID		POWERGRID		
4 K.A	AHALGAON -LAKHISARAI	POWERGRID	NTPC		POWERGRID		
	IHARSHARIFF-PURNEA	ENICL	POWERGRID		POWERGRID		
	IAITHON-GAYA	POWERGRID	POWERGRID		POWERGRID		
	AHALGAON -BARH	POWERGRID	NTPC		NTPC	1	
-	ARH -PATNA	POWERGRID	NTPC		POWERGRID	1	1
	ATNA- KISHANGANJ	POWERGRID	POWERGRID		POWERGRID		
	URNEA - BINAGURI I & II	POWERGRID	POWERGRID		POWERGRID		
	URNEA-KISHANGANJ	POWERGRID	POWERGRID		POWERGRID		
-	INAGURI-KISHANGANJ	POWERGRID	POWERGRID		POWERGRID		
	URNEA - MUZAFFARPUR	POWERLINKS	POWERGRID		POWERGRID		
	URNEA - MUZAFFARPUR IHARSHARIFF-MUZAFFARPUR	POWERLINKS	POWERGRID		POWERGRID		
	IHARSHARIFF-MUZAFFARFUR IHARSHARIFF- PUSAULI	POWERGRID	POWERGRID		POWERGRID		
	ARAKKA - KAHALGAON I & II	POWERGRID	NTPC		NTPC		
	ARAKKA-KAHALGAON III & IV	POWERGRID	NTPC		NTPC		
	OKARO-KODERMA	POWERGRID	DVC		DVC		
	IALDA - PURNEA	POWERGRID	POWERGRID		POWERGRID		
	IERAMUNDALI - MENDASAL	OPTCL	OPTCL		OPTCL		
	ENGALI-KEONJHAR	OPTCL	POWERGRID		OPTCL		
	EONJHAR- BARIPADA	OPTCL	POWERGRID		POWERGRID		
	EYPORE - INDRAVATI	POWERGRID	POWERGRID		POWERGRID		
	NDRAVATI - RENGALI	POWERGRID	POWERGRID		POWERGRID		
	STPP - ROURKELA	POWERGRID	NTPC		POWERGRID		
	OURKELA- JHARSIGUDA	POWERGRID	POWERGRID		POWERGRID		
	AMSHEDPUR - CHAIBASA	POWERGRID	POWERGRID		POWERGRID		
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	HAIBASA- ROURKELA	POWERGRID	POWERGRID		POWERGRID	<u> </u>	
	TPS - CHANDITALA	WBSETCL	WBPDCL		WBSETCL	<u> </u>	
	HANDITALA - JEERAT	WBSETCL	WBSETCL		WBSETCL	l	
	AKRESWAR - JEERAT	WBSETCL	WBPDCL		WBSETCL	l	
	AKRESWAR - ARAMBAGH	WBSETCL	WBPDCL		WBSETCL	<u> </u>	
	EW PPSP - ARAMBAGH	WBSETCL	WBSETCL		WBSETCL		
	EW PPSP - PPSP	WBSETCL	WBSETCL		WBSEDCL		
	PSP - BIDHANAGAR	WBSEDCL	WBPDCL		WBSETCL	ļ	
	TPS - ARAMBAGH	WBSETCL	WBPDCL		WBSETCL		
	TPS-KHARGPUR	WBSETCL	WBPDCL		WBSETCL		
	TPS-KHARGPUR	WBSETCL	WBPDCL		WBSETCL		
37 PA	ARULIA - JAMSHEDPUR	POWERGRID	POWERGRID		POWERGRID		
38 M.	IAITHON - JAMSHEDPUR	POWERGRID	POWERGRID		POWERGRID		
	IAITHON - RANCHI	POWERGRID	POWERGRID		POWERGRID		
	STPS-RAGHUNATHPUR I & II	DVC	DVC		DVC		
	AMSHEDPUR-BARIPADA	POWERGRID	POWERGRID		POWERGRID		
	ANCHI-RANCHI NEW	POWERGRID	POWERGRID		POWERGRID		
	ANCHI-ROURKELA-I&II	POWERGRID	POWERGRID		POWERGRID	ļ	
44 BI	INAGURI-RANGPO	POWERGRID	POWERGRID		POWERGRID		

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45	NEW RANCHI-CHANDWA	POWERGRID	POWERGRID		POWERGRID	
	GAYA- CHANDWA	POWERGRID	POWERGRID		POWERGRID	
-	AILPURDUAR-BINAGURI-I,II	PGCIL(LILO)	POWERGRID(ER)		POWERGRID(ER)	
48	MUZAFFARPUR-DARBHANGA	DMTCL	POWERGRID(ER)		DMTCL	
49	SEL- MEERAMANDALI	POWERLINKS	SEL		OPTCL	
50	BARIPADA-PANDIABILI	POWERGRID	POWERGRID		POWERGRID	
51	MEERAMUNDALI- NEW DUBURI	POWERGRID	OPTCL		POWERGRID	
			C) 220 KV	LINES		
74	PATNA-SIPARA	BSPHCL	POWEGRID		BSPHCL	
76	PUSUALI-SAHUPURI	BSPHCL & UPPCL	POWERGRID		UPPCL	
78	PATNA-KHAGUAL	BSPHCL	POWERGRID		BSPHCL	
80	NEW SASARAM- ARRAH	POWERGRID	BSPHCL		POWERGRID	
81	BODHGAYA-GAYA(PG)	BSPHCL & PG	BSPHCL		POWERGRID	
82	DEHRI-GAYA(PG)	BSPHCL & PG	BSPHCL		POWERGRID	
83	MUZZFARPUR-KANTI	POWERLINKS	POWERGRID		BSPHCL	
84	MUZZAFFARPUR-HAZIPUR-I & II	BSPTCL	POWERGRID		BSPTCL	
	BALIMELA-U.SILLERU	APTRANSCO	OPTCL		APTRASCO	
88	JINDAL-JAMSHEDPUR	OPTCL & DVC	OPTCL		DVC	
89	JODA-RAMCHANDRAPUR	OPTCL & JUSNL	OPTCL		JUSNL	
90	BUDHIPADAR-KORBA II & III	OPTCL & CSEB	OPTCL		CHATTISGARH	
91	BUDHIPADAR-RAIGARH I	POWERGRID	OPTCL		CHATTISGARH	
92	TSTPP-MERAMUNDALI	OPTCL	NTPC		OPTCL	
93	TSTPP-RENGALI HPS	OPTCL	NTPC		OPTCL	
94	BISRA(PG)-TARKERA(OPTCL)	OPTCL	POWERGRID		OPTCL	
95	JEYPORE(PG)-JAYNAGAR(OPTCL)	OPTCL	POWERGRID		OPTCL	
-	TSTPP-TALCHER	OPTCL	NTPC		OPTCL	
97	FARAKKA-LALMATIA	ECL	NTPC		NTPC	
	RENGALI-RENGALI	OPTCL	POWERGRID		OPTCL	
99	BARIPADA-BALASORE	OPTCL	POWERGRID		OPTCL	
-	MAITHON(PG)-K'SWARI(DVC)	DVC	POWERGRID		DVC	
102	CHANDIL-SANTALDIH	WBSETCL & JUSNL	JUSNL		WBSETCL	
103	RANCHI-HATIA	JUSNL	POWERGRID		JUSNL	
	TENUGHAT-BIHARSHARIF	BSPHCL & JUSNL	JUSNL		BSPHCL	
	JAMSHEDPUR-RAMCHANDRAPUR	-POWERGRID	POWERGRID		JUSNL	
	MAITHON(PG)-DHANBAD(DVC)	DVC	POWERGRID		DVC	
	PARULIA(PG)-PARULIA(DVC)	DVC	POWERGRID		DVC	
	WARIA-BIDHANNAGAR	DVC & WBSETCL	DVC		WBSETCL	
	SUBH'GRM(PG) - NEWTOWN	WBSETCL	POWERGRID		WBSETCL	
	SUBH'GRM(PG) - SUBH'GRM (WB)	WBSETCL	POWERGRID		WBSETCL	
	SUBH'GRM(PG) - EMSS(CESC)	CESC	POWERGRID		CESC	
	SUBH'GRM(PG) - BANTALA	WBSETCL	POWERGRID		WBSETCL	
	BIRPARA- CHUKHA	POWERGRID	POWERGRID		POWERGRID	
	BIRPARA-MALBASE	POWERGRID	POWERGRID		POWERGRID	
/	ALIPURDUAR-SALAKATI	POWERGRID	POWERGRID(ER)		POWERGRID POWERGRID(NER)	
	NEW MELLI- JLHEP	DANS	POWERGRID		DANS	
	DARBHANGA-MOTIPUR	BSPTCL	DMTCL		BSPTCL	
	DARBHANGA-SAMASTIPUR(UJIYARPUR)	BSPTCL	DMTCL		BSPTCL	
	BOLANGIR-KATAPALLI	OPTCL	POWERGRID		OPTCL	
	BOLANGIR-SADHEPALLI	OPTCL	POWERGRID		OPTCL	
	PANDIABILI-ATRI	OPTCL	POWERGRID		OPTCL	
	PANDIABILI-SAMANGARA	OPTCL	POWERGRID		OPTCL	
	BIHARSHARIFF-FATUAH	BSPHCL	BSPHCL		BSPHCL	
	BIHARSHARIFF-BODHAGYA	BSPHCL	BSPHCL		BSPHCL	
	BIHARSHARIFF-BEGUSARAI MTPS-BEGUSARAI	BSPHCL BSPHCL	BSPHCL BSPHCL		BSPHCL BSPHCL	
	MTPS-BEGUSARAI MTPS-DARBHANGA	BSPHCL BSPHCL	BSPHCL		BSPHCL BSPHCL	
	MTPS-GOPALGANJ	BSPHCL	BSPHCL		BSPHCL	
51		DOLICE	DOLICE		DOLINCE	

No. Mark Valida D. Dyr. D. Dyr. D. Dyr. D. Dyr. D. Dyr. 0. Wark Valida D. Dyr. D. Dyr. D. Dyr. D. Dyr. D. Dyr. 0. Wark Valida Dyr. Dyr. Dyr. Dyr. Dyr. Dyr. 0. Wark Valida Dyr. Dyr. Dyr. Dyr. Dyr. Dyr. 0. Wark Valida Dyr. Dyr. Dyr. Dyr. Dyr. Dyr. 0. Wark Valida Dyr. Dyr. Dyr. Dyr. Dyr. Dyr. 0. Wark Valida Dyr. Dyr. Dyr. Dyr. Dyr. Dyr. 0. Wark Valida Dyr. Dyr. Dyr. Dyr. Dyr. Dyr. 0. Wark Valida Dyr. Dyr. Dyr. Dyr. Dyr. Dyr. Dyr. 0. Wark Valida Dyr. Dyr.<	58	SASARAM-ARRAH	POWERGRID	POWERGRID	POWERGRID	г	
61 WARA MEAR PVC PVC PVC PVC 61 VIRAS MERNAD PVC PVC PVC PVC 71 PVC PVC PVC PVC PVC 72 VIRAS MERNAD PVC PVC PVC 73 MERNAT MERNAD PVC PVC PVC 74 MERNAT MERNAD PVC PVC <							
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44 DNNAG-GREDIP DVC DVC DVC DVC 55 SAMAD-SAUSTERDR DVC DVC DVC DVC 65 SAMAD-SAUSTERDR DVC DVC DVC DVC 7 SASAD-SUBJACSALAWDD DVC DVC DVC DVC 8 SAMAD-SAUSTERDR DVC DVC DVC DVC 8 SAMAD-SAUSTERDR DVC DVC DVC DVC 9 SAMAD-SAUSTERDR TSK DVC DVC DVC 9 SAMAD-SAUSTERDR TSK DVC DVC DVC 9 SAMAD-SAUSTERDR TSK DVC DVC DVC 9 SAMAD-SAUSTERDR DVC DVC DVC DVC 9 SAMAD-SAUSTERDR DVC DVC DVC DVC							
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78 PATATL-HATA JISN.	_						
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84 KATAPALL-BUDHPADAR OPTCL OPTCL OPTCL OPTCL OPTCL OPTCL Image: Comparison of the comp	82	MERAMUNDALI - BIDANASI	OPTCL	OPTCL	OPTCL		
84 KATAPALL-BUDHPADAR OPTCL OPTCL OPTCL OPTCL OPTCL OPTCL Image: Comparison of the comp	83	MERAMUNDALI - DUBURI(OLD)	OPTCL	OPTCL	OPTCL		
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94 TALCHER-MERAMUNDALI OPTCL NTPC OPTCL OPTCL OPTCL 95 MERAMUNDALI - HANNAGAR OPTCL OPTCL OPTCL OPTCL 96 MENDHASAL - BHANNAGAR OPTCL OPTCL OPTCL OPTCL 97 MENDHASAL - BHANNAGAR OPTCL OPTCL OPTCL OPTCL 97 MENDHASAL - BHANNAGAR OPTCL OPTCL OPTCL OPTCL 98 NAYAGARI - BHANNAGAR OPTCL OPTCL OPTCL OPTCL 90 THERUVALLI - LAXIPPUR OPTCL OPTCL OPTCL OPTCL 101 THERUVALLI - LAXIPPUR OPTCL OPTCL OPTCL OPTCL 101 THERUVALLI - LAXIPPUR OPTCL OPTCL OPTCL Imteruscience 102 MENDHASAL - CHANDAKA OPTCL OPTCL OPTCL Imteruscience 103 MENDHASAL - CHANDAKA OPTCL OPTCL OPTCL Imteruscience 104 JAYANGARA - LAXIPUR OPTCL OPTCL Imteruscience Imteruscience 105 UHEPT-THERIVALI OPTCL OPTCL Imteruscience Imteruscience 105 UHEPT-THERIVALI WBSETCL WBPCL Imteruscience							
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96 MENDHASAL.BHANNAGAR OPTCL							
97 MENDHASAL-INAYAGARH OPTCL OPTCL OPTCL OPTCL 98 NAYAGARH-BHANNAGAR OPTCL OPTCL OPTCL OPTCL 97 THERUVALLI-BHANNAGAR OPTCL OPTCL OPTCL OPTCL 100 THERUVALLI-AXMIPUR OPTCL OPTCL OPTCL OPTCL 101 THERUVALLI-AXMIPUR OPTCL OPTCL OPTCL OPTCL 101 THERUVALLI-NARENDRAPUR OPTCL OPTCL OPTCL OPTCL 102 MENDHASAL-NARENDRAPUR OPTCL OPTCL OPTCL OPTCL 103 MENDHASAL-CHANDAKA OPTCL OPTCL OPTCL OPTCL 104 JAYANAGAR + LAXMIPUR OPTCL OPTCL OPTCL OPTCL 105 UHEPTHERUVALI OPTCL OPTCL OPTCL OPTCL 105 UHEPTHERUVALI OPTCL OPTCL OPTCL OPTCL 106 KTPS-HOWRAH WBSETCL WBPCL WBSETCL OPTCL 107 BISHNUPUR-SANTALDH WBSETCL WBSETCL WBSETCL OPTCL 108 SANTALDH-BIDHANAGR WBSETCL WBSETCL WBSETCL OPTCL 108 BUHANNAGAR-BARKESWAR WBSETCL <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
98 NAYAGARH - BHANINAGAR OPTCL OPTCL OPTCL OPTCL 99 THERUVALLI - LAXMIPUR OPTCL OPTCL OPTCL OPTCL 100 THERUVALLI - LAXMIPUR OPTCL OPTCL OPTCL OPTCL 101 THERUVALLI - LAXMIPUR OPTCL OPTCL OPTCL OPTCL 101 THERUVALLI - NARENDRAPUR OPTCL OPTCL OPTCL OPTCL 102 MENDHASAL - NARENDRAPUR OPTCL OPTCL OPTCL OPTCL 103 MENDHASAL - NARENDRAPUR OPTCL OPTCL OPTCL Imterview 104 JAYANAGAR - LAXMIPUR OPTCL OPTCL OPTCL Imterview 105 UHEP-THERUVALI OPTCL OPTCL Imterview Imterview 105 UHEP-THERUVALI OPTCL OHTC Imterview Imterview 106 KTPS-HOWRAH WBSETCL WBPCL Imterview Imterview 106 KTPS-HOWRAH WBSETCL WBSETCL Imterview Imterview 107 BIDHANNAGAR-DPL WBSETCL WBSETCL Imterview Imterview 108 BIDHANNAGAR-DPL WBSETCL WBSETCL Imterview Imterview							
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100 THERUVALLI - LAXMIPUR OPTCL OPTCL OPTCL OPTCL Image: Constraint of the cons							
101 THERUVALLI - NARENDRAPUR OPTCL OPTCL OPTCL OPTCL 102 MENDHASAL - NARENDRAPUR OPTCL OPTCL OPTCL OPTCL 103 MENDHASAL - CHANDAKA OPTCL OPTCL OPTCL OPTCL OPTCL 104 JAYANAGAR - LAXMIPUR OPTCL OPTCL OPTCL OPTCL OPTCL 105 UHEP.THERIVALI OPTCL OHC OPTCL OPTCL OPTCL 105 UHEP.THERIVALI OPTCL OHC WBNDCL WBSETCL WBNDCL 106 KIPS-HOWRAH WBSETCL WBSETCL WBSETCL WBSETCL WBSETCL WBSETCL Image: Comparison of the compa							
102MENDHASAL-NARENDRAPUROPTCL	-						
103MENDHASAL - CHANDAKAOPTCLO	_						
104JAYANAGAR - LAXMIPUROPTCLOPTCLOPTCLOPTCL105UIHEP-THERUVALIOPTCLOPTCLOPTCLOPTCL106KTPS-HOWRAHWBSETCLWBPDCLWBSETCLWBSETCL107BISHNUPUR-SANTALDIHWBSETCLWBSETCLWBSETCLWBSETCL108SANTALDIH-BIDHANNAGRWBSETCLWBSETCLWBSETCLWBSETCL108BIDHANNAGAR-DPLWBSETCLWBSETCLWBSETCLOPTCL108BIDHANNAGAR-BAKRESWARWBSETCLWBSETCLWBSETCLOPTCL110BIDHANNAGAR-BAKRESWARWBSETCLWBSETCLWBSETCLOPTCL111SATGACHIA-BAKRESWARWBSETCLWBSETCLWBSETCLOPTCL112KHARAGPUR-MIDNAPOREWBSETCLWBSETCLWBSETCLOPTCL113ARAMBAGH-MIDNAPOREWBSETCLWBSETCLWBSETCLOPTCL114ARAMBAGH-NBISHNUPURWBSETCLWBSETCLWBSETCLOPTCL115ARAMBAGH-NBISHNAWBSETCLWBSETCLWBSETCLOPTCL116ARAMBAGH-NBISHRAWBSETCLWBSETCLWBSETCLOPTCL117JEERAT-NEWTOWNWBSETCLWBSETCLWBSETCLOPTCL118JEERAT-SATGACHIAWBSETCLWBSETCLWBSETCLIPTCL119SATGACHIAAWBSETCLWBPDCLWBSETCLIPTCL119SATGACHIAANAGARWBSETCLWBPDCLWBSETCLIPTCL120BARESWAR-ASADAIPURWBSETCLWBSETCLIPTCL <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
105UIHEP-THERUVALIOPTCLOHPCOPTCLOPTCLOPTCLImage: Constraint of the second sec							
106KTPS-HOWRAHWBSETCLWBPDCLWBSETCL <th< td=""><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td>]</td></th<>						<u> </u>]
107BISHNUPUR-SANTALDIHWBSETCLWBSETC							
108SANTALDIH-BIDHANNAGRWBSETCLWBDPCLWBSETC							
109BIDHANNAGAR-DPLWBSETCLWBSETCLWBSETCLDPLDPL110BIDHANNAGAR-BAKRESWARWBSETCLWBSETCLWBSETCLWBDCLDPL111SATGACHIA-BAKRESWARWBSETCLWBSETCLWBSETCLWBDCLDPL111SATGACHIA-BAKRESWARWBSETCLWBSETCLWBSETCLDPLDPL112KHARAGPUR-MIDNAPORE I&IIWBSETCLWBSETCLWBSETCLDPLDPL113ARAMBAGH-MIDNAPOREWBSETCLWBSETCLWBSETCLDPLDPL114ARAMBAGH-NDISHNUPURWBSETCLWBSETCLWBSETCLDPLDPL115ARAMBAGH-DOMJURWBSETCLWBSETCLWBSETCLDPLDPL116ARAMBAGH-RISHRAWBSETCLWBSETCLWBSETCLDPLDPL117JEERAT-NEWTOWNWBSETCLWBSETCLWBSETCLDPLDPL118JEERAT-SATGACHIAWBSETCLWBPCLDPLDPLDPL119SATGACHIA-KISHNANAGARWBSETCLWBPCLDPLDPLDPL120BAKRESWAR-SADAIPURWBSETCLWBPCLDPLDPLDPL120BAKRESWAR-SADAIPURWBSETCLWBPCLDPLDPLDPL120BAKRESWAR-SADAIPURWBSETCLWBPCLDPLDPLDPL							
110BIDHANNAGAR-BAKRESWARWBSETCLWBSETCLWBSETCLWBSETCLWBSETCL111SATGACHIA-BAKRESWARWBSETCLWBSETCLWBSETCLWBSETCLWBSETCL112KHARAGPUR- MIDNAPORE I&IIWBSETCLWBSETCLWBSETCLWBSETCLWBSETCL113ARAMBAGH- MIDNAPOREWBSETCLWBSETCLWBSETCLWBSETCLWBSETCL114ARAMBAGH- NBISHNUPURWBSETCLWBSETCLWBSETCLWBSETCLWBSETCL115ARAMBAGH- RISHRAWBSETCLWBSETCLWBSETCLWBSETCLWBSETCL116ARAMBAGH- RISHRAWBSETCLWBSETCLWBSETCLWBSETCLWBSETCL117JEERAT-NEWTOWNWBSETCLWBPDCLWBSETCLWBSETCLWBSETCL118IEERAT-SATGACHIAWBSETCLWBPDCLWBSETCLWBSETCLImage: Constraint of the constraint o							
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112 KHARAGPUR-MIDNAPORE I&II WBSETCL W							
113 ARAMBAGH-MIDNAPORE WBSETCL						<u> </u>	
114 ARAMBAGH-N.BISHNUPUR WBSETCL WBSETCL WBSETCL 115 ARAMBAGH-DOMJUR WBSETCL WBSETCL WBSETCL 116 ARAMBAGH-RISHRA WBSETCL WBPCL WBSETCL 117 JEERAT-NEWTOWN WBSETCL WBSETCL WBSETCL 118 JEERAT-SATGACHIA WBSETCL WBPCL WBPCL 119 SATGACHIA-KRISHNANAGAR WBSETCL WBPDCL WBSETCL 120 BAKRESWAR-SADAIPUR WBSETCL WBPDCL WBSETCL						<u> </u>	
115 ARAMBAGH- DOMJUR WBSETCL WBSETCL WBSETCL 116 ARAMBAGH- RISHRA WBSETCL WBPDCL WBSETCL WBSETCL 117 JEERAT-NEWTOWN WBSETCL WBSETCL WBSETCL WBSETCL 118 JEERAT-SATGACHIA WBSETCL WBPDCL WBSETCL WBSETCL 119 SATGACHIA-KRISHNANAGAR WBSETCL WBPDCL WBSETCL WBSETCL 120 BAKRESWAR-SADAIPUR WBSETCL WBPDCL WBSETCL WBSETCL						<u> </u>	
116 ARAMBAGH-RISHRA WBSETCL WBPDCL WBSETCL WBSETCL <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td>						<u> </u>	
117JEERAT-NEWTOWNWBSETCLWBSETCLWBSETCLWBSETCL118JEERAT-SATGACHIAWBSETCLWBPDCLCWBSETCLC119SATGACHIA-KRISHNANAGARWBSETCLWBPDCLCWBSETCLWBSETCL120BAKRESWAR-SADAIPURWBSETCLWBPDCLCWBSETCLWBSETCL							 1
118 JEERAT-SATGACHIA WBSETCL WBPDCL WBSETCL WBSETCL WBSETCL 119 SATGACHIA-KRISHNANAGAR WBSETCL WBPDCL WBSETCL WBSETCL 120 BAKRESWAR-SADAIPUR WBSETCL WBPDCL WBSETCL							
119 SATGACHIA-KRISHNANAGAR WBSETCL WBPDCL WBSETCL WBSETCL 120 BAKRESWAR-SADAIPUR WBSETCL WBPDCL WBSETCL WBSETCL							1
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120 JAAAPUR-GOKARNO WBSETCL WBPDCL WBPDCL WBSETCL							
	120	SADAIPUR-GOKARNO	WBSETCL	WBPDCL	WBSETCL		

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	GOKARNO-SAGARDIGHI	WBSETCL	WBSETCL		WBPDCL		
122		WBSETCL	WBSETCL		WBPDCL		
	SUBHASGRAM (WB)- LAKHIKANTPUR	WBSETCL	WBSETCL		WBSETCL		
	DALKHOLA-PURNEA	POWERGRID	WBSETCL		WBSETCL		
125	BIRPARA-BINAGURI	POWERGRID	POWERGRID		POWERGRID		-
107	BINAGURI-SILIGURI	POWERGRID	POWERGRID		POWERGRID		
	JEERAT-KASBA JEERAT- DHARAMPUR	WBSETCL WBSETCL	WBPDCL WBPDCL		WBSETCL WBSETCL		
	DHARAMPUR- RISHRA	WBSETCL	WBPDCL		WBSETCL		
120	SILIGURI-KISHANGANJ	POWERGRID	POWERGRID		POWERGRID		
129	DALKHOLA-KISHANGANJ	POWERGRID	POWERGRID		POWERGRID		
	DALKHOLA-MALDA	POWERGRID	POWERGRID		POWERGRID		
	RANGPOO- NEW MELLI	POWERGRID	POWERGRID		POWERGRID		
	ALIPURDUAR-BIRPARA		POWERGRID(ER)		POWERGRID(ER)		
			C) 132 KV	LINES		l	
		Cross Border Power					1
131	MUZZAFARPUR- DHALKEBAR	Trans. Ltd.	POWERGRID		NEPAL		
	BARHI - B'SHARIFF	BSPHCL & DVC	DVC		BSPHCL		
	BARHI-B SHARH	BSPHCL & DVC	DVC		BSPHCL		
133	DEOGHAR-SULTANGANJ	BSPTCL & JUSNL	JUSNL		BSPHCL		
	KAHALGAON-KAHALGAON	POWERGRID	BSPHCL		NTPC		+
	ARRAH-ARRAH	POWERGRID	BSPHCL		POWERGRID		
137	DUMRAON-ARRAH	POWERGRID	BSPHCL		POWERGRID		
	PURNEA(PG)-PURNEA(BS)	BSPHCL	BSPHCL		POWERGRID		
139	PURNEA(PG)-KISANGANJ	BSPHCL	BSPHCL		POWERGRID		
140	DEHRIPUSUALI	POWERGRID	BSPHCL		POWERGRID		
141	KARMANASAPUSUALI	POWERGRID	BSPHCL		POWERGRID		
142	KARMANASA-SAHUPURI	BSPHCL & UPPCL	BSPHCL		UPPCL		
143	KARMANASA-CHANDAULI	BSPHCL & UPPCL	BSPHCL		UPPCL		
144	SONENAGAR - RIHAND	BSPHCL & UPPCL	BSPHCL		UPPCL		
145	MAITHON-JAMTARA	DVC & JUSNL	DVC		JUSNL		
146	KHARAGPUR-KHARAGPUR	DVC	DVC		WBSETCL		
147	KOLAGHAT-KOLAGHAT	DVC	DVC		WBSETCL		
148	MACHKUND-VIZAG	APTRANSCO	OPTCL		APTRANSCO		
149	JODA-KENDPOSI	OPTCL & JUSNL	OPTCL		JUSNL		
150	BARIPADA-BANGIRIPOSI	OPTCL	POWERGRID		OPTCL		
151	BARIPADA-BARIPADA	OPTCL	POWERGRID		OPTCL		
152	GARWA-SONENAGAR	BSPHCL & JUSNL	JUSNL		BSPHCL		
-	LALMATIA-SABOUR	BSPHCL & JUSNL	JUSNL		BSPHCL		1
154	CHANDIL-MANIQUE	JUSNL & DVC	JUSNL		DVC		
	PATRATU-PATRATU	JUSNL & DVC	JUSNL		DVC		
155	GARWA-RIHAND	JUSNL & DVC	JUSNL		UPPCL		
157	RANGIT-RAMMAM	POWERGRID	NHPC		WBSETCL		
	KAHALGAON-SABOUR	POWERGRID	NTPC		BSPHCL		
159	KAHALGAON-LALMATIA	POWERGRID	NTPC		JUSNL		
	BIRPARA-BIRPARA	WBSETCL	POWERGRID		WBSETCL		
	MALDA-MALDA	WBSETCL	POWERGRID		WBSETCL		
162	SILIGURI-NBU	WBSETCL	POWERGRID		WBSETCL		
	SILIGURI - NJP	WBSETCL	POWERGRID		WBSETCL		
163	RANGIT -SAGBARI	SIKKIM	NHPC		SIKKIM		
164	ARHA-JAGDISHPUR	BSPHCL	POWERGRID		BSPHCL		
165	RANGIT-RANGPO	POWERGRID	NHPC		POWERGRID		
166	RANGIT-KURSEONG	POWERGRID	NHPC		WBSETCL		
167	RANGIT-SAGBARI	SIKKIM	NHPC		SIKKIM		
168	CHUJACHEN-GANGTOK	POWERGRID & GATI	GATI INFRA		POWERGRID		
169	BANKA-SABOUR	BSPTCL	POWERGRID		BSPTCL		
170	BANKA-BANKA	BSPTCL	POWERGRID		BSPTCL		
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171	RANGPO-CHUJACHEN	GATI INFRA	POWERGRID		GATI INFRA		
172	NJP-MELLI	POWERGRID	POWERGRID		SIKKIM		
		POWERGRID+GATI					
173	RANGPO- MELLI	INFRA	POWERGRID		SIKKIM		
174	NJP-MELLI	POWERGRID	POWERGRID		SIKKIM		
175	LAKHISARAI - JAMAUI	BSPHCL	POWERGRID		BSPHCL		
176	RANGIT - RABANGLA	POWERGRID	NHPC		SIKKIM		
177	KALINGPONG-MELLI	WBSETCL & SIKKIM	WBSETCL		SIKKIM		
178	BANKA-SULTANGUNJ	BSPTCL	POWERGRID		BSPTCL		

PMU Installation and commissioning status of ER as on 20.04.2017

				Owner/			TOTAL	PMU	Cable		Cable	CT/PT/DI	Commiss			
S.No	Region	State	Sub-Station	Utility	S/S type	PMU	PANEL	Delivery	Delivery	Erection	laving		ioning	Integration	SAT	Remarks
				ounty			QTY	status	status					-	_	
	50.11		78			286	175	73	61	51	45	40	40	24	37	
1	ER-II	West Bengal		WBSETCL	CR	3	1	Yes	Yes	done	done	pending	pending	Pending	r e	CT/ PT/ DI interfacing pending due to permission issue.
2	ER-II	West Bengal	BAKRESHWAR TPS	WBSETCL	CR	4	1	Yes	Yes	done	pending	pending	pending	Pending	pending	Panel erected. Cable laying pending due to permission issue.
3	ER-II	West Bengal	Bidhannagar	WBSETCL	CR	3	1	Yes	Yes	done	done	pending	pending	Pending	pending	Panel erected. Cable laying and termination at PMU panel completed. CT/ PT/ DI interfacing pending due to permission issue.
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.
5	ER-II	West Bengal	Kolaghat TPS	WBSETCL	CR	4	1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
6	ER-II	West Bengal	KASBA	WBSETCL	CR	3	1	Yes	Yes	done	done	done	done	done	pending	SAT pending as customer didn't agree to witness SAT.
7	ER-II	DVC	DSTPS	DVC	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
8	ER-II	DVC	Kodarma TPS	DVC	CR	3	1	Yes	Yes	done	done	done	done	Pending	done	Communication panel does not exist.
9	ER-II	DVC	MEJIA-B	DVC	CR	2	1	Yes	Yes	done	done	done	done	done	done	Integrated on 07.12.2016
10	ER-II	DVC	Maithon RB TPS	DVC	CR	2	1	Yes	Yes	pending	pending	pending	pending	Pending	pending	Work started on 04.07.2016. Panel shifted. Team demobilised due to access issue and panel location issue.
11	ER-II	DVC	Raghunathpur TPS	DVC	CR	3	1	Yes	Yes	done	done	done	done	Pending	done	Communication link was not available during work.
12	ER-II	DVC	AILA	DVC	CR	5	2	Yes	Yes	done	done	done	done	Pending		S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Will be integrated on Mar 2017.
13	ER-II	DVC	Bokaro	DVC	CR	2	1	Yes	Yes	done	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		S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Will be integrated on Mar 2017.
15	Odisha	Orissa	Budhipadar	OPTCL	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
16	Odisha	Orissa	MENDHASAL	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	OPTCL is not providing CT/ PT connection for Meeramundali-2 feeder.
17	Odisha	Orissa	MERAMANDALI	OPTCL	CR	6	2	Yes	Yes	done	under progress	pending	pending	Pending	pending	
18	Odisha	Orissa	RENGALI	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Integration delayed because CAT-6 cable is faulty.
19	Odisha	Orissa	U.KOLAB	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	
20	Odisha	Orissa	BALIMELA(H)	OPTCL	CR	3	1	Yes	Yes	done	done	partially done	pending	Pending	done	OPTCL denied to provide DC connection. CT/PT/DI interfacing pending due to permission issue.
21	ER-II	West Bengal	Durgapur	Powergrid	CR	5	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 30.05.2016.
22	ER-II	West Bengal	FARRAKA	NTPC	CR	5	2	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
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	N/A	N/A	N/A	N/A	N/A	N/A	OPTCL denied to provide DC connection.
25	Odisha	Orissa	JEYPORE	Powergrid	CR	2	1	Yes	Yes	done	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	done	PMU integrated on 21.06.2016.
27	ER-II	West Bengal	MALDA	Powergrid	CR	2	1	Yes	Yes	done	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	done	PMU integrated on 04.05.2016
29	Odisha	Orissa	ROURKELA	Powergrid	Kiosk	5	2	Yes	Yes	done	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
31	ER-II		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.
33	Odisha	Orissa	Bolangir	Powergrid	CR+Kiosk	2	3	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
34	Odisha	Orissa	ANGUL	Powergrid	Kiosk	10	11	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.03.2017.

PMU Installation and commissioning status of ER as on 20.04.2017

							TOTAL	PMU	Cable							
S.No	Region	State	Sub-Station	Owner/	S/S type	PMU	-		Delivery	Erection	Cable	CT/PT/DI	Commiss	Integration	SAT	Remarks
	•			Utility			QTY	-	status		laying	termination	ioning	-		
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
37	Odisha	Orissa	GMR	GMR	Kiosk	3	4	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
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. Will be integrated on
																Mar 2017.
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	No	N/A	N/A	N/A	N/A	N/A	N/A	
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	No	N/A	N/A	N/A	N/A	N/A	N/A	
45	ER-II	Jharkhand	Bokaro TPS	DVC	CR	1	1	Yes	Yes	done	pending	pending	pending	Pending	pending	
46	ER-II	West Bengal	Durgapur TPS	DVC	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
47	Odisha	Orissa	TTPS(Talcher)	OPTCL	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
48	Odisha	Orissa	TALCHER	NTPC	CR	5	2	No	No	N/A	N/A	N/A	N/A	N/A	N/A	NTPC is not allowing to deliver mterial.
49	ER-II	Sikkim	TEESTA	Powergrid	CR	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
50	Odisha	Orissa	Uttara	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	Pending	pending	Communication link from s/s to ERLDC and NTAMC to be
				-										_		provided by PGCIL.
51	Odisha	Orissa	Jindal	JITPL	CR	2	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
52	Odisha	Orissa	Monnet	Monnet	CR	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
53	Odisha	Orissa	Strelite	Strelite	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
54	Odisha	Orissa	Ind barath	Ind barath	Kiosk	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
55	ER-II	Sikkim	New Melli	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
56	ER-II	Sikkim	TT Pool	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
57	ER-II	West Bengal	Alipurduar	Powergrid	CR	6	7	Yes	Yes	partially	partially	pending	pending	Pending	pending	
		_		_						done	done		-	_		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.
58	ER-II	West Bengal	Rajarhat	Powergrid	CR	2	1	Yes	Yes	done	pending	pending	pending	Pending	pending	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 withheld due to gate pass issue.
61	ER-I	BIHAR	Purnea	Powergrid	CR	6	2	Yes	Yes	done	done	pending	pending	done	pending	PMU integrated on 13.04.2017
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	under	pending	pending	Pending	pending	
							_				progress					
64	ER-I	BIHAR	SASARAM(Pusauli)	Powergrid	CR+Kiosk	9	3	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
65	ER-I	BIHAR	BARH	NTPC	CR	4	1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
66	ER-I	BIHAR	LakhiSarai	Powergrid	Kiosk	4	5	Yes	Yes	done	done	done	done	Pending	done	SAT completed. PMU not integrated because FO cable was
~~	2.1.1	Dinit		- oneignu	KIOSK											not delivered due to road permit issue.
67	ER-I	BIHAR	BANKA	Powergrid	Kiosk	4	5	Yes	Yes	done	done	done	done	Pending	pending	SAT pending. PMU not integrated because switch was not
Ŭ,	2.1.1	Dinit		- oneignu	KIOSK										perions.	delivered to site. Switch in transit.
												1				

PMU Installation and commissioning status of ER as on 20.04.2017

S.No	Region	State	Sub-Station	Owner/ Utility	S/S type	PMU	TOTAL PANEL QTY	Delivery	Cable Delivery status	Erection	Cable laying	CT/PT/DI termination	Commiss ioning	Integration	SAT	Remarks
68	ER-I	Jharkhand	Chaibasa	Powergrid	Kiosk	4	5	Yes	Yes	done	under progress	pending	pending	Pending	pending	
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	N/A	N/A	N/A	N/A	N/A	N/A	
72	ER-I	Bihar	MUZAFFAPUR	Powergrid	CR	5	2	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
73	ER-I	Jharkhand	Daltonganj	Powergrid	Kiosk	2	3	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	Road permit for Switch is pending.
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.
75	ER-I	Jharkhand	Jharkhand Pool (Chan	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.
76	ER-I	Jharkhand	Patratu	Jharkhand	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
77	ER-I	Jharkhand	Tenughat	Jharkhand	CR	2	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
78	ER-I	Bihar	Barauni PP	Bihar	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.

ER PMU site activity Summary:

	Desien	Utility	As per approve	d BOQ	Supp	lied	Ins	talled	Commi	ssioned	ntegrated	to ERLDC/ SLD
SI. No.	Region	Othinty	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	11	69	8	47	5	37
2	ER-I	NTPC	2	10	2	10	1	6	0	0	0	0
3	ER-I	Jharkhand	2	5	2	5	0	0	0	0	0	0
4	ER-I	Bihar	1	0	0	0	0	0	0	0	0	0
	ER-I	Total	20	109	19	109	12	75	8	47	5	37
1	ER-II	Powergrid	13	42	11	42	10	39	8	33	7	29
2	ER-II	NTPC	1	5	1	5	0	0	0	0	0	0
3	ER-II	DVC	13	37	13	37	10	29	9	28	4	13
4	ER-II	WBSETCL	7	21	7	21	5	15	2	5	2	5
	ER-II	Total	34	105	32	105	25	83	19	66	13	47
1	Odisha	Powergrid	10	38	10	38	10	38	10	38	6	30
2	Odisha	OPTCL	8	19	6	16	5	15	3	6	0	0
3	Odisha	NTPC	1	5	1	5	0	0	0	0	0	0
4	Odisha	IPP	5	10	5	10	0	0	0	0	0	0
	Odisha	Total	24	72	22	69	15	53	13	44	6	30
	ER	Total	78	286	73	283	52	211	40	157	24	114

SI. No.	Site Name	Work Progress
		Installed, powered up, functioning and integrated with DVC,
1	ERLDC	WBSETCL and OPTCL PDS system.
2	Backup-NLDC	POSOCO did not provide space for PDS system installation.
		Installed, powered up, functioning and integrated with ERLDC
3	SLDC, Maithon	PDS system.
		Installed, powered up, functioning and integrated with ERLDC
4	SLDC, Bhubaneswar	PDS system.
		Installed, powered up, functioning and integrated with ERLDC
5	SLDC, Howrah (WBSETCL)	PDS system.

Status of PDS system Installation and commissioning at ER as on 20.04.2017

		Protection & Control System							
SI.	Substation	Availability			Time Synchronization			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	

AVAILABILITY STATUS OF EVENT LOGGER, DISTURBANCE RECORDER & GPS

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

Eastern Regional Power Committee

The status of ERS towers in Eastern Region as 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	ERS towers in use
1	Durgapur, ER-II	1 Set (8 towers)	
2	Rourkela, ER-II	3 towers incomplete shape	
3	ER-I (located at Jamshedpur)	15 towers (10 nos Tension tower and 5 nos suspension tower)	

- 2) The present status of ERS towers in OPTCL system is as follows:
- > 220 kV ERS towers: 42 nos located at Mancheswar, Chatrapur & Budhipadar
- ➢ 400 kV ERS towers: 2 nos located at Mancheswar.
- > 12 nos. of new 400 kV ERS towers have been recieved.

Another, 16 nos of 400 kV towers accompanied with 6 sets of T&P are required which is under ➤ process

- 3) WBSETCL informed that they have placed order for 2 sets of ERS towers on 31.10.2014 and expected by June, 2015.
- 4) The 25th ERPC meeting held on 21.09.2014, the board concurred to the proposal of procurement of four sets of ERS and it was also informed that, the proposed four sets of ERS will be kept at Sikkim, Siliguri, Ranchi and Gaya and will be used by all constituents of ER during emergencies.

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

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

Availability of Emergency Restoration System in BSPTCL system

Sl. No.	Туре	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		

Note:-

- 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 is currently available in our system (as mentioned in above table with remarks "New").
- Same ERS tower is used in both 220 Kv and 132 kV circuits.

Det	ails of stations/U	Whether operating under RGMO	indicate in case of status i 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 RGMO & exemption not
JHARKHAND	L hudro		SS SS		2	210 65	No Yes	KGINO & exemption not
	Hydro	JSEB	SS	Subarnrekha	2	65	Yes	
			SS SS		1	82.5	No	
			SS	Bandel TPS	2	82.5 82.5	No No	
			SS	Dander H O	4	82.5	No	
			SS		5	210	No	
			SS	Santaldih	5	250	No	Unit#6 could not be
			SS SS	Santaidin	6 1	250 210	No No	implemented because of some technical problem Nil
			SS	1	2	210	No	Nil
		WBPDCL	SS	Kolaghat	3	210	No	Nil
	Termal		SS	Rolagriat	4	210	No	Nil
WEST BENGAL			SS SS	-	5	210 210	No No	Nil Nil
			SS		1	210	Yes	
			SS		2	210	Yes	
			SS	Bakreshwar	3	210	Yes	
			SS SS		4 5	210 210	Yes Yes	
			SS		5	300	No	Without OEM support it is
			SS	Sagardighi	2	300	No	not possible to put in FGMO/RGMO. At present OEM support is not
	Hydro		SS		1	225	Yes	
			SS SS	PPSP	2	225	Yes Yes	In 134th OCC WBPDCL informed that the units ar
			SS	1	4	225 225	Yes	in RGMO/FGMO mod
	Thermal	CESC	SS	Budge-Budge	1	250	Yes	
			SS		2	250	Yes	
			SS SS		3	250 300	Yes Yes	
			SS	Haldia	2	300	Yes	
	Thermal	DPL	SS	DPL	7	300	Yes	
		OPGC	SS	IB TPS	1	210	No	Not adequate response in
			SS SS		2	210 49.5	No No	RGMO
			SS	1	2	49.5	No	
			SS	1	3	32	No	
			SS	Burla	4	32	No	
			SS SS	1	5 6	37.5 37.5	No No	
			SS	1	7	37.5	No	
			SS		1	60	No	
			SS	4	2	60	No	
		OHPC	SS SS	1	3	60 60	No No	
	Hydro		SS	Balimela	5	60	No	
Orissa			SS		6	60	No	
OIISSA			SS SS	4	7	75 75	No No	
			SS	Rengali	8	75 50	NO	
			SS		2	50	No	
			SS		3	50	No	
			SS SS		4	50 50	No	
			SS		5	50 80	No No	
			SS	Lippor Kalah	2	80	No	
			SS	Upper Kolab	3	80	No	
			SS	<u> </u>	4	80	No	1
Annexure-B35

			SS SS SS	Indravati	2 3	150 150	No No	
l				-				
					4	150	No	
T			64	4 L		100	110	
		1	04				1	
			CS	Bokaro-A	1	500	No	RGMO will be service once the unit comes in CMC mode of operation. It will be done shortly in presence of BHEL experts.
			CS		1	210	No	Not possible due to non availability of Electro
			CS	Bokaro-B	2	210	No	hydraulic governing. The units will be
			CS		3	210	No	decommissioned shortly.
			CS		2	140	No	Not possible due to non availability of Electro
			CS	CTPS	3	140	No	hydraulic governing. The units will be decommissioned shortly.
			CS	4 -	7	250	Yes	
			CS	4 -	8	250	Yes	_
	Thermal	DVC	CS	DTPS	4	210	No	Not possible due to non availability of Electro hydraulic governing. The units will be
		-						decommissioned shortly.
			CS		1	210	No	Not possible due to non
			CS	1 [2	210	No	availability of Electro
			CS	Mejia	3	210	No	Action has been initiated to put in RGMO, but testing is not yet completed.
			CS	1 1	4	210	Yes	
			CS	1	5	250	Yes	
Central Sector			CS	1	6	250		
Central Ocolor			00		7	500	Yes Yes	
			CS CS	Mejia - B		500	Yes	_
				1	8	500	Yes	
			CS CS	DSTPS	2	500	Yes	_
			CS		1	500	Yes	
			CS	KODERMA	2	500	Yes	_
			CS		1	600	Yes	
			CS	RTPS	2	600	Yes	-
			CS		1	40	No	RGMO mode of operation
	Hydro		CS	Panchet	2	40	No	would not be possible for
F			CS		1	200	Yes	
			CS	Farakka STPP-I	2	200	Yes	
			CS		3	200	Yes	
			CS		1	500	Yes	
			CS	Farakka STPP-II	2	500	Yes	
			CS	Farakka-U#6		500	Yes	Kept in RGMO mode from April, 2014
			CS CS	4 1	1 2	210 210	Yes Yes	
	Thermal	NTPC	CS	1	2	210	Yes	
			CS	Kahalgoan STPP	4	210	Yes	
			CS	Ranaigoan orri	5	500	Yes	
			CS	1	6	500	Yes	
			CS	1	7	500	Yes	
			CS	Table OTDE CL	1	500	Yes	
			CS	Talcher STPP Stg-I	2	500	Yes	
			CS	Barh	5	660	Yes	
			CS	Barh	6	660	Yes	
F			CS		1	170	Yes	
	Hydro	NHPC	CS	Teesta HEP	2	170	Yes	
	-		CS		3	170	Yes	
			45					
			PS	Maither DD TDD	1	525	Yes	
			PS	Maithon RB TPP	2	525	Yes	
			PS		1	600	Yes	
	Thormal	IPP	PS	Sterlite	2	600	Yes	
	Thermal	IPP	PS	Sternite	3	600	Yes	
1			PS		4	600	Yes	
			PS	Adhunik Power	1	270	Yes	

Annexure-B35

			PS	JLHEP	1	48	No	(RoR project with 3 hours
IPP			PS	JLIILF	2	48	No	pondage)
			PS	Chujachen HEP	1	49.5	No	(RoR project with 3 hours
			PS		2	49.5	No	pondage)
			PS		1	200	No	could be put in RGMO
	Hydro	IPP	PS		2	200	No	mode but because of
	Hyulo	IFF	PS	Teesta Urja	3	200	No	transmission evacuation
			PS	reesta Orja	4	200	No	constraint RGMO/FGMO is
			PS		5	200	No	disabled
			PS		6	200	No	disabled
			PS	Dikchu	1	48	No	(RoR project with 3 hours
			PS	DIKCHU	2	48	No	pondage)
			20					

Annexure-B35A

Governor response observed in ER generating units

Generation loss at TPCIL at 19:33 hrs on 25-10-17 Generation loss at TPCIL at 21:36 hrs on 30-10-17

Generation loss at TPCIL at 19:33 hrs on 25-10-17 Frequency changed to 49.92 Hz from 50.05 Hz

Name	Initial generation	Final generation	Change in generation	Ideal response **	% of Ideal response	Remarks
						Below
KhSTPP #2	205.9	210.9	5.0	10.3	48%	Satisfactory
FSTPP #4	375.1	379.2	4.1	18.8	22%	Unsatisfactory
KhSTPP #7	484.8	489.5	4.7	24.2	19%	Unsatisfactory
JITPL #2	527.0	530.0	3.0	26.4	11%	Unsatisfactory
KhSTPP #6	489.5	491.8	2.3	24.5	10%	Unsatisfactory
KhSTPP #1	201.1	202.1	1.0	10.1	10%	Unsatisfactory
Barh Unit-						
5	650.2	652.9	2.7	32.5	8%	Unsatisfactory
FSTPP #5	393.4	394.8	1.5	19.7	7%	Unsatisfactory

Generation loss at TPCIL at 19:33 hrs on 25-10-17 Frequency changed to 49.92 Hz from 50.05 Hz

Name	Initial generation	Final generation	Change in generation	ldeal response **	% of Ideal response	Remarks
MPL #2	508.0	507.0	-1.0	25.4	-4%	Unsatisfactory
FSTPP #2	175.6	175.1	-0.5	8.8	-6%	Unsatisfactory
MPL #1	517.0	514.0	-3.0	25.9	-12%	Unsatisfactory
FSTPP #3	174.3	171.5	-2.8	8.7	-32%	Unsatisfactory

Generation loss at TPCIL at 21:36 hrs on 30-10-17 Frequency changed to 49.96 Hz from 50.10 Hz

Name	Initial generation	Final generation	Change in generation	Ideal response **	% of Ideal response	Remarks
KhSTPP #2	203.5	208.3	4.8	10.2	47%	Below Satisfactory
FSTPP #1	166.0	166.5	0.5	8.3	6%	Unsatisfactory
Barh Unit-5	366.6	367.6	1.0	18.3	5%	Unsatisfactory
KhSTPP #6	479.8	479.2	-0.6	24.0	-2%	Unsatisfactory
FSTPP #3	161.5	161.2	-0.2	8.1	-3%	Unsatisfactory
Barh Unit-4	361.5	360.7	-0.8	18.1	-4%	Unsatisfactory
KhSTPP #7	493.9	492.4	-1.5	24.7	-6%	Unsatisfactory
KhSTPP #5	496.5	494.5	-2.1	24.8	-8%	Unsatisfactory
FSTPP #2	167.2	166.1	-1.1	8.4	-13%	Unsatisfactory

						Ger	neratio	on Pro	ojection (Ja	n 201	8 - M	ar 20'	18)				
						red Comme ' to 30th Sep			Generation declare from	ed/expect 1st Oct'1			ommercial				
SI. No.	Entities	Regio n	Projection s based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considere d	Sub Total	Bus Name	Unit No.	Installe d Capacit y	Gen. considere d	Sub Total	TOTAL	Comments From DICs /Others (if any)	Figure as per Comments/ PoC Data	Projected Generation before normalization w.r.t projected All India Peak Demand
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)			(MW)
1	West Bengal	ER	5065											5065			5065
2	Odisha	ER	2884											2884	As per data given by GRIDCO	3144	3144
3	Bihar	ER	153											153			153
4	Jharkhand	ER	444											444			444
5	Sikkim	ER	0											0			0
6	Chujachan	ER	94											94	As per data given by Chuzachen	110	110
	DVC	ER															
	Durgapur Steel	ER															
7	Koderma TPP	ER	3975											3975	As per data given by DVC	4087	4087
	Bokaro TPS	ER															
	Raghunathpur	ER															
8	MPL	ER	1022											1022	As per last quarter	990	990
9	Teesta V	ER	541											541	As per NHPC	510	510
10	Kahalgaon	ER	2196											2196	As per NTPC	2178	2178
11	Farakka	ER	1928											1928	As per NTPC	1968	1968
12	Talcher	ER	976											976			976
13	Rangit	ER	64											64	As per NHPC	60	60
14	Adhunik Power	ER	506											506			506
15	Barh	ER	1274											1274	As per NTPC	1057	1057
16	Kamalanga TPP (GMR)	ER	678											678			678
17	JITPL	ER	839											839			839
18	Jorethang	ER	63											63			63
19	Bhutan	ER	327											327			327

						Ger	neratio	n Pr	ojection (Ja	n 201	8 - N	lar 20'	18)				
						red Comme ' to 30th Sep			Generation declare from	ed/expect 1st Oct'1			ommercial				
SI. No.	Entities	Regio n	Projection s based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considere d	Sub Total	Bus Name	Unit No.	Installe d Capacit y	Gen. considere d	Sub Total	TOTAL	Comments From DICs /Others (if any)	Figure as per Comments/ PoC Data	Projected Generation before normalization w.r.t projected All India Peak Demand
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)			(MW)
		ER		Teesta-III	1	200	158										
		ER		Teesta-III	2	200	158										
20	Teesta-III	ER		Teesta-III	3	200	158	950						950			950
20	reesta-m	ER		Teesta-III	4	200	158	950						950			950
		ER		Teesta-III	5	200	158										
		ER		Teesta-III	6	200	158										
		ER							Dikchu	1	48	38	70	70			70
21	Dikchu HEP	ER							Dikchu	2	48	38	76	76			76
22	Nabinagar BRBCL	ER		Nabinagar BRBCL	1	230	151	151	Nabinagar BRBCL	2	230	151	151	301			301
	TOTAL		23028					1101					227	24356			24483

Note:

1. Projections are based on monthly maximum injection in the last 3 years from actual metered data.

2. Generation forecast has been done based on the following criteria

(i) If there is an increasing trend then last year average generation has been considered

(ii) Otherwise average of past three year average generation has been considered

3. In case of new generators where past data was not available following has been assumed

(i) 0.80 plf for hydro generators

(ii) 0.7 plf for thermal generators.

(iii) 0.3 plf for gas stations

					DEMAND	FORECAS	TUSING P	AST3 YEA	rs data (j	an 2018 - N	<i>l</i> ar 2018)				
		0011.15			0045.40			0040.47		1	2	3	4		
	Jan-15	2014-15 Feb-15	Mar-15	Jan-16	2015-16 Feb-16	Mar-16	Jan-17	2016-17 Feb-17	Mar-17	2014-15 Average	2015-16 Average	2016-17 Average	Projected Demand for (Jan 2018 - Mar 2018) before normalization	Data given by DICs	Comments
Bihar	2,602	2,830	2,874	3,484	3,278	3,419	3,535	3,543	3,715	2,769	3,394	3,598	4,082		
DVC	2,467	2,320	2,393	2,421	2,381	2,473	2,457	2,570	2,663	2,393	2,425	2,563	2,631	2960	As per data given by DVC
Jharkhand	1,018	1,016	1,007	1,117	1,102	1,153	1,121	1,165	1,148	1,014	1,124	1,145	1,225		
Odisha	3,364	3,525	3,892	3,739	3,931	4,091	3,896	3,847	3,989	3,594	3,920	3,911	4,125	4002	As per data given by GRIDCO
West Bengal	6,317	6,721	7,332	6,240	6,858	7,443	6,078	7,036	7,840	6,790	6,847	6,985	7,069		
Sikkim	83	83	77	109	109	109	91	91	91	81	109	91	104		

Notes

1. Projections are based on the past 3 years' monthly Peak Demand Met data available on the website of CEA

2. The above projections are being done for financial year 2017-2018 (Q4) i.e. January 2018 to March 2018

3. Projections are being done based on the forecast function available in MS Office Excel

4. CEA Reports can be accessed from the following links:

CEA Reports can be accessed information to converge miles. http://www.cea.nic.in/reports/monthly/cowersuppl/2017/psp_peak-03.odf http://www.cea.nic.in/reports/monthly/powersuppl//2017/psp_peak-02.odf

http://www.cea.nic.in/reports/monthlv/powersupplv/2017/psp_peak-01.pdf

http://www.cea.nic.in/reports/monthlv/powersupplv/2016/psp_peak-01.pdf

http://www.cea.nic.in/reports/monthly/powersupply/2016/psp_peak-02.pdf

http://www.cea.nic.in/reports/monthly/powersupply/2016/psp_peak-03.pdf

http://www.cea.nic.in/reports/monthly/powersupply/2015/psp_peak-03.pdf

http://www.cea.nic.in/reports/monthly/powersupply/2015/psp_peak-02.pdf http://www.cea.nic.in/reports/monthly/powersupply/2015/psp_peak-02.pdf

Annexure-C.1

Anticipated Power Supply Position for the month of Dec-17

c	L.NO	P A R T I C U LA R S	PEAK DEMAND	ENERGY
	L.NU		MW	MU
1	i)		2000	2200
	i) ii)	NET MAX DEMAND NET POWER AVAILABILITY- Own Source (including bilateral)	3900 341	2200 163
	11)	- Central Sector		
			2647	1537
	iii)	SURPLUS(+)/DEFICIT(-)	-912	-500
2		JHARKHAND		
	i)	NET MAX DEMAND	1200	800
	ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	450	269
		- Central Sector	700	285
	iii)	SURPLUS(+)/DEFICIT(-)	-50	-246
		DV/O		
3	i)	DVC NET MAX DEMAND (OWN)	2760	1712
	ii)	NET POWER AVAILABILITY- Own Source	4774	2689
	""	- Central Sector	439	300
			1300	
	iii)	Long term Bi-lateral (Export) SURPLUS(+)/DEFICIT(-)	1153	967 310
	,			
4		ORISSA		
	i)	NET MAX DEMAND	3900	2418
	ii)	NET POWER AVAILABILITY- Own Source	3117	1676
		- Central Sector	1037	644
	iii)	SURPLUS(+)/DEFICIT(-)	254	-98
5		WEST BENGAL		
5.1		WBSEDCL		
	i)	NET MAX DEMAND (OWN)	5200	2649
	ii)	CESC's DRAWAL	0	0
	iii)	TOTAL WBSEDCL'S DEMAND	5200	2649
	iv)	NET POWER AVAILABILITY- Own Source	3663	1813
	,	- Import from DPL	10	0
			1739	
	. ^	- Central Sector		1046
	v)	SURPLUS(+)/DEFICIT(-)	212	210
	vi)	EXPORT (TO B'DESH & SIKKIM)	10	7
5.2		DPL		
	i)	NET MAX DEMAND	230	181
	ii)	NET POWER AVAILABILITY	240	132
	iii)	SURPLUS(+)/DEFICIT(-)	10	-49
5.3		CESC	4.400	700
	i)	NET MAX DEMAND	1480	733
	ii)	NET POWER AVAILABILITY - OWN SOURCE	460	384
		FROM HEL	540	339
		FROM CPL/PCBL	40	0
		Import Requirement	440	30
	iii)	TOTAL AVAILABILITY	1480	753
	iv)	SURPLUS(+)/DEFICIT(-)	0	20
	-			
6		WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
	i)	NET MAX DEMAND	6910	3563
	ii)	NET POWER AVAILABILITY- Own Source	4363	2330
)	- Central Sector+Others	2759	1385
	iii)	SURPLUS(+)/DEFICIT(-)	212	151
7		SIKKIM		
	i)	NET MAX DEMAND	90	38
	ii)	NET POWER AVAILABILITY- Own Source	3	2
	,	- Central Sector+Others	82	51
	iii)	SURPLUS(+)/DEFICIT(-)	-5	14
8		EASTERN REGION		
		At 1.03 AS DIVERSITY FACTOR		1
	i)	NET MAX DEMAND	18214	10731
		Long term Bi-lateral by DVC	1300	967
		EXPORT BY WBSEDCL	10	7
				1
		NET TOTAL DOMED AVAILABILITY OF FR	0074.0	11000
	ii)		20712	11330
	ii) iii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION) PEAK SURPLUS(+)/DEFICIT(-) OF ER	20712	-375

Proposed Maintenance Schedule of Thermal Generating Units of ER during December, 2017 (as finalised in LGBR meeting)

System	Station	Unit	Size (MW)	Per	riod	No. of	Reason
System	Station	UIIIt	Size (IVI VV)	From	То	Days	Reason
WBPDCL	KTPS	5	210	end of	Dec 17	7	Boiler License
WBFDCL	Bandel TPS	5**	210	01.12.17	30.12.17	30	Boiler Overhauling

EASTERN REGIONAL LOAD DESPATCH CENTRE KOLKATA

τρΔ	NSMISSION ELEMENTS OUTAGE APPROV	FD IN 130		MEETING			KOLKATA		
SL. No	NAME OF THE ELEMENTS	FRO DATE		DATE	TIME	REMARKS	S.D availed BY	Reason	SUBJECT TO CONSENT FROM Agency
1	400kv Rourkela-Raigarh Fdr -IV (Direct)	22/11/17	08:00	10/12/17	17:30	OCB	ER-II/Odisha/Sundergarh	Erection & stringing of M/C tower of Diversion Works. (Dismantling of Loc 375 and Erection of New Tower loc 375 and stringing for M/C portion). Also other Diversion works of loc 366 to 368 of 400kv Rourkela-Raigarh line IV (direct) and 400kv Sundargarh-Raigarh-Idr-II on behalf on OPSC	NLDC
2	400kv Sundargarh-Raigarh-Fdr-II	22/11/17	08:00	10/12/17	17:30	OCB	ER-II/Odisha/Sundergarh	Erection & stringing of M/C tower of Diversion Works. (Dismantling of Loc 375 and Erection of New Tower loc 375 and stringing for M/C portion) . Also other Diversion works of loc 366 to 368 of 400kv Rourkela-Raigarh line IV (direct) and 400kv Sundargarh-Raigarh-Idr-II on behalf on OPCC	NLDC
	FSC-I of 400kv Ranchi-Sipat-I at Ranchi 220KV BUS-II at Ranchi	27/11/17 28/11/17	10:00 10:00	27/11/17 28/11/17	17:00 17:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP WORK of FSC Bay AMP WORK	NLDC JSEB
5	416 (Ragunathpur-III Main Bay) at Ranchi 50MVAR RB LR-II at Ranchi	29/11/17	10:00	29/08/17	17:00	ODB	POWERGRID ER-I	AMP	5525
7	220 KV MAIN BAY CB OF 160 MVA ICT#1 AT PRN	30/11/17 01/12/17	10:00 09:00	30/08/17 02/12/17	17:00	ODB OCB	POWERGRID ER-I POWERGRID ER-I	AMP DEW POINT MEASUREMENT DONE OF Y & B POLE. RESULT IS BELOW EXPECTED LEVEL, POLE RECONDITIONING TO BE DONE. AND CB TESTING.	
8	132 KV PURNEA - PURNEA BSPTCL#3 LINE 50 MVAR BR - 1 AT JSR	01/12/17 01/12/17	09:00 09:30	23/12/17 02/12/17	17:00 17:30	OCB OCB	POWERGRID ER-I POWERGRID ER-I	GIS WORK BR 3 bay construction work	Bihar
10	Bay - 410 (Main bay of RKL-II) AT CHAIBASA	01/12/17	10:00	01/12/17	17:00	ODB	POWERGRID ER-I POWERGRID ER-I	AMP AMP (17-18)	NLDC
	765 KV Bus-I at New Ranchi 400/132KV 200 MVA ICT-I AT BANKA SS	01/12/17 01/12/17	08:00 09:00	02/12/17 01/12/17	18:00 17:00	ODB ODB	POWERGRID ER-I	AMP (17-16) AMP work	BIHAR
13	50 MVAR Line Reactor of 400KV Sagradighi Line AT SUBHASGRAM	01/12/17	08:00	30/12/17	17:30	OCB	ER-II	Construction work under ERSS-XV to make the reactor switchable	WB
14	100 MVAR Bus Reactor at Jeerat	01/12/17	08:00 09:00	01/12/17 05/12/17	17:30 17:00	ODB ODB	ER-II ER-II	FDS MEASURMENT	WB
ن د	40752 DAT AT BINAGURI 400 kV Bus -I at Jeypore	01/12/17	09:00	01/12/17	18:00	ODB	ER-II/Odisha/Jeypore	BHEL CB Hydraulic perating mechanism overhauling For Bay Equipment Erection under ongoing STATCOM Project Works (Outage to be booked under	
16	400KV BUS-I at Rourkela	01/12/17	09:00	01/12/17	14:00	ODB		Construction Head) Erection, Installation & Alignment of 41089 Isolator & E/S in Bay No 410 (STATCOM MAIN BAY).	
17							ER-II/Odisha/ROURKELA		
18	80 MVAR BUS REACTOR at Bolangir	01/12/17	08:00	01/12/17	18:00	ODB	ER-II/Odisha/BOLANGIR	AMP work for 80 MVAR Bus Reactor	
19	Non auto mode of A/R in 400 KV Rengali-Indravati Line	01/12/17	08:00	31/12/17	18:00	ODB	ER-II/Odisha/BOLANGIR	For Carrying out PID of line , No Power Interuption will be there.	
20	132 kV 101 BAY (Jaleswar Line main Bay) at Baripada 220kv Budhipadar-Korba S/C Fdr-III At Jerat: 400 kv MB 2 with Bus Coupler & 315 MVA	01/12/17	09:00	01/12/17	17:30 17:30	ODB OCB ODB	ER-II/Odisha/Sundergarh	(CT junction Box Replacement For Diversion/ modification of multi curcuit line in between 220kv Budhipadhar-Korba S/C from Loc 29 to 39 and 400Kv D/C Rourkela-Raigarh line IV (direct) and 400kv Sundargarh-Raigarh-Idr-II from 385 to 375 for construction of dedicated MGR (Rail Line) at Village Belpahar, Amdhara & Chualiberna (Depositary works on behalf of OPGC)	NLDC
22	Transformer 4	01/12/17	07:00	01/12/17	15:00	000	WB	Winter Maintenance	
23	400kV East Side Main Bus-I at Pusauli	02/12/17	08:00	02/12/17	18:00	ODB	POWERGRID ER-I	To Carry out erection and stringing work of 400kV Daltonganj -I Bay at Pusauli.	NLDC
24	400kV Tie bay of ICT-I & Daltangonj -I at Pusauli	02/12/17	08:00	03/12/17	18:00	OCB	POWERGRID ER-I	To Carry out erection and stringing work of 400kV Daltonganj -I Bay at Pusauli.	
25	400/132KV 200 MVA ICT-II AT BANKA SS	02/12/17	09:00	02/12/17	17:00	ODB	POWERGRID ER-I	AMP work	BIHAR
26	132 kV 103 BAY (BhograiLine main Bay) at Baripada 400KV BUS-II at Rourkela	02/12/17 02/12/17	09:00 09:00	02/12/17 02/12/17	17:30 14:00	ODB ODB	ER-II/Odisha/BARIPADA S ER-II/Odisha/ROURKELA	CT junction Box Replacement	
27								Erection, Installation & Alignment of 41289 Isolator & E/S in Bay No 412 (STATCOM FUTURE BAY). For Bay Equipment Erection under ongoing STATCOM Project Works (Outage to be booked under	
28	400 kV Bus -II at Jeypore	02/12/17	09:00	02/12/17	13:00	ODB	ER-II/Odisha/Jeypore	Construction Head)	
30	125 MVAR Bus Reactor - I AT Alipurduar 400 kV Bus-II at Baripada	03/12/17 03/12/17	08:00 08:30	05/12/17 03/12/17	18:00 17:30	OCB ODB	ER-II ER-II/Odisha/BARIPADA S/S	Oil leakage from Rediator, Radiator (1 no) to be replaced For GIS bay EXTN works(for isolation of GIS Bus-II)	
31	400 kV Bay 415 CB(GIS) at Baripada	03/12/17	08:30	12/12/17	17:30	OCB	ER-II/Odisha/BARIPADA S/S	For GIS Bus-II ext. works	
32	500MVA ICT #3 at Baripada	03/12/17	09:30	03/12/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	PRD replacement & Insulation sleeves work on 52 kV buhsings	
	Tie Bay of 400 kV KHG-1 & 80 MVAR Bus Reactor AT	04/12/17	10:00	04/12/17	14:00	ODB	POWERGRID ER-I	Cable realizement of CD Series Charging Marter	
	LAKHISARAI 220kV JUSNL BUS -1 AT RAMCHANDRAPUR	04/12/17	09:30	04/12/17	17:30	ODB	POWERGRID ER-I	Cable replacement of CB Spring Charging Motor. ICT 3 Bay construction work.	JSEB
	400/220kV, 315MVA ICT-1 AT JSR BAY-407(Main Bay of JSR-2) at Chaibasa	04/12/17 04/12/17	09:30 10:00	04/12/17 04/12/17	17:30 17:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	ICT3 Bay construction work. AMP	JSEB
	418 (Main bay Barh-1) at Patna	04/12/17 04/12/17	09:00	04/12/17	18:00	ODB		AMP work	
	400 kV Patna-Barh CKT - I AND 400 kV Kahalgaon-Barh CKT - II	04/12/17	08:00	09/12/17	18:00	ODB	POWERGRID ER-I	Replacement of Porcelain Insulator with Polymer ones at Multi Circuit portion & insulator washing at	
38	Tie bay of 765 KV Dharmjaygarh line -2 & Future bay						POWERGRID ER-I	Loc no 545 to 550 and 654 to 657.	
	(bay 714)at New Ranchi FSC-II of 400ky Ranchi-Sipat-II at Ranchi	04/12/17 04/12/17	08:00	04/12/17 04/12/17	18:00 17:00	ODB ODB	POWERGRID ER-I	AMP (17-18) AMP WORK of FSC Bay	NLDC NLDC
	400kV East Side Main Bus-II at Pusauli	04/12/17	10:00	05/12/17	13:00	ODB	POWERGRID ER-I	To Carry out erection and stringing work of 400kV Daltonganj -II Bay at Pusauli	NLDC
	400 KV PTN - BALIA -1	04/12/17	09:00	05/12/17	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING at loc no 7, 70 to 90, 101 to 111, 135 to 145 etc.	NLDC
43	400 KV BUS-I at Gaya S/S	04/12/17	08:00	04/12/17	18:00	ODB	POWERGRID ER-I	Bay extension work for Gaya Navinagar Line	
	132KV Bus of Gangtok S/s with all elements connected to 132 KV system	04/12/17	09:00	04/12/17	17:30	005	ER-II	All bus isolator AMP and 132KV Bus AMP, proper alignment checking of all Bus isolator is required	CIVUINA
44	400KV Berhampore Sagardighi Ckt-I	04/12/17	10:00	05/12/17	17:00	ODB ODB	ER-II	very urgently otherwise during operation crticality may be occurred TL AMP AND BAY AMP	SIKKIM WB
_	63MVAr Dubri Line reactor(407R) at Baripada	04/12/17	09:30	04/12/17	17:30	ODB	ER-II/Odisha/BARIPADA	AMP works	
46	400KV ICT-1 MAIN BAY(401) AT ANGUL	04/12/17	10:00	04/12/17			S/S		
4/	400KV ICI-1 MAIN BAY(401) AT ANGUL 400 KV Indravati-Rengali line	04/12/17	09:00	04/12/17	18:00	ODB ODB	ER-II/Odisha/Angul SS ER-II/Odisha/Indravati	AMP Work. To attend the hotspot observed in connector at the top of Wave Trap	
48	400 kV Indravati-kengali line 400kV Rengali-Indravati Main Bay-412 at Rengali	04/12/17	09:00	04/12/17	16:00	ODB	ER-II/Odisha/Indravati ER-II/Odisha/Rengali	For CB Mechanism overhaulling work and AMP.	NLDC
	400KV ROURKELA-TALCHER#2	04/12/17	09:00	06/12/17	18:00	ODB	ER-II/Odisha/ROURKELA	For replacement of disc insulators with polymer insulators by M/s Selim Construction.	
50 51	400KV 80 MVAR Bus Reactor at Keonjhar	04/12/17	09:00	04/12/17	18:00	ODB	ER-II/Odisha/Keonjhar	AMP Activity	
52	400 KV Main Bus-I at Balangir	04/12/17	08:00	09/12/17	18:00	ODB	ER-II/Odisha/BOLANGIR	for Stringing work of newly constructed 125 MVAR bus reactor at Balangir	
	BKTPP 400 kv bus reactor	04/12/17	07:00	05/12/17	16:00	ODB	WB	O.D.B.	D'h
55	220 KV Ara Sasaram 220 KV PRN-NPRN-1	05/12/17 05/12/17	10:00 09:00	05/12/17 05/12/17	17:00 16:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP Work FOR LINE AND BAY AMP WORK	Bihar
56	400 Kv Muz - Bsf Ckt-2 220kV JUSNL BUS-2 AT RAMCHANDRAPUR	05/12/17 05/12/17	09:00 09:30	05/12/17 05/12/17	18:00 17:30	ODB ODB	MUZAFFARPUR POWERGRID ER-I	AMP WORK ICT3 Bay construction work.	JSEB
58	400/220kV, 315MVA ICT-2 AT JSR	05/12/17	09:30	05/12/17	17:30	ODB	POWERGRID ER-I	ICT3 Bay construction work.	JSEB
60	402 bay (Tie Kisanganj-I & BR-2) at Patna 315MVA ICT-II at Ranchi	05/12/17 05/12/17	09:00 10:00	05/12/17 05/12/17	18:00 17:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP work AMP	JSEB
61	400 KV BUS-II at Gaya S/S 400KV Jeerat-Subhasgram Line	05/12/17 05/12/17	08:00 08:00	05/12/17 05/12/17	18:00 17:30	ODB ODB	POWERGRID ER-I ER-II	Bay extension work for Gaya Navinagar Line Replacement of Y Ph LA at Subhasgram end and AMP	WB
	400KV Jeerat-Subhasgram Line 400KV MAITHON-MEJIA 1	05/12/17	08:00	05/12/17	17:00	ODB	ER-II ER-II	Line AMP work	DVC
	765kV Angul-Srikakulam Line -1 Reactor at Angul	05/12/17	10:00	05/12/17	16:00	ODB	ER-II/Odisha/Angul SS	Shutdown required fr collecting Oil sample from M/s ABB kake bushings for oil sample testing	
64							, i i i i i i i i i i i i i i i i i i i	purpose as per the instruction received from the CC/AM and RHQ/BBSR	NLDC

	765kV Angul-Sundargarh Line-2	05/12/17	08:00	05/12/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthtening of line jumpers to prevent swing during high speed wind to avoid	
65	400kV 125MVAR Bus Reactor#1 at Sundargarh	05/12/17	08:00	05/12/17	18:00	ODB	ER-II/Odisha/Sundergarh	tripping in future & improvement of line availability & reliability. Arresting of oil Leakage and AMP	NLDC
66	400 KV Rourkela-Raigarh -I	05/12/17	10:00	05/12/17	17:00	ODB	ER-II/Odisha/Sundargarh	Connection of LILO point with Sundargarh Pooling station	
67	(Old cofiguration : RKL-RGH # CKT-II)					ODB	TLC		NLDC
	400KV Sundargarh-Raigarh Line-I	05/12/17	11:00	05/12/17	15:00	ODB	ER-II/Odisha/Sundargarh TLAM	Replacement of Insulator string at location 638(DA+3)	
68							ER-II/Odisha/BARIPADA		NLDC
69	160 MVA ICT#1 at Baripada	05/12/17	09:00	05/12/17	17:30	ODB	S/S	AMP work and CT junction Box Replacement	GRIDCO
	400kV Barh Patna line -3	05/12/17	09:30	06/12/17	18:00	OCB	BARH	Attending defect of isolator & annual testing of bay equipments.	
70									NLDC
71	NEW CHANDITALA: 400 kv MB-1 with bus coupler & 400 KGPR#1 Bay	05/12/17	07:00	05/12/17	15:00	ODB	WB	Winter Maintenance	
	At Jerat: 400 kv MB 1 with Bus Coupler & 315 MVA Transformer 4	05/12/17	07:00	05/12/17	15:00	ODB	WB	Winter Maintenance	
	220 KV Ara Nadokhar 220 KV PRN-NPRN-2	06/12/17 06/12/17	10:00 09:00	06/12/17 06/12/17	17:00 16:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP Work FOR LINE AND BAY AMP WORK	Bihar
	400 KV BSF -LKS Ckt. I	06/12/17	08:00	06/12/17	18:00	ODB	POWERGRID ER-I	FOR Rectification of Spacer Cap, CC Ring, Jumper N/B/ Arcing horn, Repairing of Conductor Cut etc.	
	Bay-408 (Tie bay of JSR-II and future bay) at 403 bay (Main bay BR-2) at Patna	06/12/17 06/12/17	10:00 09:00	06/12/17 06/12/17	17:00 18:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP AMP work	
	Main bay of 765 KV Dharmjaygarh line -2 (bay 715) at New Ranchi	06/12/17	08:00	06/12/17	18:00	ODB	POWERGRID ER-I	AMP (17-18)	NLDC
	400KV Bus Bar-I at Ranchi	06/12/17	10:00	06/12/17	17:00	ODB	POWERGRID ER-I POWERGRID ER-I	AMP	
80	400kV Pusauli-Nabinagar-II 400 KV PTN - BALIA -2	06/12/17 06/12/17	08:00 09:00	06/12/17 07/12/17	18:00 18:00	ODB ODB	POWERGRID ER-I	To Carry out erection and stringing work of 400kV Daltonganj -II Bay at Pusauli INSULATOR WASHING at loc no 7, 70 to 90, 101 to 111, 135 to 145 etc.	NLDC
	220kV Gaya-Dehri-1 line	06/12/17	09:00	06/12/17	17:00	ODB	POWERGRID ER-I	For BGCIL package extension work.	BIHAR
03	160 MVA ICT#2 at Baripada	06/12/17	09:00	06/12/17	17:30	ODB	ER-II/Odisha/BARIPADA	AMP works	
84	400 KV Rourkela-Sterlite-II (Old cofiguration : RKL-RGH #	06/12/17	10:00	06/12/17	17:00	000	S/S	AVP WORKS Connection of LILO point with Sundargarh Pooling station	GRIDCO
85	400 KV Kourkela-sterlite-II (Old conguration : KKL-KGH # CKT-IV)	00/12/17	10.00	00/12/17	17.00	ODB	ER-II/Odisha/Sundargarh TLC	Announces of the point with Junuar ganne Coming Station	NLDC
	400kV 125MVAR Bus Reactor#2 at Sundargarh	06/12/17	08:00	06/12/17	18:00	ODB	ER-II/Odisha/Sundergarh	Arresting of oil Leakage and AMP	NEDC
		0//00/07		0//40/47	40.00	000	50 H (0 K h + //	For Extending Tertiary of Existing ICT-I (3x105MVA) for STATCOM Projects for Back-up Auxiliary	
87	ICT-I (3x 105 MVA) at Jeypore	06/12/17	09:00	06/12/17	18:00	ODB	ER-II/Odisha/Jeypore	supply, AMP Works & Isolator Retrofitting work (Outage to be booked under Construction Head)	GRIDCO
	765kV Angul-Srikakulam Line -2 Reactor at Angul	06/12/17	10:00	06/12/17	16:00	ODB	ER-II/Odisha/Angul SS	Shutdown required fr collecting Oil sample from M/s ABB kake bushings for oil sample testing purpose as per the instruction received from the CC/AM and RHO/BBSR	
88 89	3x105MVA ICT#2 at Indravati	06/12/17	08:00	09/12/17	18:00	OCB	ER-II/Odisha/Indravati	For changing of R-Ph LV2 Bushing of ICT#2 at OHPC S/Y	NLDC GRIDCO
	400KV 315 MVA ICT-I at Keonjhar 400KV Indravati(PG)-Indravati(OHPC) S/C Line	06/12/17 06/12/17	09:00 08:00	06/12/17 10/12/17	18:00 17:00	ODB ODB	ER-II/Odisha/Keonjhar ER-II/Odisha/Indravati	AMP Activity For laying of OPGW	GRIDCO
92	Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal	06/12/17	09:00	06/12/17	17:00	ODB	ER-II/Odisha/Pandiabili	Tan delta of CT and grading Capacitor of CB	GRIDCO
93	SgTPP: 400kv Tie Bay(41752) of Parulia#2 (41852) New Chanditala: 400kv MB-1 with Bus Coupler & 400kv	06/12/17 06/12/17	07:00	08/12/17 06/12/17	15:00 15:00	OCB ODB	WB WB	0.C.B.	
94 95	Jeerat Bay 220 KV Bus Couple Bay Ara	07/12/17	10:00	07/12/17	17:00	ODB	POWERGRID ER-I	Winter Maintenance AMP Work	Bihar
	220 KV DLK-PRN-1 220KV BUS-I AT NPRN	07/12/17 07/12/17	09:00 10:00	07/12/17 07/12/17	16:00 18:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	FOR LINE AND BAY AMP WORK BUS AMP & TIGHTINING	BIHAR
	200 MVA ICT-1 AT LAKHISARAI	07/12/17	08:00	08/12/17	18:00	ODB	POWERGRID ER-I	Checking of Air Cell.	BIHAR
99	400kV Ranchi -Rkl Ckt-2 400kV BUS - 1 AT JSR	07/12/17 07/12/17	09:00 09:30	07/12/17 07/12/17	17:30 17:30	ODB ODB	POWERGRID ER-I POWERGRID ER-I	Damage insulator replacement work to be carried out. Insulators damaged by miscreants. Bay construction work.	
	765 KV BUS -2 at New Ranchi	07/12/17	08:00	08/12/17	18:00	ODB	POWERGRID ER-I	AMP (17-18)	NLDC
102	400KV MAITHON-MEJIA 2	07/12/17	09:00	07/12/17	17:00	ODB	ER-II	Line AMP work	DVC
	400KV MAITHON-MEJIA 2 66 KV Bus of Gangtok S/s with all elements connected to	07/12/17		07/12/17	17:00 17:30	ODB	ER-II ER-II		
103	400KV MAITHON-MEJIA 2	07/12/17 07/12/17	09:00 09:00	07/12/17	17:30	ODB	ER-II	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgently otherwise during operation criticality may be occurred	
103	400KV MAITHON-MEJIA 2 66 KV Bus of Gangtok S/s with all elements connected to 132 KV system	07/12/17	09:00					All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required	DVC SIKKIM
103 104 105	400KV MAITHON-MEIIA 2 66 KV Bus of Cangtok S/s with all elements connected to 132 KV system 125 MVAR Bus Reactor - 2 AT Allpurduar Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal 400KV BUS REACTOR-1 MAIN BAY (416) AT ANGUL	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	09:00 09:00 08:00 09:00 10:00	07/12/17 08/12/17 07/12/17 07/12/17	17:30 18:00 17:00 18:00	ODB OCB ODB ODB	ER-II ER-II ER-II/Odisha/Pandiabili ER-II/Odisha/Angul SS	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgently otherwise during operation criticality may be occurred Air Cell defective, Air cell to be replaced. CRM, TIMING AND DCRM OF CB AMP Work.	DVC
103 104 105	400KV MAITHON-MEIIA 2 66 KV Bus of Cangtok S/s with all elements connected to 132 KV system 125 MVAR Bus Reactor - 2 AT Alipurduar Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal 400KV BUS REACTOR -1 MAIN BAY (416) AT ANGUL 400KV ROURKELA-SUNDARGARH#2	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	09:00 09:00 08:00 09:00 10:00 09:00	07/12/17 08/12/17 07/12/17 07/12/17 07/12/17	17:30 18:00 17:00 18:00 18:00	ODB OCB ODB ODB ODB	ER-II ER-II ER-II/Odisha/Pandiabili ER-II/Odisha/Angul SS ER-II/Odisha/ROURKELA	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgently otherwise during operation criticality may be occurred Air Cell defective. Air cell to be replaced. CRM. TIMING AND DCRM OF CB AMP Work. Refixing of VD/Spacers/Copper Bond & Jumper Tightening.	DVC SIKKIM
103 104 105 106 107	400KV MAITHON-MEIIA 2 66 KV Bus of Cangtok S/s with all elements connected to 132 KV system 125 MVAR Bus Reactor - 2 AT Allpurduar Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal 400KV BUS REACTOR-1 MAIN BAY (416) AT ANGUL	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	09:00 09:00 08:00 09:00 10:00	07/12/17 08/12/17 07/12/17 07/12/17	17:30 18:00 17:00 18:00	ODB OCB ODB ODB	ER-II ER-II/Odisha/Pandiabili ER-II/Odisha/Angul SS ER-II/Odisha/ROURKELA ER-II/Odisha/BOLANGIR	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgently otherwise during operation criticality may be occurred Air Cell defective, Air cell to be replaced. CRM, TIMING AND DCRM OF CB AMP Work.	DVC SIKKIM
103 104 105 106 107 108	400KV MAITHON-MEIIA 2 66 KV Bus of Gangtok S/s with all elements connected to 132 KV system 125 MVAR Bus Reactor - 2 AT Alipurduar Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal 400KV BOURKELA-SUNDARGARH/#2 400KV ROURKELA-SUNDARGARH/#2 Hypore line reactor S0MVAF (SWitchable) BAY (403R) at	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	09:00 09:00 08:00 09:00 10:00 09:00	07/12/17 08/12/17 07/12/17 07/12/17 07/12/17	17:30 18:00 17:00 18:00 18:00	ODB OCB ODB ODB ODB	ER-II ER-II ER-II/Odisha/Pandiabili ER-II/Odisha/Angul SS ER-II/Odisha/ROURKELA	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgently otherwise during operation criticality may be occurred Air Cell defective. Air cell to be replaced. CRM. TIMING AND DCRM OF CB AMP Work. Refixing of VD/Spacers/Copper Bond & Jumper Tightening.	DVC SIKKIM GRIDCO
103 104 105 106 107 108 109	400KV MAITHON-MEIIA 2 66 KV Bus of Ganglok S/s with all elements connected to 132 KV system 125 MVAR Bus Reactor - 2 AT Alipurduar Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal 400KV BUS REACTOR-1 MAIN BAY (416) AT ANGUL 400KV ROURKELA-SUNDARGARH#2 Jeypore line reactor 50MVAr (Switchable) BAY (403R) at Bolangir Dubri Bus reactor at Dubri end 400KV Kahalgaon-Lakhisarai Line-1	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	09:00 09:00 08:00 09:00 10:00 09:00 08:00 09:30	07/12/17 08/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	17:30 18:00 17:00 18:00 18:00 18:00 17:30	ODB OCS ODB ODB ODB ODB ODB	ER-II ER-II/Odisha/Pandiabilii ER-II/Odisha/Angul SS ER-II/Odisha/ROURKELA ER-II/Odisha/BOLANGIR ER-II/Odisha/BARIPADA S/S KAHALGAON	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgenity otherwise during operation criticality may be occurred Air Coll defective. Air coll to be replaced. CRM, TIMING AND DCRM OF CB AMP Work: Refixing of VD/Spacers/Copper Bond & Jumper Tightening. AMP work of Jeypore-line reactor AMP works PM works & relay testing	DVC SIKKIM
103 104 105 106 107 108 109 110 111	400KV MAITHON-MEIIA 2 66 KV Bus of Ganglok S/s with all elements connected to 132 KV system 125 MVAR Bus Reactor - 2 AT Alipurduar Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal 400KV BUS REACTOR-1 MAIN BAY (416) AT ANGUL 400KV ROURKELA-SUNDARGARH/#2 Jeupore line reactor 50MVAr (Switchable) BAY (403R) at Bolangir Dubri Bus reactor at Dubri end 400KV Kahalgaon-Lakhisarai Line-1 400KV Kahalgaon-Lakhisarai Line-1	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	09:00 09:00 08:00 09:00 10:00 09:00 08:00 09:30 09:30	07/12/17 08/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	17:30 18:00 17:00 18:00 18:00 18:00 17:30 17:30 17:30	ODB OCB ODB ODB ODB ODB ODB ODB OCB	ER-II ER-II ER-II/Odisha/Pandiabilii ER-II/Odisha/Angul SS ER-II/Odisha/ROURKELA ER-II/Odisha/BOLANGIR ER-II/Odisha/BARIPADA S/S KAHALGAON FARAKKA	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgenity otherwise during operation criticality may be occurred Air Cell defective. Air cell to be replaced. CRM, TIMING AND DCRM OF CB AMP Work. Refixing of VD/Spacers/Copper Bond & Jumper Tightening. AMP work of Jeypore-line reactor AMP works PM works & relay testing CVT Replacement	DVC SIKKIM GRIDCO
103 104 105 106 107 108 109 110 110 111 112 113	400KV MAITHON-MEIIA 2 66 KV Bus of Gangtok S/s with all elements connected to 132 KV system 125 MVAR Bus Reactor - 2 AT Alipurduar Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal 400KV BUS REACTOR-1 MANI BAY (416), AT ANGUL 400KV ROURKELA-SUNDARGARH#2 Jeypore line reactor 50MVAr (Switchable) BAY (403R) at Bolangir Dubri Bus reactor at Dubri end 400KV K Mahalgaon-Lakhisarai Line-1 400KV K Mahalgaon-Lakhisarai Line-1 8KTPP 400 kv MB 1 EKTPP 400 kv MB 1	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	09:00 09:00 08:00 09:00 10:00 09:00 09:00 09:30 09:30 09:30 09:00 07:00	07/12/17 08/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	17:30 18:00 17:00 18:00 18:00 18:00 17:30 17:30 17:30 17:30 16:00 15:00	ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II/Odisha/Pandiabilii ER-II/Odisha/Angul S ER-II/Odisha/ROURKELA ER-II/Odisha/BOLANGIR ER-II/Odisha/BARIPADA S/S KAHALGAON FARAKKA WB WB	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgenity otherwise during operation criticality may be occurred Air Cell defective, Air cell to be replaced. CRM, TIMING AND DCRM OF CB AMP Work. Refixing of VD/Spacers/Copper Bond & Jumper Tightening. AMP work of Jeypore-line reactor AMP works PM works & relay testing CVT Replacement Winter Maintenance Winter Maintenance	DVC SIKKIM GRIDCO GRIDCO GRIDCO
103 104 105 106 107 108 109 110 111 111 111 111 111 111 114 115	400KV MAITHON-MEIIA 2 66 KV Bus of Gangtok S/s with all elements connected to 132 KV system 125 MVAR Bus Reactor - 2 AT Allpurduar Main bay of Mendrsal - Pandiabili CKT-1 at Mendhasal 400KV BOURKELA-SUNDARGARH/#2 400KV ROURKELA-SUNDARGARH/#2 Weypore line reactor 50MVAr (Switchable) BAY (403R) at Bolangir Dubri Bus reactor at Dubri end 400KV Kahalgaon-Lakhisarai Line-1 400KV KAHALBAN BAN MITANA SAN SAN SAN SAN SAN SAN SAN SAN SAN	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17	09:00 09:00 08:00 09:00 10:00 09:00 09:00 09:30 09:30 09:30 09:30 09:30 09:00	07/12/17 08/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 08/12/17 08/12/17	17:30 18:00 17:00 18:00 18:00 18:00 17:30 17:30 17:30 16:00 15:00 17:00 16:00 16:00	OD8 OC8 OD8 OD8 OD8 OD8 OD8 OD8 OD8 OD8 OD8 OD	ER-II ER-II ER-II/Odisha/Pandiabilii ER-II/Odisha/Pandiabilii ER-II/Odisha/RANGURKELA ER-II/Odisha/BALANGIR ER-II ER-II/Odisha/BALANGIR ER-II ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha/BALANGIR ER-II/Odisha	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgently otherwise during operation criticality may be occurred Air Coll defective. Air coll to be replaced. CRM, TIMING AND DCRM OF CB AMP Work. Refixing of VD/Spacers/Copper Bond & Jumper Tightening. AMP work of Jeypore-line reactor AMP works PM works & relay testing CVT Replacement Winter Maintenance Winter Maintenance AMP Work.	DVC SIKKIM GRIDCO GRIDCO May be taken alog with Powergrid
103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	400KV MAITHON-MEIIA 2 66 KV Bus of Cangtok S/s with all elements connected to 132 KV system 132 KV system 132 KV Sustem Reactor - 2 AT Alipurduar Main bay of Mendhsal - Pandiabili CKT-1 at Mendhasal 400KV BUS REACTOR-1 MAIN BAY (416) AT ANGUL 400KV ROURKELA-SUNDARGARH/2 Jeypore line reactor 50MVAr (Switchable) BAY (403R) at Bolangir Dubri Bus reactor at Dubri end 400KV F&Bahagaon-Lakhisarai Line-1 400KV F&BAHAGAON 400KV BAS 2.47 LINE AND	07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 08/12/17 08/12/17	09:00 09:00 09:00 09:00 10:00 09:00 09:30 09:30 09:30 09:30 07:00 07:00 07:00 07:00 07:00 07:00 07:00 07:00 09:30	07/12/17 08/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 07/12/17 08/12/17 08/12/17 08/12/17	17:30 18:00 17:00 18:00 18:00 18:00 17:30 17:30 17:30 17:00 15:00 15:00 15:00 17:30 17:30	ODB OCS ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II/Odisha/Pandiabili ER-II/Odisha/Pandiabili ER-II/Odisha/RAngul S ER-II/Odisha/BARIPADA S/S KAHALGAON FARAKKA WB WB POWERGRID ER-I POWERGRID ER-I POWERGRID ER-I POWERGRID ER-I POWERGRID ER-I	All bus isolator AMP and 66 KV Bus AMP, proper alignment checking of all Bus isolator is required very urgently otherwise during operation crticality may be occurred Air Cell defective, Air cell to be replaced. CRM, TIMINS AND DCRM OF CB AMP Work. Refixing of VD/Spacers/Copper Bond & Jumper Tightening. AMP work of Jeypore-line reactor AMP works relay testing CVT Replacement Winter Maintenance Winter Maintenance Winter Maintenance MMP Work FOR LINE AND BAY AMP WORK BUS AMP & TIGHTINING Bus construction work.	DVC SIKKIM GRIDCO GRIDCO GRIDCO
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D Description Norm										
Image: state Norm	141 4	00KV ROURKELA-RAIGARH#2	09/12/17	09:00	09/12/17	18:00	ODB	ER-II/Odisha/ROURKELA	Retrofitting & Commissioning of its Main CB A/R Relay.	NLDC
Number of the sector	3	15MVA ICT-L at Baripada	09/12/17	09:30	09/12/17	17:30	ODB		AMP works	
Normal Process and	142									
No. No. <td>N</td> <td>EW CHANDITALA: 400 MB-2 & B/Coupler & 400 kv</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Winter Maintenance</td> <td></td>	N	EW CHANDITALA: 400 MB-2 & B/Coupler & 400 kv							Winter Maintenance	
Best of the sector of	144 H	GPR# 2 bay					OCP			Dibar
	146 4	00KV QUAD RNC-NRNC Ckt -4	10/12/17	09:00	10/12/17	18:00	ODB	POWERGRID ER-I	for replacement of insualtors damged by micreants at loc 69;74	
Image: state in the s										DVC
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	149 2	10 BAY(220kv side 160MVA ICT#1) at Baripada	10/12/17	09:00	10/12/17	17:30	ODB		AMP work	
Image: state in the s			10/12/17	08:00	12/12/17	17:00	OCB			
M M								ILC		NLDC
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	7	65KV S/C Angul-Sundargarh Line-II	10/12/17	09:00	10/12/17	17:00	ODB		Replacement of broken Glass Insulators at Loc. 485, B phase of 765KV S/C Angul-Sundargarh-II	
D D	151									NLDC
NUMBER NUMBER NUMBER NUMBER <td>152 ^T</td> <td>ie bay of Pandiabili-1&2 at Mendhasal</td> <td>10/12/17</td> <td>09:00</td> <td>10/12/17</td> <td>17:00</td> <td>ODB</td> <td>ER-II/Odisha/Pandiabili</td> <td>Tan delta of CT and grading Capacitor of CB</td> <td></td>	152 ^T	ie bay of Pandiabili-1&2 at Mendhasal	10/12/17	09:00	10/12/17	17:00	ODB	ER-II/Odisha/Pandiabili	Tan delta of CT and grading Capacitor of CB	
NUMBER NUMBER NUMBER NUMBER <td></td>										
Non- Non- <th< td=""><td>4</td><td>00 KV Rengali Indravati Line</td><td>10/12/17</td><td>07:00</td><td>16/12/17</td><td>18:00</td><td>ODB</td><td>ER-II/Odisha/BOLANGIR</td><td>Replacement of Porcelain insulators with Polymer insulators in major crossings at Locations Bolangir-538,539,564,565,590,591,676,677,681,682,741,742,743,747,748,749,750,751,752,753</td><td></td></th<>	4	00 KV Rengali Indravati Line	10/12/17	07:00	16/12/17	18:00	ODB	ER-II/Odisha/BOLANGIR	Replacement of Porcelain insulators with Polymer insulators in major crossings at Locations Bolangir-538,539,564,565,590,591,676,677,681,682,741,742,743,747,748,749,750,751,752,753	
Processor Processor <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td></t<>									•	
No. Status No. Sta		00ks Daharana Farahla & Daharana Laur (J.H.O.					ODR			NLDC
Image: state			10/12/17	06:00	11/12/17	16:00		WB	O.D.BCrossing of 400kv SgTPP-Gokarna D/C	
Non-statement and any statement any statement and any statement any statement any statement any statement and any statement any state			10/12/17	07:00	10/12/17	15:00	ODB	WB	Winter Maintenance	
Normal Part Part Part Part Part Part Part Part	156 2	20 KV BUS COUPLER BAY AT PRN							FOR AMP WORK	
B B D				10:00		18:00	ODB			BIHAR/NLDC
No. No. <td>4</td> <td>00 kV Kahalgaon-Barh CKT - I</td> <td></td> <td>08:00</td> <td></td> <td>18:00</td> <td>ODB</td> <td></td> <td></td> <td></td>	4	00 kV Kahalgaon-Barh CKT - I		08:00		18:00	ODB			
IN IN<	158 159 7	65 KV B/R-II at New Ranchi					ODB		AMP (17-18)	NLDC
Image: Provide and set in the se								POWERGRID ER-I		
Image: state	7	65/400kV, 1500MVA, ICT AT SASARAM	11/12/17	09:00	13/12/17	18:00	OCB	STEROND EN		
INDER INDER <th< td=""><td></td><td></td><td></td><td>20.00</td><td></td><td>. 5.00</td><td>000</td><td></td><td></td><td>NLDC</td></th<>				20.00		. 5.00	000			NLDC
Image: Note: Control in the second		00KV Berhampore Farakka Tie Bay (405) AT BERHAMPUR	11/12/17	10:00	11/12/17	17:00	ODB	ER-II		
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	163 2	20 KV Binaguri-Siliguri 1	11/12/17	09:00	11/12/17	17:00	ODB	ER-II	NEW VERSION NUMERICAL RELAY REPLACEMENT AT BINAGURI (FROM REL 521 TO REL 670)	
Indicate and interms Interms <td></td> <td></td> <td>11/12/17</td> <td>09:00</td> <td>15/12/17</td> <td></td> <td>ODB</td> <td>ER-II ED-II</td> <td>BHEL CB Hydraulic perating mechanism overhauling</td> <td></td>			11/12/17	09:00	15/12/17		ODB	ER-II ED-II	BHEL CB Hydraulic perating mechanism overhauling	
Nome Nome <t< td=""><td>т</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	т									
Image of the second s	100									GRIDCO
Image: Proceedings Image:	167 A	NGUL						-		NLDC
Her Her <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ER-II/Odisha/Indravati ER-II/Odisha/Jeypore</td> <td></td> <td></td>								ER-II/Odisha/Indravati ER-II/Odisha/Jeypore		
Non-Wire States 4 Section (2014) Non-Wire States 4 Secti	170	00KV ROURKELA-CHAIBASA#1	11/12/17	09:00	12/12/17	18:00	OCB		Retrofitting & Commissioning of its Main & Tie CB A/R Relays.	
Image: state in the s	T		11/12/17	00.60	11/12/17	13:00	ODB	FR-II/Odisba/Sundergarb	To rectification of CSD in 705 CB	
11 20%										NLDC
D D				08:00		18:00				
Image: Construct South Control Image: Contro								EP.II/Odicha/BADIDADA		
IN NOME OF SERVE WED KY DEX 1000 0000 Wed Mode Mode Mode Mode Mode Mode Mode Mo		04 BAY(132kv side 160MVA ICT#1) at Baripada	11/12/17	09:00	11/12/17	17:30	ODB		AMP work	
Image: 17 00000000000000000000000000000000000	175 E									
image: i										
Image										
Image: Note:	180 E	ay - 413 (Main bay of KGP-I) AT Chaibasa	12/12/17	10:00	12/12/17	17:00	ODB	POWERGRID ER-I	AMP	
Image: Proceedings of the section of the sectin the section of the section of the section of the sectio	181 4	08 bay (Tie ICT-2 & Future) at Patna 65/400kv 3X500 MVA ICT-I at New Ranchi								NLDC
18 40% <td>102</td> <td>00KV/ Ranch- Rourkela-I</td> <td>12/12/17</td> <td>10:00</td> <td>12/12/17</td> <td>17:00</td> <td>ODB</td> <td>POWERGRID ER-I</td> <td>For Changing of numbered inculator in Transmission Line at Les no 147, 90</td> <td></td>	102	00KV/ Ranch- Rourkela-I	12/12/17	10:00	12/12/17	17:00	ODB	POWERGRID ER-I	For Changing of numbered inculator in Transmission Line at Les no 147, 90	
Image: Sec: Sec: Sec: Sec: Sec: Sec: Sec: Se			12/12/17	09:00	12/12/17	18:00	ODB			
Image Image <th< td=""><td>185 4</td><td>00 KV BSF - VNS-1</td><td>12/12/17</td><td>09:00</td><td>13/12/17</td><td>18:00</td><td>ODB</td><td>POWERGRID ER-I</td><td>INSULATOR WASHING at loc no 116, 18, 29-30, 113, 152-153 etc5.6.12,13,15,21,21,25,26,27 etc.</td><td>NLDC</td></th<>	185 4	00 KV BSF - VNS-1	12/12/17	09:00	13/12/17	18:00	ODB	POWERGRID ER-I	INSULATOR WASHING at loc no 116, 18, 29-30, 113, 152-153 etc5.6.12,13,15,21,21,25,26,27 etc.	NLDC
Biology (bard) ready (bard) ready (bard) ready (bard) 17/17/1 990 12/17/1 17/10 10/10 12/12/17 18/10			12/12/17		12/12/17		ODB		For replacement of insulators damaged by miscreant	10/0
Image Image <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>FOR LATEST VERSION NUMERICAL RELAY INSTALLATION</td><td></td></th<>									FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	
198 4000 VS CS optigities Association 17/12/1 1000 12/12/1 <th< td=""><td>4</td><td></td><td>12/12/17</td><td>08:00</td><td>13/12/17</td><td>18:00</td><td>OCB</td><td>ER-II</td><td></td><td></td></th<>	4		12/12/17	08:00	13/12/17	18:00	OCB	ER-II		
Adv W Beel at Barpads 12/12/7 Res 30 12/12/7 17.20 OOB ER N/Odshu/BR/BAR/MAR For GG Say EXTN works(for reconnecting jumpers to GG Bus-II) Number Signal	190 4	00 kv S/C Sagardighi-Subhasgram line					ODB		TLAMP	
Hole Hole Hole Hole Hole Frage For Earlier For E	191 4	UU KV FARAKKA-GOKARNA-I & ASSOCIATED LR	12/12/17	08:00	13/12/17	17:30	ODB		FOR RETUNING OF CSD	WB
The Bay 705 of 756XP BR # # 255400KV ICT-Hall 12/12/17 0.900 12/12/17 13.00 0.008 ER-II/Odishu/Sundergant To rectification of CSD in 702 CB NuDC 194 315MAX ET # 2 al Appore 12/12/17 9.30 0.008 ER-II/Odishu/Sundergant To rectification of CSD in 702 CB Rel CRIAD		00 kV Bus-II at Baripada	12/12/17	08:30	12/12/17	17:30	ODB		For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II)	
193 Subscription 12/12/17 100 ODE FAI/Odishu/spore For AMP Works of 315M/A CT22 NUC NUC 195 7624/V3 MURGRAHT ILLES 12/12/17 1000 12/12/17 1800 ODB FAI/Odishu/spore For AMP Works of 315M/A CT22 NUC NUC 196 400KY Rengal-Indravathi Line. 12/12/17 1800 ODB FAI/Odishu/spore For AMP Works of 315M/A CT22 NUC NUC 196 400KY Rengal-Indravathi Line. 12/12/17 1800 ODB FAI/Odishu/spore For AMP Works of 315M/A CT22 NUC NUC 196 400KY SC Indravath Rengal line 12/12/17 1800 ODB FAI/Odishu/spore For AMP Works of 315M/A FCT2 NUC NUC 196 400KY SC Indravath Rengal line 12/12/17 1000 12/12/17 1000 NUE For AMP Works of 315M/A FCT2 NUE NUE NUE 196 400KY SC Indravath Rengal line (work Coostruction) NUE NUE NUE NUE NUE NUE 196 100 X/L T2 1000	T		12/12/17	09.00	12/12/17	13:00	ODR	FR-II/Odisha/Sundergarb	To rectification of CSD in 702 CB	
195 Z65V SUNCERGARH LINE: 2 MAN BAY (706) AT ANGU 12/12/17 100 12/12/17 18:00 ODE EH/Odisha/Angul SS AMP Work. Machine Sunction Sunctin Sunction Sunctin Sunction Sunction Sunction Sunctin								Ŭ		
Instructive market in Life. ID / 21 / 1 ISOU Outs Cell/Oblight (Life) It ipping in future & improvement of line availability & reliability NLDC 100K Versite 400KV S/C Indravati-Rengal line 12/12/1 0.00 66/12/11 18.00 ODB REN/Oblight (Angul-Sandargarh/384 Line at crossing of Ind-Rengal line (under Construction) NLDC 1097 1094 10/12/1 10.00 13/12/11 17.00 ODB FARAUXA Reactor & Relay Testing Index market (Ind-Rengal line (under Construction) NLDC 1091 10/12/1 10.00 13/12/11 17.00 ODB FARAUXA Reactor & Relay Testing Index market (Ind-Rengal Line) Index market (Ind-Rengal Line) Index market (Ind-Rengal Line) Index market (Ind-Rengal Line) Index market (Index market (Ind	195 7	65KV SUNDERGARH LINE-2 MAIN BAY (706) AT ANGUL						ER-II/Odisha/Angul SS		
196 C		00kV Rengali-Indravathi Line.	12/12/17	08:00	12/12/17	18:00	ODB	ER-II/Odisha/Angul TLAM		
BODY SUL INDIVISION_ ENGINE LZ/L/T USU INSUC 11 ISOU ODB Rarakhol (Studioom shall be taken if not availed in Nov2017) Nov2017 No	196									NLDC
19/1 19/2 10/2 <th< td=""><td></td><td>00KV S/C Indravati-Rengali line</td><td>12/12/17</td><td>08:00</td><td>16/12/17</td><td>18:00</td><td>ODB</td><td></td><td></td><td>NLDC</td></th<>		00KV S/C Indravati-Rengali line	12/12/17	08:00	16/12/17	18:00	ODB			NLDC
NEW CHANDITALX- 400 kv MB-2 with Bus coupler & 191 H5 MVA TR22 1/2/17 07:00 1/2/17 15:00 ODB WB Winter Maintenance Image: Comparison of the c	198 4		12/12/17	10:00	13/12/17	17:00				
2200 400 KV Kharagpur-Chaibsas akt I 12/12/17 07.00 12/12/17 15.00 ODB With Winter Maintenance Image: Maintenance	N	EW CHANDITALA: 400 kv MB-2 with Bus coupler &								
201 AMP Work AMP Work AMP Work AMP Mork 202 400KV NPRN- MUZ-II 13/12/17 10:00 13/12/17 18:00 ODB POWERGRID ER-I BAV MMP Image: Comparison of the c			12/12/17	07:00	12/12/17	15:00	ODB	WB		
201 AMP Work AMP Work AMP Work AMP Mork 202 400KV NPRN- MUZ-II 13/12/17 10:00 13/12/17 18:00 ODB POWERGRID ER-I BAV MMP Image: Comparison of the c	1	60 MVA ICT 3	13/12/17	09:30	13/12/17	17:00	ODB	POWERGRID ER-I		
2013 Bay - 414 (The bay of KGP-1 and Future) at chalbasa 13/12/17 10:00 13/12/17 17:00 ODB POWERGRID ER-1 AMP 204 416 (Main bay Ballia-2) at Patna 13/12/17 0:00 13/12/17 18:00 ODB POWERGRID ER-1 AMP work 204 406 (Main bay Ballia-2) at Patna 13/12/17 0:00 13/12/17 17:00 ODB POWERGRID ER-1 AMP work 205 400KV Ranch-Rourkela-II 13/12/17 10:00 13/12/17 17:00 ODB POWERGRID ER-1 for Changing of punchred insulator in transmission Line at Lcc no 147, 89 For replacement of insulators damaged by miscreant 205 400 KV Mancho-Gaya - Zime 13/12/17 10:00 13/12/17 17:00 ODB POWERGRID ER-1 For replacement of insulators damaged by miscreant 208 600 MVAR BUS REACTOR AT BANKA SS 13/12/17 17:00 ODB Refl FOR LATEST VERSION NUMERCAL RELAV INSTALLATION SIKKIM 209 200 KV Binaguri-Siliguri 2 13/12/17 0:00 13/12/17 17:00 ODB ER-II FOR LATEST VERSION NUMERCAL RELAV INSTALLATION NLOC 210 400 KV MALDA-PURKA-I 13/12/17	201									
Optimized 13/12/17 10:00 13/12/17 17:00 ODB POWERGRID ER-I For Changing of purched insulator in Transmission Line at Lcc no 147, 89 2064 400kV Maithon-Gaya-2 line 13/12/17 10:00 13/12/17 17:00 ODB POWERGRID ER-I For Changing of purched insulator in Transmission Line at Lcc no 147, 89 2078 500 MVAR BUS REACTOR AT BANKA SS 13/12/17 10:00 13/12/17 10:00 D3/12/17 17:30 DDB FR/II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION Sikklim 2019 D6 KW MADA-PURKEAI 13/12/17 0:00 13/12/17 17:30 ODB ER-II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION Sikklim 2014 KW MADA-PURKEAI 13/12/17 0:00 13/12/17 17:30 ODB ER-II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION NLDC 2114 KW MADA-PURKEAI 13/12/17	203 E	ay - 414 (Tie bay of KGP-I and Future) at chaibasa	13/12/17	10:00	13/12/17	17:00	ODB	POWERGRID ER-I	AMP	
Image: Signal of Signal Sign									AMP work	
2012 0.0 MVAR BUS REACTOR AT BANKA SS 13/12/17 10:00 13/12/17 10:00 13/12/17 10:00 13/12/17 10:00 13/12/17 10:00 13/12/17 10:00 13/12/17 10:00 13/12/17 10:00 13/12/17 10:00 13/12/17 17:30 ODB Revise (RGRID ER-I) AMP work MAP work <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										
2026 64W Tadong (Line 2) Feeder 13/12/17 09:00 13/12/17 17:00 ODB FR-II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION SIKKIM 2020 220 K Managur-Silgura/ 13/12/17 09:00 13/12/17 17:00 ODB FR-II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION SIKKIM 210 20 K M MAL DA-PURKEAL 13/12/17 06:00 13/12/17 17:30 ODB FR-II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION SIKKIM 210 400 KV MAL DA-PURKEAL 13/12/17 06:00 13/12/17 17:30 ODB FR-II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION NLDC 211 ANGUL 13/12/17 06:00 13/12/17 17:30 ODB FR-II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION NLDC 211 ANGUL 13/12/17 10:00 13/12/17 17:30 ODB FR-II FOR LATEST VERSION NUMERICAL RELAY INSTALLATION NLDC 213 400K V Regain Keonjhar Main Bay-401 at Rengali 13/12/17 10:00 13/12/17 17:00 OCB FR-II/Odisha/Rongalis For CB Mechanism overhauling work a	206 4 207 8	00kV Maithon-Gaya-2 line 0 MVAR BUS REACTOR AT BANKA SS								
210 00 vV MLDA-PUNKAL 13/12/17 08.00 13/12/17 17.30 00.00 R-RI FOR LATEST VERSION NUMERICAL RELAY INSTALLATION 765KV SRMKNLM MLINE'1 & FUTURE TIE BAY (729) AT 13/12/17 10.00 13/12/17 17.30 00.00 R-RI FOR LATEST VERSION NUMERICAL RELAY INSTALLATION NLDC 211 ANCUL 13/12/17 10.00 13/12/17 17.00 0008 R-RI/Odisha/Angul S AMP Work. NLDC 212 ANCUL 040VK Rengali-Keonjhar Main Bay-401 at Rengali 13/12/17 09.00 16/12/17 17.00 OCB R-II/Odisha/Rengali For CB Mechanism overhaulling work and AMP. 31 S15WA (LT#1 at Rourkela 13/12/17 09.00 16/12/17 17.00 OCB R-II/Odisha/Rougl S- For CB Mechanism overhaulling work and AMP. 31 Bistovia (LT#1 at Rourkela 13/12/17 09.00 16/12/17 18.00 OCB R-II/Odisha/ROURKELA For attending the oil mix up problem of CLTC in 315 MVA ICT#1 and to arrest oil leakage problem from tan detat test tap assemblies of its bushings. GRIDCO 214 Te Bay-705 of 765KV ICT-II & BR-II at Sundargarh 13/12/17 09.00 13/12/17 13.00 ODB	208 6	6KV Tadong (Line#2) Feeder	13/12/17	09:00	13/12/17	17:30	ODB	ER-II		SIKKIM
211 MAGUL 13/12/17 10:00 13/12/17 10:00 00:00 re-riv/original/Anguls NAME WORK NAME WORK NLDC 212 4004V Rengali-Keonjhar Main Bay-401 at Rengali 13/12/17 09:00 16/12/17 17:00 OCEB ER-II/Odisha/Rengali For CB Mechanism overhaulting work and AMP. 313 313 31/12/17 09:00 16/12/17 17:00 OCEB ER-II/Odisha/Rengali For CB Mechanism overhaulting work and AMP. 313 13/12/17 09:00 16/12/17 18:00 OCEB ER-II/Odisha/ROURKLA For CB Mechanism overhaulting work and AMP. 313 116 09:00 16/12/17 18:00 OCEB ER-II/Odisha/ROURKLA For attending the oil mix up problem of OLTC in 315 MVA ICT#1 and to arrest oil leakage problem from tan delta test tap assemblies of its bushings. CRIDCO 313 116 13/12/17 09:00 13/12/17 13:00 ODB Er/I/Odisha/Soudergarh Rets of capacitance violated GC under construction punch point NLDC	210 4	00 KV MALDA-PURNEA-I							FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	
212 400kV Rengali-Keonjhar Main Bay-401 at Rengali 13/12/17 09.00 16/12/17 17.00 OCCB ER-II/Odisha/Rengali For CB Mechanism overhaudling work and AMP. Image: Comparison of CLTC in 315 MVA ICT#1 and to arrest oil leakage problem for CLTC in 315 MVA ICT#1 and to arrest oil leakage problem for tan defat test tap assemblies of fits bushings. For CB Mechanism overhaudling work and AMP.			13/12/17	10:00	13/12/17	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work.	NLDC
213 214 DBW/R L F1 at ROUKRag 13/12/17 09:00 10/12/17 18:00 OCD re-fir/Odd1a/ROUKRAF from tan delate set tap assemblies of its bushings. GRIDCO 214 Tie Bay-705 of 765KV ICT-II & BR-II at Sundargarh 13/12/17 09:00 13/12/17 13:00 ODB ER-II/Odisha/Sundergarh Retest of capacitance violated GC under construction punch point NLDC			13/12/17	09:00	16/12/17	17:00	OCB	ER-II/Odisha/Rengali	For CB Mechanism overhaulling work and AMP.	
213 Control and end at Set of TeSKV ICT-II & BR-II at Sundargarh 13/12/17 09:00 13/12/17 13:00 ODB Er-II/Odisha/Sundargarh Retes of capacitance violated GC under construction punch point NLDC	3	15MVA ICT#1 at Rourkela	13/12/17	09:00	16/12/17	18:00	OCB	ER-II/Odisha/ROURKELA		
Z14 NLDC										GRIDCO
213/400KV Keonjhar-Barnpada Line 13/12/17 09:00 13/12/17 18:00 ODB [R-II/Odisha/Keonjhar Tightening of Vibration Damper & AMP work	214							-		NLDC
	215 4	UUKV Keonjhar-Baripada Line	13/12/17	09:00	13/12/17	18:00	ODB	EK-II/Odisha/Keonjhar	Lightening of Vibration Damper & AMP work	

								i
400 kV Bus-I at Baripada	13/12/17	08:30	13/12/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	For GIS bay EXTN works(for isolation of GIS Bus-I)	
216								
400 kV Bay 413CB(GIS) at Baripada	13/12/17	08:30	22/12/17	17:30	OCB	ER-II/Odisha/BARIPADA S/S	For GIS Bus-I ext. works	
217 NEW CHANDITALA: 400kv MB-1 & B/Coupler & 80	13/12/17	07:00	13/12/17	15:00	ODB	WB		
218 MVAR Bus Reactor 219 220 KV Ara Khagaul 1	13/12/17	10:00	13/12/17	17:00	ODB		Winter Maintenance AMP Work	Bihar
220 400KV NPRN - KISHANGANJ-II	14/12/17	10:00	14/12/17	18:00	ODB	POWERGRID ER-I	LINE BAY AMP & TIGHTING	bindi
221 80 MVAR Bus Reactor AT LAKHISARAI 222 40152CB (Tie Bay of ICT2 & BR2)	14/12/17 14/12/17	08:00 09:30	15/12/17 15/12/17	18:00 17:30	ODB OCB	POWERGRID ER-I POWERGRID ER-I	For checking/rectification of alignment of Bus Reactor Isolator Pnumatic Drive unit overhauling work	
223 Bay - 416 (Tie bay of KGP-I and Future) at Chaibasa	14/12/17	10:00	14/12/17	17:00	ODB	POWERGRID ER-I POWERGRID ER-I	AMP	
Tie bay 765KV ICT-2 & Dharmjaygarh line-I (bay 705) at 224 New Ranchi	14/12/17	08:00	14/12/17	18:00	ODB		AMP (17-18)	NLDC
225 80MVAR Bus Reactor at Ranchi 226 400kV Tie bay of Nabinagar-II and Daltonganj-II @	14/12/17 14/12/17	10:00 09:00	14/12/17 14/12/17	17:00 21:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP AMP	
						POWERGRID ER-I		
227 400 KV BSF - VNS-1 228 50 MVAR L/R OF 400KV BSF-I AT BANKA SS	14/12/17 14/12/17	09:00 10:00	15/12/17 14/12/17	18:00 16:00	ODB ODB	POWERGRID ER-I	INSULATOR WASHING at loc no 116, 18, 29-30, 113, 152-153 etc5,6,12,13,15,21,21,25,26,27 etc. AMP work	NLDC
229 220KV New Town-SUBHASGRAM Line 230 500MVA, ICT-1 at Maithon SS	14/12/17 14/12/17	08:00 10:00	14/12/17 14/12/17	17:30 17:30	ODB ODB	ER-II ER-II	AMP of bay equipments Onload testing of CSD and validation of OFS	WB DVC
231 66KV Lagyap (Line#3) Feeder	14/12/17	09:00	14/12/17	17:30	ODB	ER-II	FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	SIKKIM
232 400 KV FARAKKA-GOKARNA-II 233 404BAY (Kharagpur main Bay) at Baripada	14/12/17 14/12/17	08:00	14/12/17 14/12/17	17:30 17:30	ODB ODB	ER-II ER-II/Odisha/BARIPADA S	FOR LINE AMP CT junction Box Replacement	WB
Main Bay-707 of 765KV Sundargarh-Angul Line-II at	14/12/17	09:00	14/12/17	13:00	ODB		Retest of capacitance violated GC under construction punch point	All DC
234 Sundargarh 235 765KV SRIKAKULAM LINE-1 MAIN BAY (730) AT ANGUL	14/12/17	10:00	14/12/17	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work.	NLDC NLDC
765kV Angul-Srikakulam Line-2	14/12/17	08:00	14/12/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid	
236						-	tripping in future & improvement of line availability & reliability	NLDC
237 400 kV Jeypore-Indravati S/C Line	14/12/17	06:00	14/12/17	18:00	ODB	ER-II/Odisha/Jeypore	For Replacement of PID Defective Insulators in Jey-Ivt Line	NLDC
765KV S/C Angul-Sundargarh Line-I	14/12/17	09:00	14/12/17	17:00	ODB	ER-II/Odisha/Sundargarh TLAM	Replacement of broken Glass Insulators at Loc. 271, Y phase of 765KV S/C Angul-Sundargarh-I	NI DC
238 400kV Barh Patna line -4	14/12/17	09:30	15/12/17	18:00	OCB	BARH	Attending defect of isolator & annual testing of bay equipments.	NLDC
239				15.5				NLDC
240 400KV Kahalgaon-Farakka Line-4 241 400KV Fkk-Malda Line-1	14/12/17 14/12/17	09:30 09:00	14/12/17 15/12/17	17:30 17:00	ODB ODB	KAHALGAON FARAKKA	PM works & relay testing Relay & CT testing	
242 400 KV Kharagpur-Chaibasa ckt 2	14/12/17 15/12/17	07:00	14/12/17 15/12/17	15:00 17:00	ODB	WB POWERGRID ER-I	Winter Maintenance AMP Work	Bihar
243 220 KV Ara Khagaul 2 244 160 MVA ICT#2 AT PRN	15/12/17	10:00 09:00	15/12/17 23/12/17	17:00 16:00	ODB OCB	POWERGRID ER-I	AMP Work GIS WORK AND AMP WORK AS PER SCHEDULE	Bihar Bihar
245 MAIN BAY OF 125 MVAR BUS REACTOR-II AT NPRN 246 Bay - 417 (Tie bay of KGP-II and Future) at Chaibasa	15/12/17 15/12/17	10:00 10:00	15/12/17 15/12/17	18:00 17:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	BAY AMP AMP	
247 417 (Tie of Barh-I & Ballia-2) at Patna	15/12/17	09:00	15/12/17	18:00	ODB	POWERGRID ER-I	AMP work	
248 Main bay 765 KV B/R-2 (bay 707) at New Ranchi 249 50 MVAr Biharsharif -IV L/R Bay at Pusauli	15/12/17 15/12/17	08:00 09:00	15/12/17 15/12/17	18:00 18:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP (17-18) AMP	NLDC
250 220 KV BUS-I at Gaya S/S	15/12/17	08:00	16/12/17	18:00	ODB	POWERGRID ER-I	For isolator rectification work under S/S extn. Package	BIHAR
251 50 MVAR L/R OF 400KV BSF-II AT BANKA SS 252 500MVA, ICT-2 at Maithon SS	15/12/17 15/12/17	10:00 10:00	15/12/17 15/12/17	16:00 17:30	ODB ODB	POWERGRID ER-I ER-II	AMP work Onload testing of CSD and validation of OFS	DVC
253 220 KV Binaguri-Birpara -2 254 160 MVA ICT-I AT SILIGURI	15/12/17 15/12/17	09:00 08:00	15/12/17 15/12/17	17:00 17:30	ODB ODB	ER-II ER-II	VARIABLE FREQUENCY TAN DELTA	WB
255 400 KV MALDA-PURNEA-II ALONG WITH LINE REACTOR	15/12/17	08:00	15/12/17	17:30	ODB	ER-II	FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	
256 765KV SRIKAKULAM LINE REACTOR-1 BAY (730R) AT	15/12/17	10:00	15/12/17	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work.	NLDC
257 Main Bay-401 of 400KV Raigarh Line-II at Sundargarh	15/12/17	09:00	15/12/17	13:00	ODB	ER-II/Odisha/Sundergarh	Replacement of Auxiliary switch in 400KV CB	
Tie Bay-402 of 400KV Raigarh Line-II & 765/400KV ICT-I at 258 Sundargarh	15/12/17	02:00	15/12/17	18:00	ODB	ER-II/Odisha/Sundergarh	Replacement of Auxiliary switch in 400KV CB	
765 KV D/C Angul - Jharsuguda Transmission line (Ckt-I &	15/12/17	08:00	24/12/17	17:00	OCB	ER-II/Odisha/Sundargarh	Swapping arrangement : Stringing work of 765KV Angul - Jharsuguda Ckt-III & IV with Ckt-I & II	
1) 259						TLC		NLDC
765KV Dharamjoygarh Line-I	15/12/17	09:00	15/12/17	17:00	ODB	ER-II/Odisha/Sundargarh	Replacement of broken Glass Insulators at Loc. 119 and rigid spacer to be orderly placed in the span	
260	13/12/17	09.00	13/12/17	17.00	ODB	TLAM	of 87-88 of 765KV S/C Sundargarh-Dharamjoygarh line-I	NLDC
261 400KV Keonjhar-Rengali Line	15/12/17	09:00	15/12/17	18:00	ODB	ER-II/Odisha/Keonjhar	Tightening of Vibration Damper, replacement of Bundle spacer & AMP work	
262 405BAY (Tie Bay of Kharagpur Line-ICT II) at Baripada 263 400kV Bus-2 at Barh	15/12/17	09:00	15/12/17	17:30	ODB		CT junction Box Replacement	
263 400kV Bus-2 at Barh 264 401 bay (Main bay Kisanganj-I) at Patna	15/12/17 16/12/17	09:30 09:00	15/12/17 16/12/17	18:00 18:00	ODB	BARH POWERGRID ER-I	Attending defect of isolator connected to Bus AMP work	
					ODB			
265 220KV KLC Bantala-SUBHASGRAM Line 266 400KV Maithon-Gave Line 1	16/12/17	08:00	16/12/17	17:30	ODB	ER-II	AMP of bay equipments & repalcement of R&Y Ph LA	WB
266 400KV Maithon-Gaya Line 1 267 132KV Chuzachen Gangtok Feeder		08:00 10:00 09:00		17:30 13:00 17:30	ODB ODB ODB	ER-II ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	WB SIKKIM
266 400KV Maithon-Gaya Line 1	16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 09:00	16/12/17 16/12/17 16/12/17 20/12/17	17:30 13:00 17:30 17:00	ODB ODB ODB ODB	ER-II ER-II ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION BHEL CB Hydraulic perating mechanism overhauling	
266 400KV Maithon-Gaya Line 1 267 132KV Churachen Gangtok Feeder 268 41252 BAY AT BINAGURI 269 220KV BIRPARA-ALIPURDUAR 1 400 KVT JA D Removem JCRD 4	16/12/17 16/12/17	08:00 10:00 09:00	16/12/17 16/12/17	17:30 13:00 17:30	ODB ODB ODB ODB ODB	ER-II ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION BHEL CB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152,153 and it will be normalysed and Dislocated	SIKKIM
266/400KV Maithon-Caya Line 1 267/132KV Unazdené Gangdrick Feeder 268/1252 BAY AT BINAGURI 269/220KV BIRPARA-ALPURDUAR - 1 270/00 KV TALA-Binnaguri FDR-4 271 160 MVA ICT-IL AT SILGURI	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 09:00 08:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17	17:30 13:00 17:30 17:00 17:30 17:30 17:30	ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUKRETCA RELAY INSTALLATION BHEL GE Hydrautic perating mechanism overhaviling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom public scheme subported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propoerly VARIABLE FREQUENCY TAN DELTA	
266 (400KV Maithon-Caya Line 1 267 132KV Chuzachen Gangtok Feeder 268 41252 BAY AT BINACURI 269 220KV BIRPARA-ALPURDUAR-1 400 KV TALA-Binaguri FDR4 271 160 MVA ICT-II AT SILIGURI 272 401BAY (Koonjhar main Bay) at Baripada	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 08:00 08:00 08:00 08:00 09:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 18/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:00 17:30 17:30	ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S.	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION BHEL CB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152,153 and it will be normalysed and Dislocated spacers connected property VARIABLE FREQUENCY TAN DELTA (C j junction Box Replacement	SIKKIM
266 (JOKY Maithon-Gaya Line 1 267 (132K) Chuzachen Gangtok Feeder 268 (1225 BAY AT BINAGUR) 269 (222K) BIRPARA-ALIPURDURA 1 200 (00 KY TALA-Binnaguri FDR4 271 (150 MK-TI-LAT SILIGURI) 271 (150 MK-TI-LAT SILIGURI) 272 401 BAY (Keonjhar main Bay) at Baripada 273 400 KY (CI-LI TI: Bay(40304 Bay) at Keonjhar 400 KW MA: Bay (403 CFE) (CI-LI TI: Bay(40304 Bay) at Keonjhar	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 08:00 08:00 08:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 18/12/17 16/12/17	17:30 13:00 17:30 17:00 17:30 17:30 17:30 17:30	ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Keonjhar	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUKRETCA RELAY INSTALLATION BHEL GE Hydrautic perating mechanism overhaviling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom public scheme subported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propoerly VARIABLE FREQUENCY TAN DELTA	SIKKIM
266 (JOKK/ Maithon-Caya Line 1 267 132KV Chuzachen Gangtok Feeder 268 (H222 BAY AT BINACUR 269 (H222 BAY AT BINACUR 269 (H222 BAY AT BINACUR 270 (400 KV TALA-Binnaguri FDR4 271 160 MVA ICT-II AT SULGURI 272 401 BAY (Keonjhar main Bay) at Baripada 273 400KV ICT-II TE Bay(40304 Bay) at Keonjhar 274 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 08:00 08:00 08:00 09:00 09:00 09:00	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:00 17:30 17:30 17:30 17:30 17:30 18:00 13:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Keonjhar ER-II/Odisha/Keonjhar	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL CB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected property VARIABLE FREQUENCY TAN DELTA CJ junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB	SIKKIM
266/400KV Maithon-Caya Line 1 267/132KV Churachen Gangtok Feeder 268/14252 BAY AT BINACILR 269/220KV BIRPARA-ALIPURDUAR -1 270/400 KV TALA-Binnaguri FDR. 4 271 272 200 KV TALA-Binnaguri FDR. 4 271 272 201 KV TALA-Binnaguri FDR. 4 273 273 274 274 274 275 275 275 275 275 275	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 08:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 18:00 13:00 18:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Keonjhar ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF ANTIO-RECOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propeetly VARIABLE FREQUENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB	SIKKIM NLDC WB
266 400KV Maithon-Caya Line 1 267 132KV Chuzachen Gangtok Feeder 268 41252 BAY AT BINAGUR 269 222 BAY AT BINAGUR 269 41252 BAY AT BINAGUR 270 400 KV TALA-Binnaguri FDR4 271 160 MAK G-TI-IAT SLIGURI 2721 400 KV AG-TI-IAT SLIGURI 2723 400 KV TAL-Binnaguri FDR4 273 400 KV Main Bay-403 of 765/400 KV ICT-1 at Kondjnar 274 400 KV Main Bay-403 of 765/400 KV ICT-1 at Sundargarh 275 Main Bay-404 of 400 KV Rourkela Line-II at Sundargarh 276 F05KV BUS-1 AT ANGUL	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 09:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 13:00 13:00 18:00 20:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF ANTO FECOSE OPERATION The Boitom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propeorly VARABLE FREQUENCY TAN DELTA CT Junction Box Replacement AMP Activity Replacement of Auxillary switch in 400KV CB Replacement of Auxillary switch in 400KV CB	SIKKIM
266/400KV Maithon-Caya Line 1 267/132KV Churachen Gangtok Feeder 268/14252 BAY AT BINACILR 269/220KV BIRPARA-ALIPURDUAR -1 270/400 KV TALA-Binnaguri FDR. 4 271 272 200 KV TALA-Binnaguri FDR. 4 271 272 201 KV TALA-Binnaguri FDR. 4 273 273 274 274 274 275 275 275 275 275 275	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 08:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:00 17:30 17:30 17:30 17:30 17:30 18:00 13:00 18:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Keonjhar ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF ANTIO-RECOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propeetly VARIABLE FREQUENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB	SIRKIM NLDC WB NLDC
266/400KV Maithon-Caya Line 1 267/132KV Churachen Gangtok Feeder 268/1252 BAY AT BMACURI 269/220KV BIRPARA-ALIPURDUAR -1 270 20K VTAL-Binnaguri FDR. 4 271 160 MVA ICT-II AT SILIGURI 272 4015KV TALA-Binnaguri FDR. 4 273 400K VTAL-Binnaguri FDR. 4 273 4015KV TCI-II TE Say(43049 Bay) at Beripada 273 400K VT-II TE Bay(43049 Bay) at Keonjhar 274 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-II at Sundargarh 276 765KV BUS-I AT ANGUL 765kV Angul-Srikakulam Line-1 278 278 GAUWAKA-I MAIN BAY (412) at Jsypore	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 09:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 13:00 13:00 13:00 18:00 20:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA RELAY INSTALLATION BHEL GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARIABLE FREQUENCY TAN DELTA CT Junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid	SIKKIM NLDC WB
266 (JOKY Maithon-Caya Line 1 267) 132KV Churachen Gangtock Feeder 268) 41252 BAY AT BINAGURI 269 (220KV BIRPARA-ALPURDUAR-1 270 (400 KV TALA-Binnaguri FDR4 271 (150 MVA ICT-II AT SILGURI 2724 00 BAY (Keonjhar main Bay) at Baripada 273 400 KV ICT-II AT SILGURI 274 400 KV (Keonjhar main Bay) at Keonjhar 274 400 KV (CT-II TE Bay(40304 Bay) at Keonjhar 274 400 KV Main Bay-403 of 765/400 KV ICT-I at Sundargarh 275 Main Bay-404 of 400 KV Rourkela Line-II at Sundargarh 276 765KV BUS-I AT ANGUL 277	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 09:00 08:00 08:00 09:00 00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00 00:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 13:00 13:00 18:00 20:00 18:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA RELAY INSTALLATION BHEL CB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARIABLE FREQUENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement & Atronghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability	SIRKIM NLDC WB NLDC
266/400KV Maithon-Gaya Line 1 267/132KV Durazhen Gangtock Feeder 268/41252 BAY AT BINAGURI 269/122KV Durazhen Gangtock Feeder 268/41252 BAY AT BINAGURI 269/22KV BIRPARA-ALPURDUAR - 1 270 400 KV TALA-Binnaguri FDR4 271 271 201 KWA ICT-II AT SILGURI 272 273 273 274 274 274 275 274 276 276 275 276 <td>16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17</td> <td>08:00 10:00 09:00 09:00 08:00 08:00 09:00 00 09:00 00 09:00 00 00 00 00 00 00 00 00 00</td> <td>16/12/17 16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17</td> <td>17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 18:00 13:00 18:00 18:00 18:00 18:00 11:30</td> <td>ODB ODB ODB</td> <td>ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S ER-II/Odisha/Reonjhar ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM</td> <td>Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhaviling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARIABLE FREQUENTY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB APP Works Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability for AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR</td> <td>SIRKIM NLDC WB NLDC NLDC</td>	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	08:00 10:00 09:00 09:00 08:00 08:00 09:00 00 09:00 00 09:00 00 00 00 00 00 00 00 00 00	16/12/17 16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 18:00 13:00 18:00 18:00 18:00 18:00 11:30	ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S ER-II/Odisha/Reonjhar ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhaviling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARIABLE FREQUENTY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB APP Works Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability for AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR	SIRKIM NLDC WB NLDC NLDC
266/400KV Maithon-Caya Line 1 267/132KV Churachen Gangtock Feeder 268/1252 BAY AT BINAGURI 269/20KV BIRPARA ALPURDUAR -1 270 200 KV TALA-Binnaguri FDR-4 271 271 271 271 281 271 271 271 271 271 271 271 271 271 271 271 271 272 273 273 273 274 274 275 273 274 274 275 276 276 276 276 276 276 276 276 276 276 276 276 276 276 <	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17	08:00 10:00 99:00 09:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 08:00 08:00 09:30 07:00 10:00 08:00 09:30 00 09:30 00 00 00 00 00 00 00 00 00 00 00 00 0	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 18:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 11:30 15:00 13:00 17:30	ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/RARIPADA S ER-II/Odisha/Rengah ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Rengali ER-II ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overknalling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propoerly VARIABLE FROUDENT TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Work. [Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION FOR CB Bechanism overhauling work and AMP.	SIRKIM NLDC WB NLDC
266 (JOKK Maithon-Gaya Line 1 267 [132K) Churachen Gangtok Feeder 268 [1452; BAY AT BINAGUR 269 (200K) BIRPARA-ALIPURDUAR-1 270 (400 K) TALA-Binnaguri FDR. 4 271 [140 K) VT TALA-Binnaguri FDR. 4 271 [160 MVA ICT-II AT SILIGURI 273 400K VI TALA-Binnaguri FDR. 4 273 400K VI TAL-Binnaguri FDR. 4 274 400K V Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-II at Sundargarh 276 765KV BUS-I AT ANGUL 765KV Angul-Srikakulam Line-1 277 278 GAUUWAKA-I MAIN BAY (412) at Jeypore NEW CHANDITALA -400 kv MB-I with Bus Coopter & 20 400kv bayo of KCPR42, KTPS, ICT # 2 one by one 281 [132 KV MAID-MAIDA-1 281 [132 KV MAID-MAIDA-1 283 [123 KV MAID-MAIDA-1 283 [123 KV MAID-MAIDA-1 283 [123 KV JO BAY (Barjada Line main Bay) at Baripada	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17	08:00 10:00 09:00 09:00 08:00 08:00 09:00 00 00 00 00 00 00 00 00 00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 13:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 11:30 15:00 13:00 17:30 17:30	ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Reonjhar ER-II/Odisha/Reonjhar ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Rengali ER-II/Odisha/Rengali ER-II/Odisha/Rengali ER-II/Odisha/Rengali	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propeorly VARABLE FREQUENCY TAN LOTLA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability for AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	SIRKIM NLDC WB NLDC NLDC
266/400KV Maithon-Caya Line 1 267/132KV Churachen Gangtock Feeder 268/1252 BAY AT BINAGURI 269/20KV BIRPARA ALPURDUAR -1 270 200 KV TALA-Binnaguri FDR-4 271 271 271 271 281 271 271 271 271 271 271 271 271 271 271 271 271 272 273 273 273 274 274 275 273 274 274 275 276 276 276 276 276 276 276 276 276 276 276 276 276 276 <	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17	08:00 10:00 99:00 09:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 08:00 08:00 09:30 07:00 10:00 08:00 09:30 00 09:30 00 00 00 00 00 00 00 00 00 00 00 00 0	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 18:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 11:30 15:00 13:00 17:30	ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/RARIPADA S ER-II/Odisha/Rengah ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Rengali ER-II ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overknalling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propoerly VARIABLE FROUDENT TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Work. [Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION FOR CB Bechanism overhauling work and AMP.	SIRKIM NLDC WB NLDC NLDC
266 (400KY Maithon-Caya Line 1 267 [132K) Churachen Gangtok Feeder 268 [4125; BAY AT BINAGUR 269 (200K) BIRPARA-ALIPURDUAR-11 270 (400 KV TALA-Binnaguri FDR. 4 271 [460 MVA ICT-II AT SILIGURI 272 [401BAY (Keonjhar main Bay) at Baripada 273 (400KV CH.11 File Say(40304 Bay) at Keonjhar 274 (400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-II at Sundargarh 276 (765KV BUS-I AT ANGUL 707 (400 KV MALA-Sinkulam Line-1 277 278 (GAUWAKA-I MAIN BAY (412) at Jeypore 279 (400K vAugul-Srikakulam Line-1 271 271 272 273 274 275 Main Bay-403 of 765/400KV ICT-I at Sundargarh 276 276 (765KV BUS-I AT ANGUL 777 278 279 279 270 271 271 272 273 274 275 276 2765 277	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17	08:00 10:00 09:00 09:00 08:00 08:00 09:00 00 00 00 00 00 00 00 00 00	16/22/17 16/12/17 16/12/17 20/12/17 16/12/17 18/12/17 18/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 17:30 13:00 13:00 18:00 18:00 18:00 18:00 11:30 15:00 17:30 15:00	ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI SS ER-II/Odisha/Jeypore WB ER-II ER-II ER-II/Odisha/RaRIPADA S. WB	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected proportly VARABLE FROUDENCT TAN LOTLA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability for AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION For CB Mechanism overhaulling work and AMP. CT junction Box Replacement Winter Maintenance	SIRKIM NLDC WB NLDC NLDC
266/400KV Maithon-Gaya Line 1 267/132KV Churachen Gangtok Feeder 268/1252 BAY AT BINACURI 269/220KV BIRPARA-ALIPURDUAR-1 270 200 KV TALA-Binnaguri FDR. 4 271 271 271 271 286 271 271 271 272 271 272 273 273 274 274 274 274 274 275 276	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17	08:00 10:00 09:00 09:00 08:00 08:00 09:00 00 00 00 00 00 00 00 00 00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17	17:30 13:00 17:30 17:30 17:30 17:30 17:30 17:30 13:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 11:30 15:00 13:00 17:30 17:30	ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Reonjhar ER-II/Odisha/Reonjhar ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Rengali ER-II/Odisha/Rengali ER-II/Odisha/Rengali ER-II/Odisha/Rengali	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhaviling FOR BAY AMP & CHECKING OF AUTO-REELOSE OPERATION The Bottom phase is supported on Rolier at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARABLE FROUDENCY TAN DELTA Cf Junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mcchanism overhauling work and AMP.	SIRKIM NLDC WB NLDC NLDC NLDC
266 (JOKY Maithon-Gaya Line 1 267 [132K) Churachen Gangdrök Feeder 268 [4325; BAY AT BINAGUR 269 (200K) BIRPARA-ALIPURDUAR-11 270 (400 KV TALA-Binnaguri FDR. 4 271 [160 MVA ICT-II AT SILIGURI 272 (401BAY (Keonjhar main Bay) at Baripada 273 (400 KV TALA-Binnaguri FDR. 4 274 (400 KV Main Bay-403 of 765/400 KV ICT-I at Sundargarh 274 (400 KV Main Bay-403 of 765/400 KV ICT-I at Sundargarh 275 (765 KV BUS-I AT ANGUL 765 KV Angul-Srikakulam Line-1 277 (200 KV May Sor (KCPR#2, KTPS, ICT# 2 one by one 281 (32 KV MADD-MALDA-1) 284 (400 kV buss-1 AT NPRN	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 17/12/17 18/12/17	08:00 10:00 09:00 09:00 09:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 08:00 08:00 09:30 07:30 10:00 09:00 09:00 09:00 10:00 10:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 18/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 18/12/17 18/12/17	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18:00 18:00 18:00 18:00 17:30 15:00 17:30 15:00 17:00 15:00	ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI SS ER-II/Odisha/BARIPADA S. WB POWERGRID ER-I POWERGRID ER-I	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO FECOSE OPERATION The Boitom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propeorly VARABLE FREQUENCY TAN DELTA CT Junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strengthtening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT Junction Box Replacement Winter Maintenance Winter Maintenance Winter Maintenance MMP Work BUS AMP & TIGHTINING	SIKKIM NLDC WB NLDC NLDC NLDC Bihar (Re conductoring work is in
266 400KV Maithon-Gaya Line 1 267 132KV Churachen GangVick Feeder 268 41252 BBY AT BINAGURI 269 20KV BIRPARA ALPURDUAR -1 270 400 KV TALA-Binnaguri FDR-4 271 160 MVA ICT-1 AT SILGURI 273 400 KV TALA-Binnaguri FDR-4 273 400 KW ACT-1 AT SILGURI 273 400 KW ACT-1 AT SILGURI 273 400 KW Main Bay 40304 Bay) at Keonjhar 274 400 KW Main Bay-403 of 765/400 KV ICT-1 at Sundargarh 276 765 KV BUS-1 AT ANGUL 276 765 KV Angul-Srikakulam Line-1 277 700 KW Main Bay-403 of 100 kW MB-1 with Bas Coupler & 279 400 KW Mainbon-Gaya Line 2 281 200 KW Mainbon-Gaya Line 2 282 400 KW Mainbon-Gaya Line 2 284 123 XW MALDA-MALDA-1 282 400 KW Mainbon-Gaya Line 2 284 400 kw bays of KGPR #1, JRT, ICT# 1 one by one 284 400 kw bays of KGPR #1, JRT, ICT# 1 one by one 284 400 kw LAIADIT-LA: 400 kw MB-2 with Bus Coupler & 284 400 kw bays of KGPR #1, JRT, ICT# 1 one	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 18/12/17 18/12/17	08:00 09:00 09:00 09:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00 02:00 08:00 09:00 00:00 09:00 00:00 09:00 00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 18/12/	17.30 17.31 17.30 17.30 17.30 17.31 17.32 17.33 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20.00 18.00 15.00 17.30 17.30 17.30 17.30 17.30 17.30 17.30 15.00 16.00 18.00	ODB ODB <td>ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Keonjhar ER-II/Odisha/Keonjhar ER-II/Odisha/Sundergarh ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI TLAM ER-II/Odisha/RengaII ER-II/Odisha/RengAII E</td> <td>Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHE. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151,152,153 and it will be normalysed and Dislocated spacers connected propoerly VARABLE FROUDENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION FOR CB Mechanism overhauling work and AMP. CT junction Box Replacement AMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2</td> <td>SIRKIM NLDC WB NLDC NLDC NLDC WB Bihar (Re conductoring work is in progress)</td>	ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Keonjhar ER-II/Odisha/Keonjhar ER-II/Odisha/Sundergarh ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI TLAM ER-II/Odisha/RengaII ER-II/Odisha/RengAII E	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHE. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151,152,153 and it will be normalysed and Dislocated spacers connected propoerly VARABLE FROUDENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION FOR CB Mechanism overhauling work and AMP. CT junction Box Replacement AMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2	SIRKIM NLDC WB NLDC NLDC NLDC WB Bihar (Re conductoring work is in progress)
266 400KV Mailhon-Gaya Line 1 267 132KV Unarden Ganghok Feeder 268 14325 BAY AT BINAGURI 269 20KV BIRPARA ALIPURDUAR-1 270 400 KV TALA-Binnaguri FDR. 4 271 160 MWA ICT-11 AT SILGURI 273 400KV Kiconjhar main Bay) at Baripada 273 400KV Main Bay-403 of 765/400KV ICT-11 at Sundargarh 274 400KV Main Bay-403 of 765/400KV ICT-11 at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-I1 at Sundargarh 276 765KV BUS-1 AT ANGUL 765KV Angul-Srikakulam Line-1 77 278 GAUUWAKA-I MAIN BAY (412) at Jeypore NEW CHANDITALA-300 kv MB-1 with Bus Compler & 279 400KV Maithon-Gaya Line 2 281 600KV Maithon-Gaya Line 2 282 400K Rengail-Koonjnar Tie Bay-401 at Rengail 282 400KV Rengail-Koonjnar Tie Bay-401 at Rengail 283 132 KV MALDA-MALDA-1 284 100 KV MALDA 284 400 KV MOK VA COV kv MB-2 with Bus Coupler & 284 400 KV MADA 285 400 KV MARANDITAL-3 (00 Kv MB-2 with Bus Couple	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 17/12/17 18/12/17	08:00 09:00 09:00 09:00 08:00 08:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 07:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 18/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 18/12/17 18/12/17	17.30 17.31 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20:00 18.00 17.30 15:00 17:30 15:00 17:00 18:00 22:30	ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI SS ER-II/Odisha/BARIPADA S. WB POWERGRID ER-I POWERGRID ER-I	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propoerly VARIABLE FROUDENCT TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION FOR CB Mechanism overhauling work and AMP. CT junction Box Replacement Winter Maintenance Englacement	SIRKIM NLDC WB NLDC NLDC Bihar (Re conductoring work is in progress) DVC
266 400KV Maithon-Gaya Line 1 267 123KV Unazden Gangtok Feeder 268 1252, BAY AT BINAGUR 269 120KV BIRPARA-ALIPURDUAR-11 270 400 KV TALA-Binnaguri FDR. 4 271 160 MVA ICT-II AT SILIGURI 272 401BAY (Keonjhar main Bay) at Baripada 273 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 274 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-II at Sundargarh 276 765KV BUS-I AT ANGUL 707 765KV Angul-Srikakulam Line-1 271 271 272 GAUWAKA-I MAIN BAY (412) at Jeypore 278 GAUWAKA-I MAIN BAY (412) at Leypore 279 400kv Maugo Konjhar Tie Bay-401 at Rengali 281 128 KV MALD-MALDA-IL 281 128 KV MALD-MALDA-IL 281 128 KV MALD-MALDA-IL 281 128 KV MALDA-MALDA-IL 281 128 KV MALDA-MALDA-IL 281 128 KV MALDA-MALDA-IL 281 128 KV MALDA-MALDA-IL 281 128 KV MALDA-M	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 18/12/17 18/12/17 18/12/17	08:00 09:00 09:00 09:00 09:00 08:00 08:00 09:00	16/22/17 16/12/17 16/12/17 20/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/17 18/12/17 18/12/17 18/12/17 23/12/17	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20.00 18.00 17.30 15.00 17.30 15.00 17.30 15.00 17.30 15.00 17.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00	ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Angul TLAM ER-II POWERGRID ER-I	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHE. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151,152,153 and it will be normalysed and Dislocated spacers connected propoerly VARABLE FROUDENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION FOR CB Mechanism overhauling work and AMP. CT junction Box Replacement AMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2	SIRKIM NLDC WB NLDC NLDC NLDC Bihar (Re conductoring work is in progress)
266 400KV Maithon-Gaya Line 1 267 132KV Unazdne GangUck Feeder 268 41252 BAY AT BMAGURI 269 1252 BAY AT BMAGURI 270 400 KV TAL-8 Binnaguri FDR-4 271 160 MVA ICT-14 AT SILGURI 272 400 KV Konguri Tie Bay (40304 Bay) at Kenjhar 273 400 KV Main Bay-403 of 765/400 KV ICT-1 at Sundargarh 276 765KV MuS-1 AT ANGUL 276 765KV BUS-1 AT ANGUL 276 765KV BUS-1 AT ANGUL 277 278 274 400 kv Magu-Srikakulam Line-1 277 278 279 6AUUWAKA-I MAIN BAY (412) at Jeypore NEW CHANDITALA 400 kv MB-1 with Bus Coupler & 281 400 kv MALDA-MALDA-1 282 400 kw Mathon-Gaya Line Bay-401 at Rengali 283 284 284 400 kv MALDA-MALDA-1	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 18/12/17 18/12/17 18/12/17	08:00 09:00 09:00 09:00 09:00 09:00 08:00 09:00 </td <td>16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17</td> <td>17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20.00 18.00 17.30 15.00 17.30 15.00 17.30 15.00 18.00 22.30 18.00 18.00 17.30 15.00 16.00 17.30 15.00 16.00 17.00</td> <td>ODB ODB ODB</td> <td>ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/RARIPADA S ER-II/Odisha/RARIPADA S ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Rangali ER-II/Odisha/Rengali ER-II/Odisha/Rengali ER-II/Odisha/RARIPADA S WB POWERGRID ER-I POWERGRID ER-I</td> <td>Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraudic perating mechanism overhading FOR BAY AMP & CHECKING OF ANTO-RECOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected property AVRABLE FREQUENCY TAN DELTA CT juncion Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION For CB Mechanism overhaulling work and AMP. CT juncion Box Replacement MMP & TIGHTINING Fre wall Construction and Checking of Aircel of ICT-2 CT of lasmpling work. Replacement of Porcelain Insulator with Polymer ones at Multi Circuit portion STATCOM CONSTRUCTION (foundation for Tertiary loading)</td> <td>SIKKIM NLDC NLDC NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC</td>	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20.00 18.00 17.30 15.00 17.30 15.00 17.30 15.00 18.00 22.30 18.00 18.00 17.30 15.00 16.00 17.30 15.00 16.00 17.00	ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/RARIPADA S ER-II/Odisha/RARIPADA S ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Rangali ER-II/Odisha/Rengali ER-II/Odisha/Rengali ER-II/Odisha/RARIPADA S WB POWERGRID ER-I POWERGRID ER-I	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraudic perating mechanism overhading FOR BAY AMP & CHECKING OF ANTO-RECOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected property AVRABLE FREQUENCY TAN DELTA CT juncion Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION For CB Mechanism overhaulling work and AMP. CT juncion Box Replacement MMP & TIGHTINING Fre wall Construction and Checking of Aircel of ICT-2 CT of lasmpling work. Replacement of Porcelain Insulator with Polymer ones at Multi Circuit portion STATCOM CONSTRUCTION (foundation for Tertiary loading)	SIKKIM NLDC NLDC NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC
266 400KV Maithon-Gaya Line 1 267 132KV Churadhen Gangtok Feeder 268 41252 BAY AT BMAGURI 269 220KV BIRPARA-ALIPURDUAR-1 269 220KV BIRPARA-ALIPURDUAR-1 270 400 KV KIA-Binnaguri FDR. 4 271 160 MWA ICT-II AT SILGURI 272 400KV Main A-Binnaguri FDR. 4 273 400KV CI-II Ti Bay(40304 Bay) at Keonjhar 273 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 274 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-II at Sundargarh 276 765KV Angul-Srikakulam Line-1 277 A00KV Main SAY (412) at Jeypore NEW CHANDITALA-3400 kv MB-1 with Bus Coupler & 279 400Kv Mailhon-Gaya Line 2 281 132 kV Magul-Srikakulam Line-1 278 5210WAKA-1 MAIN BAY (412) at Jeypore NEW CHANDITALA-3400 kv MB-2 with Bus Coupler & 281 132 kV Angul-Srikakulam Line 2 281 132 kV Angul-KanJIPAT 281 132 kV Angul-KanJIPAT 281 100 kV ALAD-3400 kv MB-2	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 17/12/17 17/12/17 17/12/17 18/12/17 18/12/17 18/12/17	08:00 09:00 09:00 09:00 08:00 08:00 08:00 09:00 08:00 08:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 17/12/17 18/12/17 18/12/17 18/12/17 18/12/17	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18:00 20:00 18:00 15:00 17:30 15:00 15:00 15:00 15:00 16:00 18:00 18:00	ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S ER-II/Odisha/BARIPADA ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI SS ER-II/Odisha/AnguI TLAM ER-II/Odisha/AnguI TLAM ER-II/Odisha/RengaII ER-II POWERGRID ER-I POWERGRID ER-I	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151,152,153 and it will be normalysed and Dislocated spacers connected propoerly VARIABLE FROUDENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION FOR CB Mechanism overhauling work and AMP. CT junction Box Replacement Winter Maintenance Englacement of Porcelain Insulator with Polymer ones at Multi Circuit portion STATCOM CONSTRUCTION (foundation for Tertiary Ioading) AMP For ISING CONSTRUCTION (foundation for Tertiary Ioading) AMP For Isolator restification work under S/S extn. Package	SIKKIM NLDC NLDC NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC
266 400KV Maithon-Gaya Line 1 267 123KV Unazdené Gangdrek Feeder 268 1252 SBAY AT BINAGURI 269 220KV BIRPARA-ALIPURDUAR-11 270 400 KV TALA-Binnaguri FDR. 4 271 1260 KV TALA-Binnaguri FDR. 4 2721 160 MVA ICT-II AT SILIGURI 273 400KV Koonphar main Bay) at Baripada 273 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 274 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-II at Sundargarh 276 765KV Angul-Srikakulam Line-1 277 278 GAUWAKA-I MAIN BAY (412) at Jeypore NEW CHANDTALA - 3400 kv MB-1 with Bus Coupler & 279 278 53 132 KV MALD-MALDA-1 200 kv Mathon-Gaya Line 2 281 128 KV MALD-MALDA-1 200 kv MalDA-1 281 128 KV MALDA-MALDA-1 200 kv Bays of KGPRR #1, IRT, ICT# 2 one by one 281 128 KV MALDA-MALDA-1 200 kv Bays of KGPR #1, IRT, ICT# 1 one by one 282 128 KV MALDA-MALDA-1 200 kv Bays of KGPR #1, IRT, ICT# 1 one by one 283 128 KV MALDA-MALDA-1<	16/12/17 18/12/17 18/12/17 18/12/17 18/12/17	08:00 09:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 18/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20.00 18.00 17.30 15.00 17.30 15.00 17.30 15.00 18.00 22.30 18.00 18.00 17.00 18.00 18.00 18.00 18.00 18.00 17.00	ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Rangali ER-II ER	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHB. GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO FECOSE OPERATION The Bottom phase is supported on Rolier at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARABLE FREQUENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB AMP Activity Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT Junction Box Replacement Winter Maintenance Implementation of NGR bypass scheme at LR For CATEST VESION NUMERICA. RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT Junction Box Replacement Winter Maintenance AMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2 CT oil sampling work. Replacement of Procelain Instalator with Polymer ones at Multi Circuit portion STATCOM CONSTRUCTION (foundation for Tertiary Ioading)	SIKKIM NLDC NLDC NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC NLDC NLDC NLDC NLDC
266 400KV Maithon-Gaya Line 1 267 123KV Churadhen Gangtok Feeder 268 123X EVATB BMAGUR 269 220KV BIRPARA-ALIPURDUAR-11 270 400 KV TALA-Binnaguri FDR. 4 271 160 MVA ICT-II AT SILIGURI 272 400 KV TALA-Binnaguri FDR. 4 273 400KV KO TALA-Binnaguri FDR. 4 273 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 274 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-II at Sundargarh 276 765KV BUS-I AT ANGUL 765KV Angul-Srikakulam Line-1 277 278 GAUWAKA-I MAIN BAY (412) at Jeypore 278 GAUWAKA-I MAIN BAY (412) at Jeypore 279 400Kv bayo of KCPR#2, KTPS, ICT# 2 one by one 281 128 KV MAD_MANLD-I 281 290 WA MaD-MALD-I 281 290 KW MAD-MANLD-I 281 290 KW RARD-MA	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17	08:00 09:00 09:00 09:00 09:00 08:00 08:00 08:00 09:00	16/22/17 16/12/17 16/12/17 20/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 17/12/17 17/12/17 18/12/17 18/12/17 21/12/17 18/12/17 22/12/17 18/12/17 22/12/17	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 18.00 15.00 17.30 15.00 17.30 15.00 18.00 18.00 18.00 18.00 17.00 18.00 17.00 18.00 17.00 17.00	ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sandergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Renpali ER-II ER-II/Odisha/Renpali ER-II ER-II ER-II ER-II/Odisha/Renpali ER-II ER-II ER-II ER-II ER-II ER-II POWERGRID ER-I POWERGRID ER-I </td <td>Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO FECOSE OPERATION The Boitom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propeorly VARABLE FROQUENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strengthtening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement AMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2 CT oil sampling work. Replacement of Porcelain Insulator with Polymer ones at Multi Circuit portion STATCOM CONSTRUCTION (foundation for Tertiary loading) AMP For KINTENTION OF AVERSION INSTRUCTION (foundation for Tertiary loading) AMP For KINTERION OF AVERSION INSTRUCTION (foundation for Tertiary loading) AMP</td> <td>SIRKIM NLDC WB NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC NLDC BIHAR</td>	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICA. RELAY INSTALLATION BHEL GE Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO FECOSE OPERATION The Boitom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected propeorly VARABLE FROQUENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strengthtening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement AMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2 CT oil sampling work. Replacement of Porcelain Insulator with Polymer ones at Multi Circuit portion STATCOM CONSTRUCTION (foundation for Tertiary loading) AMP For KINTENTION OF AVERSION INSTRUCTION (foundation for Tertiary loading) AMP For KINTERION OF AVERSION INSTRUCTION (foundation for Tertiary loading) AMP	SIRKIM NLDC WB NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC NLDC BIHAR
266 400KV Maithon-Gaya Line 1 267 132KV Churadhen GangVick Feeder 268 41252 BAY AT BMAGURI 269 20KV BIRPARA ALPURDUAR -1 269 20KV BIRPARA ALPURDUAR -1 270 400 KV TALA-Binnaguri FDR-4 271 160 MWA ICT-14 AT SILGURI 272 401BAY (Keonjhar main Bay) at Baripada 273 400KV McI T-14 TS Bay(40304 Bay) at Keonjhar 274 400KV Main Bay-403 of 765/400KV ICT-14 at Sundargarh 276 765KV BUS-1 AT ANGUL 276 765KV BUS-1 AT ANGUL 277 700 KW Main Bay-403 of 400KV Rourkela Line-11 at Sundargarh 278 6AUWAKA-1 MAIN BAY (412) at Leypore NEW CHANDITALA-300 kw MB-1 with Bus Coupler & 279 400KV Maithon-Gaya Line 2 280 400K KM-MALDA-1 281 200X Gangal-Keonjhar Tile Bay-401 at Rengali 283 132 KV MALDA-MALDA-1 284 100K VBangal-Keonjhar Tile Bay-401 at Rengali 283 100K KBangal-Keonjhar Tile Bay-401 at Rengali 284 400K V BuS-1 AT NPRN 285 20K Ara Durmaon	16/12/17 18/12/17 18/12/17 18/12/17 18/12/17	08:00 09:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 18/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17 18/12/17	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20.00 18.00 17.30 15.00 17.30 15.00 17.30 15.00 18.00 22.30 18.00 18.00 17.00 18.00 18.00 18.00 18.00 18.00 17.00	ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II POWERGRID ER-I ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHE. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECLOSE OPERATION The Bottom phase is supported on Roller at 151,152,153 and it will be normalysed and Dislocated spacers connected properly VARABLE FROQUENCY TAN DELTA CT Juncion Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works. CT JUNCER (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement Winter Maintenance AMP Work BUS AMP & TIGHTINING Fre wall Construction and Checking of Aircel of ICT-2 CT of Il sampling work. Replacement of Porcelain Insulator with Polymer ones at Multi Circuit portion STATCOM CONSTRUCTION (Foundation for Tertiary Ioading) AMP For Ident First INFERD	SIRKIM NLDC WB NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC BIHAR SIRKIM
266 400KV Maithon-Caya Line 1 267 132KV Churadhen Gangtok Feeder 268 41252 BAY AT BMAGURI 269 20KV BIRPARA ALIPURDUAR -1 269 20KV BAPARA ALIPURDUAR -1 270 40K VI KIA-R-Binnaguri FDR. 4 271 160 MWA ICT-II AT SILGURI 272 40KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 273 40KV KI-II Ti Bay(40304 Bay) at Keonjhar 274 40KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-II at Sundargarh 276 765KV BUS-I AT ANGUL 765kV Angul-Srikakulam Line-1 765kV Angul-Srikakulam Line-1 278 GAUWAKA-I MAIN BAY (412) at Jeypore NEW CHANDITALA - 400 kw MB-1 with Bus Coupler & 221132 KV MAD.PAMAD.PAI 281 128 KV MAD.PAMAD.PAI 282 400KV Bays of KCPR #1, JRT, ICT# 2 one by one 284 400KV BUS-I AT NPRN 285 200 MVA ICT-2 & 80 MVAR Bus Reactor at Lakhisarai 286 400KV BUS-AT NPRN 287 200 MVA ICT-2 & 80 MVAR Bus Reactor at Lakhisarai 288 400KV BUS-AT NPRN	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/	08:00 99:00 99:00 99:00 99:00 08:00 08:00 08:00 08:00 09:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 </td <td>16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/</td> <td>17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20:00 18:00 17:30 15:00 17:30 15:00 18:00 17:00 18:00 18:00 18:00 17:00 18:00 18:00 17:00 18:00 17:00 17:00 18:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00</td> <td>ODB ODB ODB</td> <td>ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S. ER-II/Odisha/Keonjihar ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul TLAM ER-II/Odisha/Rengali ER-II POWERGRID ER-II POWERGRID ER-II ER-II</td> <td>Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION BHB. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RELOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARABLE FROUDENCY TAN DELTA CT Junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Writer Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement MWINER Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement Winter Maintenance MMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2 CT of Isampling work. Replacement of Procelain Insulator with Polymer ones at Multi Circuit portion STATOC CONSTRUCTION (fundation for Tertiary loading) AMP For Isolator nectification work under S/S extn. 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ER-II/Odisha/Keonjihar ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul TLAM ER-II/Odisha/Rengali ER-II POWERGRID ER-II POWERGRID ER-II ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION BHB. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RELOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARABLE FROUDENCY TAN DELTA CT Junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Writer Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. 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266 400KV Maithon-Gaya Line 1 267 123KV Churadhen Gangdrick Feeder 268 41252 BAY AT BINAGURI 269 220KV BIRPARA ALIPURDUAR -1 270 400 KV TALA-Binnaguri FDR. 4 271 160 MVA ICT-II AT SILGURI 272 400 KV TALA-Binnaguri FDR. 4 273 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 274 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 274 400KV Main Bay-403 of 765/400KV ICT-I at Sundargarh 275 765KV BUS-I AT ANGUL 765kV Angul-Srikakulam Line-1 765kV Angul-Srikakulam Line-1 278 GAUWAKA-I MAIN BAY (412) at Jeypore NEW CHANDITALA -400 kw MB-1 with Bus Coupler & 279 279 400KV MAD-MALDA-1 281 132 KV MAD.PAMLDA-1 281 200KV Rengali Koonjbar Tie Bay-401 at Rengali 283 132 kV MAD.PAMLDA-1 284 400KV BUS-1 AT NPRN 285 100kV FBAR-ANDAL 1 UNE 286 400KV BUS -1 AT NPRN 287 200 KV ALDT-1 AT NPRN 288 400kV BUS-1 AT NPRN	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/17	08:00 09:00 09:00 09:00 08:00 08:00 08:00 08:00 09:00 08:00 09:00 09:00 09:00 09:00 09:00	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20:00 18:00 17:30 17:00 17:00 18:00 18:00 18:00 18:00 18:00 17:30 18:00 17:00 18:00 17:00 17:00 17:00 17:00 17:00 17:00 17:30 17:30 17:30	ODB	ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul TLAM ER-II/Odisha/Rengali ER-II/Odisha/Rengali ER-III ER-II/Odisha/Rengali ER-II POWERGRID ER-I POWERGRID ER-I ER-II	Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION BHB. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RECOSE OPERATION The Bottom phase is supported on Rolier at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARABLE FROUDENCY TAN DELTA CT junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB AMP Activity Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement Winter Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICA. RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement Winter Maintenance AMP Work BUS AMP & TIGHTINING Fre wall Construction and Checking of Aircel of ICT-2 CT oil sampling work. Replacement of Porcelain Instalator with Polymer ones at Multi Circuit portion STATCOM CONSTRUCTION (foundation for Tertiary Isading) AMP For Isolator rectification work under S/S extn. Package FOR IMPLEMENTATION OF A/R SCHECA. TERLAY INSTALLATION FOR IMPLEMENTATION OF A/R SCHECA. TERLAY INSTALLATION FOR IMPLEMENTATION OF A/R SCHECA. TERLAY INSTALLATION FOR IMPLEMENTATION OF A/R SCHECA. TERLAY INSTALLATION AMP For Isolator rectification work under S/S extn. Package FOR IMPLEMENTATION OF A/R SCHECA. TERLAY INSTALLATION FOR AMPLEMENTATION OF A/R SCHECA. TERLAY INSTALLATION	SIKKIM NLDC NLDC NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC NLDC BiHAR SIKKIM NLDC WB
266 400KV Maithon-Gaya Line 1 267 123KV Unazdené Gangdrek Feeder 268 41252 BAV AT BINAGURI 269 220KV BIRPARA-ALIPURDUAR-1 270 400 KV TALA-Binnaguri FDR. 4 271 1260 KV TALA-Binnaguri FDR. 4 272 400 KV TALA-Binnaguri FDR. 4 273 400KV Korol, Tali T SULIGURI 273 400KV Main Bay-403 of 765/400KV ICT-1 at Sundargarh 274 400KV Main Bay-403 of 765/400KV ICT-1 at Sundargarh 275 Main Bay-404 of 400KV Rourkela Line-11 at Sundargarh 276 765KV Angul-Srikakulam Line-1 277 278 GAUWAKA-1 MAIN BAY (412) at J seypore NEW CHANDTALA - 3400 kv MB-1 with Bus Coupler & 279 278 GAUWAKA-1 MAIN BAY (412) at Leypore 279 100Kv bayo of KOPRR 2, KTPS, ICT 2 one by one 281 128 KV MALD-MALDA-1 281 128 KV MALD-MALDA-1 281 128 KV MALDA-MALDA-1 282 400Kv bays of KGPR #1, IRT, ICT# 1 one by one 283 128 KV MALD-MALDA-1 284 400kv base of KGPR #1, IRT, ICT# 1 one by one <	16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/	08:00 99:00 99:00 99:00 99:00 08:00 08:00 08:00 08:00 09:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 </td <td>16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/</td> <td>17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20:00 18:00 17:30 15:00 17:30 15:00 18:00 17:00 18:00 18:00 18:00 17:00 18:00 18:00 17:00 18:00 17:00 17:00 18:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00</td> <td>ODB ODB ODB</td> <td>ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/RARIPADA S POWERGRID ER-I ER-II ER</td> <td>Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION BHB. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RELOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARABLE FROUDENCY TAN DELTA CT Junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Writer Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement MWINER Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement Winter Maintenance MMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2 CT of Isampling work. Replacement of Procelain Insulator with Polymer ones at Multi Circuit portion STATOC CONSTRUCTION (fundation for Tertiary loading) AMP For Isolator nectification work under S/S extn. Package FOR IMPLEMENTATION FOR SYSTEM IMPROVEMENT HV & NEUTRAL Bushing Replacement AS A RPCAUTIONARY MEASURE FOR SYSTEM IMPROVEMENT FOR BATCH CHECKING AUTO-RECOSE OPERATION FOR RAY APR & CHECKING OF AUTO-RECOSE OPERATION FOR RAY APR & CHECKING OF AUTO-RECOSE OPERATION FOR CHATEST VERSION NUMERICAL RELAY INSTALLATION FOR CHATEST VERSION NUMERICAL RELAY INSTALLATION FOR CHATEST VERSION NUMERICAL RELAY INSTALLATION FOR CHATEST VERSION NUMERICAL RELAY INSTALLATION</td> <td>SIRKIM NLDC NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC BiHaR SIRKIM NLDC</td>	16/12/17 16/12/17 16/12/17 20/12/17 16/12/17 20/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 16/12/17 18/12/	17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 17.30 18.00 20:00 18:00 17:30 15:00 17:30 15:00 18:00 17:00 18:00 18:00 18:00 17:00 18:00 18:00 17:00 18:00 17:00 17:00 18:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00	ODB	ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II/Odisha/BARIPADA S ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/RARIPADA S POWERGRID ER-I ER-II ER	Implementation of NGR bypass scheme at LR FOR LATEST VESION NUMERICAL RELAY INSTALLATION BHB. GB Hydraulic perating mechanism overhauling FOR BAY AMP & CHECKING OF AUTO-RELOSE OPERATION The Bottom phase is supported on Roller at 151, 152, 153 and it will be normalysed and Dislocated spacers connected properly VARABLE FROUDENCY TAN DELTA CT Junction Box Replacement AMP Activity Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP Works (412) Writer Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement MWINER Maintenance Implementation of NGR bypass scheme at LR FOR LATEST VERSION NUMERICAL RELAY INSTALLATION For CB Mechanism overhauling work and AMP. CT junction Box Replacement Winter Maintenance MMP Work BUS AMP & TIGHTINING Fire wall Construction and Checking of Aircel of ICT-2 CT of Isampling work. Replacement of Procelain Insulator with Polymer ones at Multi Circuit portion STATOC CONSTRUCTION (fundation for Tertiary loading) AMP For Isolator nectification work under S/S extn. Package FOR IMPLEMENTATION FOR SYSTEM IMPROVEMENT HV & NEUTRAL Bushing Replacement AS A RPCAUTIONARY MEASURE FOR SYSTEM IMPROVEMENT FOR BATCH CHECKING AUTO-RECOSE OPERATION FOR RAY APR & CHECKING OF AUTO-RECOSE OPERATION FOR RAY APR & CHECKING OF AUTO-RECOSE OPERATION FOR CHATEST VERSION NUMERICAL RELAY INSTALLATION FOR CHATEST VERSION NUMERICAL RELAY INSTALLATION FOR CHATEST VERSION NUMERICAL RELAY INSTALLATION FOR CHATEST VERSION NUMERICAL RELAY INSTALLATION	SIRKIM NLDC NLDC NLDC Bihar (Re conductoring work is in progress) DVC NLDC BiHaR SIRKIM NLDC

	400/07 TALCHEDRO CHAIDAGARO THE DAY (DAY MO. 400) at						1		
	400KV TALCHER#2-CHAIBASA#2 TIE BAY (BAY NO408) at Rourkela	18/12/17	09:00	18/12/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP WORK.	
	Tie Bay-405 of 400KV Rourkela Line-II & 765/400KV ICT-II at Sundargarh	18/12/17	09:00	18/12/17	13:00	ODB	ER-II/Odisha/Sundergarh	Replacement of Auxiliary switch in 400KV CB	
	400KV Main Bay-406 of 765/400KV ICT-II at Sundargarh	18/12/17	02:00	18/12/17	18:00	ODB	ER-II/Odisha/Sundergarh	Replacement of Auxiliary switch in 400KV CB	
303									
304	765KV Dharamjoygarh Line-II	18/12/17	09:00	18/12/17	17:00	ODB	ER-II/Odisha/Sundargarh TLAM	Replacement of broken Glass Insulators at Loc. 110 of 765KV S/C Sundargarh-Dharamjoygarh line-II	NLDC
305	400KV Bus-II at Keonjhar	18/12/17	09:00	24/12/17	18:00	ODB	ER-II/Odisha/Keonjhar	Erection of G2 Beam over Bus-II for 125 MVAR Reactor	NEDC
306	Angul line TIE BAY(40102) at Bolangir	18/12/17	08:00	23/12/17	18:00	ODB	ER-II/Odisha/BOLANGIR	for roof tiling of newly constructed ACP at Balangir.	
	400KV BUS-II AT NPRN	19/12/17	10:00	19/12/17	18:00	ODB	POWERGRID ER-I	BUS AMP & TIGHTINING	
309	125 MVAR BR-2 AT JSR 400 kV Main Bus-I at Patna	19/12/17 19/12/17	09:30 09:00	19/12/17 19/12/17	17:30 18:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	CSD TESTING AMP work	
	Sipat-II LR-II at Ranchi 220KV WBSETCL Subhasgram CKT#2	19/12/17 19/12/17	10:00 08:00	19/12/17 19/12/17	17:00 17:30	ODB ODB	POWERGRID ER-I ER-II	AMP AMP of bay equipments.	NLDC WB
	400KV MAITHON-MEJIA3	19/12/17	09:00	20/12/17	17:00	ODB	ER-II	Line AMP work	DVC
313	400 KV TALA-Binnaguri FDR1	19/12/17	08:00	20/12/17	17:30	ODB	ER-II	Dislocated and missing Spacers will be connected propoperly at location no in between loc No 143 &144 and 144 & 145	NLDC
314	220KV SADAIPALI LINE BAY CB(205 BAY) at Bolangir	19/12/17	08:00	19/12/17	18:00	ODB	ER-II/Odisha/BOLANGIR	AMP (Timing and DCRM of 205 CB), there will be no powerflow interruption duringabove S/D.	
	Main Bay-407 of 400KV Raigarh Line-I at Sundargarh	19/12/17	09:00	19/12/17	13:00	ODB	ER-II/Odisha/Sundergarh	Replacement of Auxiliary switch in 400KV CB	
315	Tie Bay-408 of 400KV Raigarh Line-I & Future at	19/12/17	02:00	19/12/17	18:00	ODB			
	Sundargarh		02.00				-	Replacement of Auxiliary switch in 400KV CB	
317	400KV CHAIBASA#2 MAIN BAY (BAY NO409) at Rourkela	19/12/17	09:00	19/12/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP WORK.	
318	765 KV 3* 110 MVAR BUS REACTOR-1 AT ANGUL	19/12/17	08:00	19/12/17	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work.	NLDC
319	408 BAY(Duburi &jamshedpur line tie bay) at Baripada	19/12/17	09:00	19/12/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	
320	400kV Fkk-Kahalgaon line-1	19/12/17	09:00	20/12/17	17:00	OCB	FARAKKA	CVT Replacement	
	BKTPP-JEERAT 400 KV FDR 400 kv Arambag-New PPSP 1	19/12/17 19/12/17	07:00 06:00	22/12/17 19/12/17	15:00 15:00	ODB ODB	WB WB	O.D.B. Winter Maintenance	
323	400kv Kharagpur-Chanditala ckt 1 132 KV MAIN BUS AT 220/132 KV PURNEA SS	19/12/17 20/12/17	07:00 09:00	19/12/17 20/12/17	15:00 22:00	ODB ODB	WB POWERGRID ER-I	Winter Maintenance GIS WORK	BIHAR
325	160 MVA ICT#1 AT PRN	20/12/17	09:00	23/12/17	16:00	OCB	POWERGRID ER-I	GIS WORK	Bihar
	MAIN BAY OF 400KV NSLG- I AT NPRN Tie bay of 765 KV B/R-2 & Future bay (bay 708) at New	20/12/17	10:00	20/12/17	18:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	BAY AMP	
327	Ranchi 202 (Chandil-I Main Bay) at Ranchi	20/12/17 20/12/17	08:00	20/12/17 20/12/17	18:00 17:00	ODB ODB	POWERGRID ER-I	AMP (17-18) AMP	NLDC
329	132kV Pusauli-Karmnasha	20/12/17	09:00	20/12/17	18:00	ODB	POWERGRID ER-I	To carry out AMP work of Line Bay Equipments at Pusauli	BIHAR
	220KV WBSETCL Subhasgram CKT#1 132KV / 66KV 50 MVA ICT#2 Gangtok	20/12/17 20/12/17	08:00 09:00	20/12/17 20/12/17	17:30 17:30	ODB ODB	ER-II ER-II	AMP of bay equipments. FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	WB SIKKIM
	315 MVA ICT-I AT BINAGURI	20/12/17	08:00	20/12/17	17:30	ODB	ER-II	FOR LATEST VERSION NUMERICAL RELAY INSTALLATION FOR SHIFTING OF BAYS AT BERHAMPUR SS TO ACCOMMODATE COMMISSIONING OF 125 MVAR BUS	
333	400 KV FARAKKA-BERHAMPUR LINE	20/12/17	08:00	30/12/17	17:30	OCB	ER-II	REACTOR (NEW)	
	765/400 KV,3* 500 MVA ICT-3 AT ANGUL 220 kV Bus -I at Jeypore	20/12/17 20/12/17	08:00 09:00	20/12/17 21/12/17	18:00 18:00	ODB ODB	ER-II/Odisha/Angul SS ER-II/Odisha/Jeypore	AMP Work. Isolator Retrofitting Works of Bus-I side Isolators	NLDC GRIDCO
	400KV RAIGARH#2 MAIN BAY (BAY NO419) at Rourkela	20/12/17	09:00	20/12/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP WORK	
	Main Bay-410 of 400KV Rourkela Line-I at Sundargarh	20/12/17	09:00	20/12/17	13:00	ODB	ER-II/Odisha/Sundergarh	Replacement of Auxiliary switch in 400KV CB	
337	Tie Bay-411 of 400KV Rourkela Line-I & Future at						-		
338	Sundargarh NEW CHANDITALA: 400 kv TR. BUS	20/12/17 20/12/17	02:00	20/12/17 20/12/17	18:00 15:00	ODB ODB	ER-II/Odisha/Sundergarh WB	Replacement of Auxiliary switch in 400KV CB Winter Maintenance	
340	TIE BAY OF 400KV NSLG- I AT NPRN	21/12/17	10:00	21/12/17	18:00	ODB	POWERGRID ER-I	BAY AMP	
	400 kV Main Bus-II at Patna 765 KV NRNC - DMG Ckt-1	21/12/17 21/12/17	09:00 09:00	22/12/17 21/12/17	18:00 18:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP work for replacement of insualtors damged by micreants at loc 89	NLDC
	Tie bay of 765 KV B/R-1 & Future bay (bay 711) at New	21/12/17	08:00	21/12/17	18:00	ODB	POWERGRID ER-I		NLDC
344	Ranchi 765 KV BUS-I at Gaya S/S	21/12/17	08:00	21/12/17	18:00	ODB	POWERGRID ER-I	AMP (17-18) For isolator rectification work under S/S extn. Package	NLDC
344	765 KV BUS-I at Gaya S/S 125 MVAR Bus reactor-I AT MAITHON		08:00 09:00 09:00		18:00 18:00 17:00	ODB ODB ODB	POWERGRID ER-I ER-II ER-II		
344 345 346 347	765 KV BUS-I at Gaya S/S 125 MVAR Bus reactor-I AT MAITHON 41152 BAY AT BINAGURI 400 KV TALA-Binnaguri FDR-2	21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00	21/12/17 27/12/17 26/12/17 21/12/17	18:00 17:00 17:30	ODB ODB ODB	ER-II ER-II ER-II	For isolator rectification work under S/S extn. Package Construction of fire wall BHEL CB Hydraulic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125	
344 345 346 347 348	765 KV BUS-I at Gaya S/S 125 MVRA Bus reactor-I AT MAITHON 1175 ERAY TB BUNGURI 400 KV TALA-Binnaguri FDR-2 315 MVA /CT-II AT BINAGURI	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 08:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17	18:00 17:00 17:30 17:30	ODB ODB ODB ODB	ER-II ER-II ER-II ER-II	For Isolator rectification work under S/S extn. Package Construction of fire wall BHL: GB Hydraudic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	NLDC
344 345 346 347 348 349	765 KV BUS-1 at Gaya S/S 125 MVAR Bus reactor-1 AT MAITHON 1125 BAYAT BINAGUR 400 KV TALA-Binnaguri FDR-2 315 MVA ICT-II AT BINAGURI Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 08:00 09:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17	18:00 17:00 17:30 17:30 13:00	ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II/Odisha/Sundergarh	For Isolator rectification work under S/S extn. Package Construction of fire wall BHL CB hydrautic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICAL RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB	NLDC
344 345 346 347 348 349	765 KV BUS-I at Gaya S/S 125 MVRA Bus reactor-I AT MAITHON 1175 ERAY TB BUNGURI 400 KV TALA-Binnaguri FDR-2 315 MVA /CT-II AT BINAGURI	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 08:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17	18:00 17:00 17:30 17:30	ODB ODB ODB ODB	ER-II ER-II ER-II ER-II	For Isolator rectification work under S/S extn. Package Construction of fire wall BHL: GB Hydraudic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	NLDC
344 345 346 347 348 349 350 351	765 KV BUIS-1 at Gaya S:S 125 MVAR Bus reactor-1 AT MAITHON 1125 BAYAT BINAGUR 400 KV TALA-Binnagari FDR-2 315 MVA ICT-II AT BINAGURI Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh Tie Bay-414 of 400KV Bus Reactor-I&Future at Sundargarh 125 MVAR BUS REACTOR at Rourkela	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 09:00 02:00 09:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	18:00 17:00 17:30 17:30 13:00 18:00 18:00	ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/ROURKELA	For isolator rectification work under S/S extn. Package Construction of fire wall BHL GB Hydrautic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICAL RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments.	NLDC
344 345 346 347 348 349 350 351	765 KV BUIS-1 at Gaya S:S 125 MVAR Bus reactor-1 AT MAITHON 1152 BMYAF BINAGUR 400 KV TALA-Binnaguri FDR-2 315 MVA ICT-II AT BINAGUR Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh Tie Bay-414 of 400KV Bus Reactor-1&Future at Sundargarh	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 08:00 09:00 02:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17	18:00 17:00 17:30 17:30 13:00 18:00	ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh	For isolator rectification work under S/S extn. Package Construction of fire wall BHEL CB Hydraulic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICA RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments. AMP WORK.	NLDC
344 345 346 347 348 349 350 351 352	765 KV BUIS-1 at Gaya S:S 125 MVAR Bus reactor-1 AT MAITHON 1125 BAYAT BINAGUR 400 KV TALA-Binnagari FDR-2 315 MVA ICT-II AT BINAGURI Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh Tie Bay-414 of 400KV Bus Reactor-I&Future at Sundargarh 125 MVAR BUS REACTOR at Rourkela	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 09:00 02:00 09:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	18:00 17:00 17:30 17:30 13:00 18:00 18:00	ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/ROURKELA	For isolator rectification work under S/S extn. Package Construction of fire wall BHL GB Hydrautic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICAL RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments.	NLDC
344 345 346 347 348 349 350 351 352 353	765 KV BUIS-1 at Gaya S/S 125 MVAR BUS reactor-1 AT MAITHON 1155 BVAT BINAGURI 400 KV TALA-Binnaguri FDR-2 315 MVA ICT-II AT BINAGURI Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh Tie Bay-414 of 400KV Bus Reactor-1&Future at Sundargarh 125 MVAR BUS REACTOR at Rourkela 765 KV 80 MVAR SPARE LINE REACTOR AT ANGUL	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 09:00 09:00 02:00 09:00 09:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	18:00 17:00 17:30 17:30 13:00 18:00 18:00 18:00	ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/ROURKELA ER-II/Odisha/ROURKELA	For Isolator metification work under S/S extn. Package Construction of fire wall BHL GB Hydrauic perating mechanism overhauling BHL GB Hydrauic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICA RELAX INSTALLATION Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments. AMP Work of Reactor & Bay Equipments. AMP Work Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid	NLDC
344 345 346 347 348 349 350 351 352 353 354	765 KV BUIS-1 at Gaya S/S 125 MVAR BUS reactor AT MAITHON 4152 BMYAT BINACUUR 400 KV TALA-Binnaguri FDR-2 315 MVA.ICT-11 AT BINAGURI Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh Tile Bay-414 of 400KV Bus Reactor-1&Future at Sundargarh 125 MVAR BUS REACTOR at Rourkela 765 KV 80 MVAR SPARE LINE REACTOR AT ANGUL 400KV Angul-Bolangir Line	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 25/12/17	18:00 17:00 17:30 17:30 13:00 18:00 18:00 18:00 18:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/ROURKELA ER-II/Odisha/ROURKELA ER-II/Odisha/Angul TLAM ER-II/Odisha/RAngali ER-II/Odisha/RARPADA	For isolator rectification work under S/S extn. Package Construction of fire wall BHL GB Hydrauciic perating mechanism overhauling BHL GB Hydrauciic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICA RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments. AMP WORK of Reactor & Bay Equipments. AMP Work: Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability	NLDC
344 345 346 347 348 349 350 351 352 353 354 355	755 KV BUIS-1 at Gaya S:S 755 KV BUIS-1 at Gaya S:S 755 KV BUIS-1 at BNACLUB 400 KV TALA-Binnaguri FDR-2 315 MVAIC-11 AT BUIASCURI Main Bay-413 of 400KV Bus Reactor-1 & Sundargarh Tie Bay-414 of 400KV Bus Reactor-1 & Future at Sundargarh 125 MVAR BUS REACTOR at Rourkela 765 KV 80 MVAR SPARE LINE REACTOR AT ANGUL 400KV Angul-Bolangir Line 400KV Taicher-1 Main Bay (Bay No-404) at Rengali 410 BAY(pandiabilii line main bay) at Baripada	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	18:00 17:30 17:30 13:00 18:00 18:00 18:00 18:00 18:00 17:30 17:30	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/RoyURKELA ER-II/Odisha/Royul TLAM ER-II/Odisha/Rogul TLAM ER-II/Odisha/Rogul	For Isolator meetification work under S/S extn. Package Construction of line wall BHL GB Hydrautic perating mechanism overhauling For fitting Corona King And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICA RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments. AMP WORK Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP work. AMP work	NLDC
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344 345 346 347 348 349 350 351 352 353 354 355 356 356 357 358 359 360 361	755 KV BUS-1 at Gaya S:S 125 MVAR Bus reactor-1 AT MAITHON 1152 BVA TA Bus Creator-1 AT MAITHON 1152 BVA TA BNACUR 400 KV TALA-Binnaguri FDR-2 315 MVA CT-1 AT BINAGUR Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh Tie Bay-414 of 400KV Bus Reactor-1 & Sundargarh 125 MVAR BUS REACTOR at Rourkela 765 KV 80 MVAR SPARE LINE REACTOR AT ANGUL 400KV Angul-Bolangir Line 400KV TaicLendria 10 BAY (Bus Reactor Line 400KV TaicLendria 125 KV AK In Hamitia 125 KV AK IN Line 100KV FAisLamatia 126 KV BM Line 100KV Risk-Lamatia 127 KV AK R1 100 AVR AND LINE 100 KV Risk-Lamatia 112 SV KV AK R1 100 KV Chandital ckt 2 112 XV KV AK R1 10	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 08:00 02:00 09:00 00:00 09:00 00	21/12/17 27/12/17 28/12/17 28/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	18:00 17:00 17:30 17:30 18:00 18:00 18:00 18:00 18:00 18:00 17:30 17:30 17:00 17:30 17:30 17:30 17:30 17:00 15:00 15:00 15:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul S ER-II/Odisha/Angul S ER-II/Odisha/Angul TLAM ER-II/Odisha/BARIPADA S/S KAHALGAON FARAKKA WB WB WB WB WB	For Isolator metification work under S/S extn. Package Construction of fire wall BBLG Bi Hydrauic peraiting mechanism overhauling For Intiting Corona King And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERICA. RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments. AMP WORK of Reactor & Bay Equipments. AMP Work. Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP work. AMP work AMP work AMP work AMP work Minter Maintenance Winter Main	NLDC NLDC NLDC NLDC BIHAR
344 345 346 347 348 349 350 351 352 353 354 355 356 357 355 356 357 358 359 360 361 362	755 KV BUIS-1 at Gaya S:S 755 KV BUIS-1 at Gaya S:S 755 KV BUIS-1 at Gaya S:S 755 KV BUIS-1 ALA-Binnaguri FDR-2 315 MVAIC-11 AT BUNACURI Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Bus Reactor-1 aFuture at Sundargarh Tite Bay-414 of 400KV Angul-Bolangir Line 400KV Taicher-1 Main Bay (Bay No-404) at Rengali Tite Bay-414 of 400KV Taicher-1 Main Bay (Bay No-404) at Rengali Tite Bay-414 at Line 400KV Taicher-1 Main Bay (Bay No-404) at Rengali Tite Bay-414 at Line 400KV Taicher-1 Main Bay (Bay No-404) at Rengali Tite Bay-414 at Line 400KV Taicher-1 Main Bay (Bay No-404) at Rengali Tite Bay-414 at Line 400KV Taicher-1 Main Bay (Bay No-404) at Rengali Tite Bay-414 at Line 400KV Fascure-1 At Line 400KV Fascure-1 At Line 400KV Fascure-1 Chanditata 400 Kus Bargargure-Chanditata At 2	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	09:00 09:00 08:00 08:00 09:00 00 00 09:00 00 00 09:00 00 00 00 00 00 00 00 00 00 00 00 00	21/12/17 27/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17	18:00 17:30 17:30 13:00 18:00 18:00 18:00 18:00 18:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 15:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/RouRKELA ER-II/Odisha/ROURKELA ER-II/Odisha/RongaII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII ER-II/Odisha/RongAII E	For isolator rectification work under S/S extn. Package Construction of fire wall BHEL GB Hydraulic perating mechanism overhauling For fitting Gorona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERCLAR RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments. AMP WORK of Reactor & Bay Equipments. AMP Work Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP work. PM works & relay testing Relay & CT testing Relay & CT testing Winter Maintenance Winter Maintenance	NLDC NLDC NLDC NLDC BIHAR JSEB
344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 364	Yos KX BUS-1 at Gaya S:S T25 MVA Bur scatterial AT MAITHON 41152 BAYAT BINAGURI Yos KAT BINAGURI Yos KAT BINAGURI Main Bay-413 of 400KV Bus Reactor-1 at Sundargarh Tile Bay-414 of 400KV Bay Reactor-400 at Rengali Tile Bay-414 Day Bay Bay Bay Bay Bay Bay Bay Bay Bay B	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 22/12/17 22/12/17	09:00 09:00 08:00 08:00 09:00 02:00 09:00 00	21/12/17 27/12/17 26/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 22/12/17 22/12/17 22/12/17 22/12/17	18:00 17:00 17:30 17:30 18:00 18:00 18:00 18:00 18:00 17:30 17:30 17:30 17:30 17:30 17:30 17:30 17:30 17:30 18:00 15:00 16:00 17:30 18:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Angul TLAM ER-II/Odisha/Rangali ER-II/Odisha/Sundergarh POWERGRID ER-I POWERGRID ER-I POWERGRID ER-I	For Isolator metification work under S/S extn. Package Construction of fire wall BHEL CB Hydraulic perating mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUNERENCE RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments. AMP WORK of Reactor & Bay Equipments. AMP WORK is renghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP work. AMP work. PM works & relay testing Relay & CT testing Winter Maintenance Winter Maintenance Winter Maintenance Winter Maintenance Winter Maintenance Winter Maintenance SAY AMP STATCOM CONSTRUCTION (Isolator erection) To carry out AMP work of Line Bay Equipments at Pusauli	NLDC NLDC NLDC NLDC BIHAR JSEB Bihar Bihar BiHAR
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344 346 346 347 347 348 349 350 351 352 355 356 357 355 356 357 357 358 359 360 361 362 362 363 364 365 366 367	755 KV BUS-1 at Gaya S:S 125 MVAR Bus reactor-1 AT MAITHON 145 EMVAT BINACUUR 125 MVAR Bus reactor-1 AT MAITHON 4115 EMVAT BINACUUR 400 KV FBL-8 135 MVATC-1 AT BINACUUR Main Bay-413 of 400KV Bus Reactor-1 & Sundargarh Tie Bay-414 of 400KV Bus Reactor-1 & Sundargarh 125 MVAR BUS REACTOR at Rourkela 765 KV 80 MVAR SPARE LINE REACTOR AT ANGUL 400KV Angul-Bolangir Line 400KV Taicher-1 Main Bay (Bay No-404) at Rengali 410 BAY(pandiabilli line main bay) at Baripada 132 KV Kh- Kahalgaon Line 400KV Fik-Linmatia NEW CHANDITALA: 220 kv MB I with Bus Coapler & 315 MVA TR 135 MVA TR 125 ZV KAP Ara (BSPTCL) MAIN BAY 0F 400KV SLG-1 IAT NPRN 400 kV Karapita Line Gaya S/S	21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 22/12/17 22/12/17 22/12/17 22/12/17	09:00 09:00 08:00 08:00 09:00 02:00 09:00 00	21/12/17 27/12/17 26/12/17 26/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 21/12/17 22/12/17 22/12/17 22/12/17 22/12/17	18:00 17:00 17:30 17:30 18:00 18:00 18:00 18:00 18:00 17:00 17:30 17:30 17:30 17:30 17:30 15:00 15:00 15:00 15:00 18:00 18:00 18:00 18:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/RouRKELA ER-II/Odisha/Angul SS ER-II/Odisha/Angul TLAM ER-II/Odisha/Rangali ER-II/Odisha/Rangali ER-II/Odisha/Rangali ER-II/Odisha/RARIPADA S/S KAHALGAON FARAKA WB WB WB WB WB WB WB WB WB WB WB WB WB	For Isolator metification work under S/S extn. Package Construction of fire wall BHL GB Hydrauic peraling mechanism overhauling For fitting Corona Ring And CC Ring Fitting at Loc No 122,123,124,125 FOR LATEST VERSION NUMERCAL RELAY INSTALLATION Replacement of Auxiliary switch in 400KV CB AMP WORK of Reactor & Bay Equipments. AMP WORK of Reactor & Bay Equipments. AMP Work Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability For AMP work. AMP work AMP work PM works k relay testing Realy & CT testing Winter Maintenance Winter Maintenance Winter Maintenance Winter Maintenance StatComposition StatCompositio	NLDC NLDC NLDC NLDC BIHAR JEEB Bihar BIHAR NLDC
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384	63 MVAR SUNDARGARH#1 LINE REACTOR at Rourkela	23/12/17	09:30	23/12/17	17:30	ODB	ER-II/Odisha/ROURKELA	AMP WORK OF LINE REACTOR	
205	400KV ROURKELA-SUNDARGARH#1	23/12/17	05:30	23/12/17	18:00	ODB	ER-II/Odisha/ROURKELA	FOR TAKING LINE REACTOR INTO SERVICE.	
385	400KV ANGUL-TALCHER I LINE AT ANGUL	23/12/17	08:00	23/12/17	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work.	
	400kV Angul-MERAMUNDALI LINE-1	23/12/17	08:00	23/12/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid	
387							-	tripping in future & improvement of line availability & reliability	GRIDCO
388	400kV Taicher-II Main Bay (Bay No-403) at Rengali	23/12/17	09:00	23/12/17	17:00	ODB	ER-II/Odisha/Rengali	For AMP work.	
	220 kV Balasore-II	23/12/17	09:30	23/12/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Relay retrofitting works	
389							5/5		GRIDCO
390	400KV Maithon-Kahalgaon Line 2	24/12/17	10:00	24/12/17	13:00	ODB	ER-II	Retrofitting of Diff relay, FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	
	125MVAR B/R of baripada SS	24/12/17	09:30	24/12/17	17:30	ODB	ER-II/Odisha/BARIPADA	AMP works	
391		2012010	07.00	201200	17.00	000	s/s		
	400 kV Bus-I at Baripada	25/12/17	08:30	25/12/17	17:30	ODB	ER-II/Odisha/BARIPADA	For reconnection of jumpers of GIS BUS-I	
392							S/S		
393	132 KV PURNEA - PURNEA BSPTCL#2 LINE 400 kV Patna-Barh CKT - IV AND	26/12/17 26/12/17	09:00	08/01/18 31/12/17	16:00	OCB	POWERGRID ER-I POWERGRID ER-I	GIS WORK	Bihar
394	400 kV Barh-Gorakhpur CKT - II		08:00		18:00	ODB	POWERGRID ER-I	Replacement of Porcelain Insulator with Polymer ones at Multi Circuit portion	NLDC
	Main bay of 765 KV Dharmjaygarh line -1 (bay 704) at New Ranchi	26/12/17	08:00	26/12/17	18:00	ODB	POWERGRID ER-I	AMP (17-18)	NLDC
	765kV Main Bus-Lat Pusauli	26/12/17	09:00	26/12/17	18:00	ODB	POWERGRID ER-I	AMP FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	NLDC
397	315 MVA ICT-I AT SUBHASGRAM	26/12/17	08:00	26/12/17	17:30	ODB	ER-II	Strung Bus Replacement AS A SYSTEM IMPROVEMENT SCHEME FOR STRENTHENING OF JACK BUS	WB
398	400 KV BINAGURI-Rangpo-1 with Bus 1 400KV ICT-1 & BOLANGIR LINE TIE BAY(402) AT ANGUL	26/12/17 26/12/17	07:00	26/12/17 26/12/17	18:00 18:00	ODB ODB	ER-II/Odisha/Angul SS	FOR HIGH POWER CARRYING AMP Work.	NOC REVISION
	400 KV Indravati-Jeypore line	26/12/17	08:00	26/12/17	18:00	ODB	ER-II/Odisha/Indravati	Fixing of BPI structures on BPI foundation	NLDC
401	220KV BUS-I at Rourkela	26/12/17	09:00	26/12/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP WORK	GRIDCO
4U I		1		1				Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid	GMDCU
402	400kV Angul-Bolangir Line	26/12/17	08:00	28/12/17	18:00	ODB	ER-II/Odisha/Angul TLAM	tripping in future & improvement of line availability & reliability	NLDC
403	400kV Fkk-Kahalgaon line-2	26/12/17	09:00	27/12/17	17:00	OCB	FARAKKA	CVT Replacement	
	132 KV Ara Jagdishpur 400 kV Main Bus-I at Patna	27/12/17 27/12/17	10:00 09:00	27/12/17 27/12/17	17:00 18:00	ODB ODB	POWERGRID ER-I POWERGRID ER-I	AMP Work AMP work	Bihar
	400 KV BUS -2 at New Ranchi	27/12/17	09:00	28/12/17	18:00	ODB	POWERGRID ER-I	STATCOM CONSTRUCTION (Isolator erection)	
407	220KV BUS-II at Rourkela	27/12/17	09:00	27/12/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP WORK.	GRIDCO
407	400 KV Indravati-Jeypore line	27/12/17	08:00	28/12/17	18:00	OCB	ER-II/Odisha/Indravati	Shifting or interchanging the position of LAs & CVTs and pre commissioning testing.	
408	400K BOLANGIR LINE MAIN BAY (403) AT ANGUL	27/12/17	10:00	27/12/17	18:00	ODB	ER-II/Odisha/Angul SS	AMP Work.	NLDC
410	400 kV Jeypore-Bolangir S/C Line	27/12/17	09:30	27/12/17	17:30	ODB	ER-II/Odisha/Jeypore	For AMP Works of 80MVAR L/R	NLDC
	132 kV 108 BAY (Bangriposi Line main Bay) at Baripada 400kv Kharagpur-Baripada	27/12/17 27/12/17	09:00 07:00	27/12/17 27/12/17	17:30 15:00	ODB ODB	ER-II/Odisha/BARIPADA S. WB	CT junction Box Replacement Winter Maintenance	
413	220 KV Main Bus-II at Patna	28/12/17	09:00	28/12/17	18:00	ODB	POWERGRID ER-I	AMP work	BIHAR
	765kV Fathepur L/R Bay at Pusauli 315 MVA ICT-II AT SUBHASGRAM	28/12/17 28/12/17	09:00 08:00	28/12/17 28/12/17	18:00 17:30	ODB ODB	POWERGRID ER-I FR-II	AMP FOR LATEST VERSION NUMERICAL RELAY INSTALLATION	NLDC WB
	125 MVAR Bus reactor-II AT MAITHON	28/12/17	10:00	28/12/17	17:30	ODB	ER-II	Onload testing of CSD	
417	400 KV BINAGURI-Rangpo 2 with Bus 1	28/12/17	07:00	28/12/17	18:00	ODB	ER-II	Strung Bus Replacement AS A SYSTEM IMPROVEMENT SCHEME FOR STRENTHENING OF JACK BUS FOR HIGH POWER CARRYING	NOC REVISION
							ER-II/Odisha/BARIPADA		
418	402 Bay (Keonjhar Tie bay) at Baripada	28/12/17	09:00	28/12/17	17:30	ODB	S/S	AMP works & CT JB Replacement	
		28/12/17	00.00	28/12/17	18:00	000		Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid	
419	765kV Angul-Sundargarh Line-1	26/12/17	08:00	20/12/17	18:00	ODB	ER-II/Odisha/Angul TLAM	tripping in future & improvement of line availability & reliability.	NLDC
420	Kharagpur: 315 MVA Transformer 3	28/12/17	07:00	28/12/17	15:00	ODB	WB	Winter Maintenance	
	50MVAr Reactor of keonjhar at baripada end	29/12/17	09:30	29/12/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP works	
421	50 MVAR BUS REACTOR#2 AT FARAKKA	30/12/17	08:00	31/01/18	17:30	OCB	ER-II	FOR BAY EQUIPMENT ERECTION UNDER ERSS-XV	
422	SU WIVAR BUS REACTOR#2 AT FARARRA	30/12/17	08.00	31/01/18	17.30		ER-II/Odisha/BARIPADA	FOR BAT EQUIPMENT ERECTION UNDER ER33-XV	
423	400 kV Bus-II at Baripada	30/12/17	08:30	30/12/17	17:30	ODB	S/S	For reconnection of jumpers of GIS BUS-II	
424	160 MVA ICT#3 AT PRN	01/01/18	09:00	08/01/18	16:00	OCB		GIS WORK AND AMP WORK AS PER SCHEDULE	Bihar
425	132 KV PURNEA - PURNEA BSPTCL#1 LINE	05/01/18	09:00	08/01/18	16:00	OCB	POWERGRID ER-I	GIS WORK	Bihar
		-			Dutage	s proposed	in other RPCs re	equiring ERPC approval	1
SI No	Name of Elements	Fi Date	rom Time	To Date	Time	Basis	outages proposed in	Reason	Remarks
	765kV D'JAIGARH-RANCHI I	05-Dec-17	09:00	05-Dec-17	18:00	ODB	WRPC	First time swapping of (Non-switachble) R-phase line reactor unit with Spare unit.	
									May be clubbed together.
	765kV D'JAIGARH-RANCHI I	15-Dec-17	09:00	17-Dec-17	18:00	ODB	WRPC	Rectification of open spacer cum damper, Installation of missing Arcing horn, Insulator replacement on critical location. (Compiled WITH Raigarh TLM)	.,
	765kV D'JAIGARH- JHARSUGUDA I	07-Dec-17	09:00	07-Dec-17	18:00	ODB	WRPC	Rectification of shutdown nature defects on various locations	WRTS-I
	765kV D'JAIGARH-BHARSOGODA 1	07-Dec-17 09-Dec-17	09:00	11-Dec-17	18:00	ODB	WRPC	Rectification of shutdown nature defects on total 50 Locations. (Compiled WITH Raigarh	WRTS-I
								TLM)	1-6171/4
	400kV RANCHI-SIPAT I	09-Dec-17	08:00	12-Dec-17	18:00	OCB	WRPC	For Rectification of Bend C-leg at Tower No 664, on permanent basis	SD alredy Availad
				1	18:00	OCB	WRPC	For Rectification of Bend C-leg at Tower No 664, on permanent basis	SD alrady Availed
	400kV RANCHI-SIPAT II	09-Dec-17	08:00	12-Dec-17	10.00		1	-	l
	400kV RANCHI-SIPAT II 765kV D'JAIGARH- JHARSUGUDA II		08:00	12-Dec-17 13-Dec-17	18:00	ODB	WRPC	Rectification of shutdown nature defects on various locations	WRTS-I
	765kV D'JAIGARH- JHARSUGUDA II	09-Dec-17 13-Dec-17	09:00	13-Dec-17	18:00	ODB		Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID	
		09-Dec-17					WRPC WRPC		CSPTCL
	765kV D'JAIGARH- JHARSUGUDA II D/C Korba-Budipadar CKT-I & II	09-Dec-17 13-Dec-17 13-Dec-17	09:00	13-Dec-17 14-Dec-17	18:00 18:00	ODB OCB	WRPC	Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID	CSPTCL
	765kV D'JAIGARH- JHARSUGUDA II	09-Dec-17 13-Dec-17	09:00	13-Dec-17	18:00	ODB		Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time.	
	765KV D'JAIGARH- JHARSUGUDA II D/C Korba-Budipadar CKT-I & II 220KV KORBA(EAST)-BUDDHIPADAR III	09-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17	09:00 08:00 08:00	13-Dec-17 14-Dec-17 14-Dec-17	18:00 18:00 18:00	ODB OCB OCB	WRPC WRPC	Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. For replacement of all 03(R,Y,B) 400KV BHEL make Bushing (Defective) of 50MVAR Line	CSPTCL
	765KV D'JAIGARH- JHARSUGUDA II D/C Korba-Budipadar CKT-I & II 220KV KORBA(EAST)-BUDDHIPADAR III Ballia-Biharshariff-1	09-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 04-Dec-17	09:00 08:00 08:00 08:00 09:00	13-Dec-17 14-Dec-17 14-Dec-17 05-Dec-17	18:00 18:00 18:00 17:00	ODB OCB OCB ODB	WRPC WRPC NRPC	Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. For replacement of all 03(RY,B) 400KV BHEL make Bushing (Defective) of 50MVAR Line Reactor, at Bala	CSPTCL
	765KV D'JAIGARH- JHARSUGUDA II D/C Korba-Budipadar CKT-I & II 220kV KORBA(EAST)-BUDDHIPADAR III Ballia-Biharshariff-1 Pole-2 at HVDC Vizag Pole-2 at HVDC Vizag	09-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 04-Dec-17 14-Dec-17 14-Dec-17	09:00 08:00 08:00 09:00 09:00 09:00	13-Dec-17 14-Dec-17 14-Dec-17 05-Dec-17 14-Dec-17 14-Dec-17	18:00 18:00 18:00 18:00 17:00 18:00 18:00	ODB OCB OCB ODB ODB ODB	WRPC WRPC NRPC SRPC SRPC	Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. For replacement of all 03(R,Y,B) 400KV BHEL make Bushing (Defective) of 50MVAR Line Reactor, at Balia RTV coating Works.	CSPTCL
	765KV D'JAIGARH- JHARSUGUDA II D/C Korba-Budipadar CKT-I & II 220kV KORBA(EAST)-BUDDHIPADAR III Ballia-Biharshariff-1 Pole-2 at HVDC Vizag Pole-2 at HVDC Vizag AR of 400KV Epore-Gazuwaka-1 & 2	09-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 04-Dec-17 14-Dec-17 14-Dec-17 15-Nov-17	09:00 08:00 08:00 09:00 09:00 09:00	13-Dec-17 14-Dec-17 14-Dec-17 05-Dec-17 14-Dec-17 14-Dec-17 30-Nov-17	18:00 18:00 18:00 17:00 18:00 18:00 17:00	ODB OCB OCB ODB ODB ODB ODB	WRPC WRPC NRPC SRPC SRPC SRPC	Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. For replacement of all 03(RY,B) 400KV BHEL make Bushing (Defective) of 50MVAR Line Reactor, at Balia RTV coating Works. RTV coating Works. PID Testing (Auto Reclosure to be kept in non auto mode)	CSPTCL
	765KV D'JAIGARH- JHARSUGUDA II D/C Korba-Budipadar CKT-I & II 220kV KORBA(EAST)-BUDDHIPADAR III Ballia-Biharshariff-1 Pole-2 at HVDC Vizag Pole-2 at HVDC Vizag	09-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 04-Dec-17 14-Dec-17 14-Dec-17	09:00 08:00 08:00 09:00 09:00 09:00	13-Dec-17 14-Dec-17 14-Dec-17 05-Dec-17 14-Dec-17 14-Dec-17	18:00 18:00 18:00 18:00 17:00 18:00 18:00	ODB OCB OCB ODB ODB ODB	WRPC WRPC NRPC SRPC SRPC	Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. For replacement of all 03(R,Y,B) 400KV BHEL make Bushing (Defective) of 50MVAR Line Reactor, at Balia RTV coating Works.	CSPTCL
	765KV D'JAIGARH- JHARSUGUDA II D/C Korba-Budipadar CKT-I & II 220kV KORBA(EAST)-BUDDHIPADAR III Ballia-Biharshariff-1 Pole-2 at HVDC Vizag Pole-2 at HVDC Vizag AR of 400KV Epore-Gazuwaka-1 & 2	09-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 13-Dec-17 04-Dec-17 14-Dec-17 14-Dec-17 15-Nov-17	09:00 08:00 08:00 09:00 09:00 09:00	13-Dec-17 14-Dec-17 14-Dec-17 05-Dec-17 14-Dec-17 14-Dec-17 30-Nov-17	18:00 18:00 18:00 17:00 18:00 18:00 17:00	ODB OCB OCB ODB ODB ODB ODB	WRPC WRPC NRPC SRPC SRPC SRPC	Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. Power line Crossing of U/C 765 KV D/C Jharsuguda-Korba Line-II of POWERGRID Note: Ckt-I, II & III Outages required at same date & time. For replacement of all 03(RY,B) 400KV BHEL make Bushing (Defective) of 50MVAR Line Reactor, at Balia RTV coating Works. RTV coating Works. PID Testing (Auto Reclosure to be kept in non auto mode)	CSPTCL

Annexure-D4

पावर सिस्टम ऑपरेशन कॉरपोरेशन लिमिटेड

POWER SYSTEM OPERATION CORPORATION LIMITED

(# Government of India Enterprise)

9्वी क्षेत्रीय भार प्रेषण केन्द्र, 14, गोल्फ कुन्द रोड, टालिगेज, कोलकाता 700.033 दरभाग : 033 2423 5867/5875, फैंगम : 033 2423 5809/5704/5029, ई-मेल : eddc@posoco.in / www.eddc.org EASTERN REGIONAL LOAD DESPATCH CENTRE, 14, Golf Club Road, Tollygunge, Kolkata : 709.033 Tel. : 033 2423 5867/5875, Fax : 033 2423 5809/5704/5029, E-mail : eddc@posoco.in / www.uddc.org

ERLDC/SS & MIS/2017/VDI/4617

Date: 01-11-17

Τo,

Member Secretary Eastern Regional Power Committee 14, Golf Club Road, Kolkata – 33

Sub: Reporting of voltage deviation indices (VDI) for selected Substations in ER, for October 2017. विषय: October 2017 के लिए पूर्वी क्षेत्र में चयनित सबस्टेशन के लिए वोल्टेज विचलन सूचकांक (VDI) की रिपोर्टिंग

sir/ महोदय,

Enclosed please find VDI for selected 765 & 400kV buses of Eastern Region, computed for the month of October, 2017, for deliberation in next OOC meeting of ERPC.

संलग्न ERPC की अगली OCC बैठक में विचार विमर्श के लिए, October, 2017 के लिए गणना की गई पूर्वी क्षेत्र के चयनित 765 और 400 केवी बसों के लिए VDI को ढूंढें।

आपको धन्यवाद,

आपका विश्वस्त / Yours faithfully,

(पी मुखोपाध्याय) / (P´Mukhopadhyay) ^(*) कार्यकारी निदेशक/ Executive Director



VDI of Selected 765 kV & 400 kV in Eastern Region in the month of October - 2017

,

नई र	रांची / Ranchi	New	जमशे	दपुर / Jamshi	∋dpur	मुजफ्फरपुर / Muzaffarpur			
MAY	DOIN	VDI (% of	54 A V	1415.1	VDI (% of	BE A V	RAIL I	VDI (% of	
MAX	MIN	Time)	MAX	MIN	Time)	MAX	MIN	Time)	
798	769	0.00	434	416	98.14	417	385	0.00	

बिहार	बिहार शरीफ / Bihar Sariff			नागुरी / Binag	uri	जीरत / Jeerat			
		VDI (% of			VDI (% of			VDI (% of	
MAX	MIN	Time)	MAX	MIN	Time)	MAX	MIN	Time)	
419	397	0.00	425	399	1.88	427	381	10.16	

1 114	रकेला / Rourl		ថ	यपोर / Jeypo		कोडरमा / Koderma		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
419	408	0.00	418	387	0.00	422	407	0.42

	मैथन / Maithoi						रांगपो / Rangpo			
		VDI (% of			VDI (% of			VDI (% of		
MAX	MIN	Time)	MAX	MIN	Time)	MAX	MIN	Time)		
420	403	0.00	418	396	0.00	418	394	0.00		

Annexure-D5.1

FoR Technical Committee on Grid Integration of Renewable Energy (RE), with reference to regional cooperation and other options for managing intra-day load / generation variation due to RE or otherwise -- Record of Proceedings of the meeting held on 18.8.2017.

In order facilitate implementation of Framework on Renewables at State Level, FoR constituted a Technical Committee under the Chairmanship of Shri A.S. Bakshi, Member, CERC. The mandate given to the Committee *inter alia* includes evolving a roadmap for implementation of Framework on Forecasting, Scheduling and Deviation Settlement of Wind & Solar generating stations at State Level, implementation of ABT Framework, introduction of Ancillary Services and Reserves, implementation of Automatic Generation and Primary Control etc.

2. The Technical Committee in its meeting held on 28.3.2017 at Chennai, discussed the matter related to Co-operation among States for Optimum Utilization of their Generation Resources, amongst the other issues. During the discussion, it was decided that sub-groups be constituted in the Northern Region, Western Region and Southern Region (the three RE rich regions) headed by the Member Secretaries of the respective Regional Power Committees (RPCs). The Sub-groups were mandated to examine the feasibility and modality of co-operation among States in the respective region for ensuring optimum utilization of generation resources with least cost options for balancing across the region and submit their findings before the Technical Committee.

3. A meeting of the Heads / Representatives of the Sub-Groups was convened under the Chairmanship of Shri A.S.Bakshi, Member, CERC on 18.8.2017 in CERC, New Delhi to review the progress on framework for regional co-operation. The list of participants is at **Annexure - I.**

4. The following emerged during the deliberations in the meeting:-

- Of late, the States have recognized the value of electricity resource vis-à-vis the cost of generation. Some of the States are not willing to cooperate with other States in the Region on "cost" basis.
- It was also observed that some of the Regions are predominantly "Surplus" in power, leaving little scope for co-operation within the region. This necessitates a national level framework / product for optimum resource utilization.
- Various other options for handling intra-day load / generation variation due to RE or otherwise were also discussed as at **Annexure-II**, viz. (i) Banking; (ii) DAM price on PX as reference; (iii) Pool based on VC as approved by the Regulator and on payment of cost; (iv) Pool based on VC as approved by the Regulator and on payment of MC; (v) Pool based on auction for intra-day for the rest of the day; (vi) Pool based on auction for intra-day on hourly basis; (vii) Pool based on auction for intra-day on intra-hour basis i.e for 15 min. block-wise etc.

5. During the meeting it was decided to share with all RPCs the options raised therein and seek feedback.

List of participants attended meeting of the Sub-Group under FOR Technical Committee Meeting held on 18.8.2017 under the Chairmanship of Shri A.S. Bakshi, Member, CERC

- 1. Shri A.S. Bakshi, Member, CERC
- 2. Dr. M.K. Iyer, Member, CERC
- 3. Shri M.A.K.P. Singh, Member Secretary, NRPC
- 4. Shri A. Balan, Member Secretary, WRPC
- 5. Shri S.R. Bhat, Member Secretary, SRPC
- 6. Shri S.C. Shrivastava, Chief (Engineering), CERC
- 7. Dr. S.K. Chatterjee, Joint Chief (Regulatory Affairs), CERC
- 8. Shri K.V.S. Baba, CEO, POSOCO
- 9. Shri S.K. Soonee, Advisor (POSOCO)
- 10. Smt. Shilpa Agarwal, Joint Chief (Engg.)
- 11. Shri S.S. Barpanda, GM, NLDC
- 12. Shri Samir Saxena, DGM, NLDC
- 13. Shri M.M. Chaudhari Deputy Chief (Engg.)
- 14. Smt. Shruti Deorah, Advisor (RE), CERC
- 15. Shri Anil, SRPC
- 16. Shri H.K. Pandey, S.E, NRPC
- 17. Shri Rajasekhar Devaguptapu, Regulatory Executive Officer, CERC
- 18. Shri Siddharth Arora, Research Officer, CERC

I. Options for Intra-Day / Hour Ahead transactions:

Seven options have been proposed for Hour Ahead Transactions.

Option-1: Banking

- Pros: Voluntary; No price transaction; Easy to implement
- Cons: Still bilateral; Opaque to cheaper options; True marginal cost of meeting demand not known; Elements of Cost and Value missing; No knowledge of gain or loss

Option-2: Day Ahead Market Price on Power Exchange as reference

- Pros: Well accepted reference price; Dispute free
- Cons: Very remote chance of availability of generation sources with marginal cost equal to or less than Day Ahead Market(DAM) price; Liquidity will always be an issue

Option-3: Pool, based on variable cost as approved by the Regulator and on payment of cost

- Pros: Visibility of all options for purchase decision; Dispute free as regulator approved Variable Cost (VC); All resources get paid as per their cost or marginal cost; Improvement over option 2, liquidity
- Cons: Still based on cost and not on value; VC difficult to ascertain; Merchant plants cannot participate as their tariffs are not determined by regulator

Option-4: Pool, based on variable cost as approved by the Regulator and on payment of marginal cost

- Pros: Same as Option 3; Improvement over Option 3 element of 'value' introduced because of marginal cost based payment
- Cons: VC difficult to ascertain; Merchant plants cannot participate as their tariffs are not determined by regulator; Payment based on marginal cost may lead to heart burn; still administered

Option-5: Pool, based on auction (intra-day for the rest of the day)

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of Power Exchange (PX); Discoms' decision making process; OA registry, a pre-requisite

Option-6: Pool, based on auction (hourly)

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of PX; Discoms decision making process; OA registry, a pre-requisite

Option-7: Pool, based on auction (intra-hour i.e. 15 min. block)

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of PX; Discoms' decision making process; OA registry, a pre-requisite

II. Illustration:

- a. Auction: 7.30 Hrs. 8.00 Hrs. window, transaction for <u>'rest of the day' (Intra-day :</u> Option 5) / <u>'for 9.00 10.00 Hrs.' (Hourly : Option 6)</u> / <u>'for 9.00 9.15 Hrs.' (Intra-hour : Option 7)</u>, and so on
- b. Generators can participate for sale of surplus power (over and above already scheduled on day-ahead basis)
- c. Sellers (other than generators) and buyers can participate for surplus / deficit vis-à-vis their schedule on day-ahead basis
- d. After the trade materializes under Option 5, 6 or 7 as the case may be, net schedule for the buyers and sellers shall be prepared, which will serve as reference point for DSM / UI
- e. However, payment for 'Day-ahead' transaction and <u>'Intra-day' (Option 5)</u> / <u>'Hourly'</u> (Option 6) / <u>'Intra-hour' (Option 7)</u> transactions shall be settled separately based on the schedules for the respective segments
- f. Open Access Registry and delegation of decision making authority to operating level at Discom are pre-conditions to success of this framework.
