



Minutes of 129th OCC Meeting

Date: 02.02.2017
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

Eastern Regional Power Committee

Minutes of 129th OCC Meeting held on 17th January, 2017 at ERPC, Kolkata

PART A

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

Item no. 1: Confirmation of minutes of 128th OCC meeting of ERPC held on 23.12.2016

The minutes of 128th OCC meeting were uploaded in ERPC website and circulated vide letter dated 04.01.2017 to all the constituents.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes.

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.

The list of new Transmission Elements commissioned/charged during **December, 2016** as informed by ERLDC is given below:

- 1) 400/132kV ICT-I and its associated bays at Nabinagar first time charged on no load at 19:27hrs of 02/12/16.
- 2) Unit 3 of KBUNL(Muzaffarpur) along with GT-III(250 MVA, 220/15.75kVA) synchronised on 03/01/16 at 10:10hrs as regional entity.
- 3) 220kV Gaya- Sonenagar-I charged through its original bay on 04/12/16 at 17:18hrs.
- 4) Bokaro-A Unit-I along with GT(400/21KV) was synchronised for the first time 04/12/16 at 22:44hrs
- 5) 400KV, 125MVA B/R-II at Kishanganj was charged for the first time on 07/12/16 at 18:44hrs.
- 6) 220/132kV, 100 MVA ICT-II at Muzaffarpur was idle charged for the first time in parallel with existing 100 MVA ICT-I at Muzaffarpur (for feeding power to Nepal) on 16/12/16 at 05:02hrs. Subsequently the same was loaded at 06:40hrs of 16/12/16.
- 7) 400kV RTPS-Ranchi-D/C was anti-theft charged for first time up to 63kMs from RTPS end through respective bays no 407, 408 & 409 at RTPS on 16/12/16 at 18:32hrs.
- 8) 400KV BUS Sectionalizer Bay-2 (between Bus-2 & Bus-4) at Biharsariff was charged for the first time on 16/12/16 on 20:23hrs.
- 9) 132kV Purnea-Purnea-III charged first time after re-conductoring to HTLS ACCC(Casablanca) on 20/12/16 at 18:01hrs.

- 10) LILO of 400kV D/C Binaguri-Bongaigaon line(ckt-III and IV) along with associated bays at ± 800 kV HVDC Converter station Alipurduar, Powergrid was charged for first time as per following details:

- i) Binaguri-Alipurduar 2: 19:04hrs of 22/12/16
- ii) Alipurduar-Bongaigaon 1: 20:49hrs of 22/12/16
- iii) Alipurduar-Bongaigaon 2: 21:43hrs of 22/12/16
- iv) Binaguri-Alipurduar 1: 17:57hrs of 22/12/16

- 11) 400kV Main Bus – II (Section B) at ± 800 kV HVDC Converter station Alipurduar, was charged for the first time on 22/12/16 at 18:19hrs.
- 12) Tie Bay of 400kV Alipurduar-Bongaigaon-I and Future line at Alipurduar charged for first time on 27/12/16 at 18:08.
- 13) 125MVAR BR-III at Durgapur along with its associated bay was charged for the first time on 28/12/16 at 16:10 hrs.
- 14) 220kV Kishanganj(PG)-Kishanganj_New(BSPTCL) circuit-1(Bay no-211) and circuit-2(Bay no-212) was anti-theft charged for the first time from Kishanganj_New(BSPTCL) end by keeping isolator open at Kishanganj(PG) end on 28/12/16 at 17:55hrs.
- 15) 50MVAR temporary B/R through existing tie bay of Sagardighi-II (411) at Berhampur was charged for the first time on 29/12/16 at 16:18 hrs.
- 16) 132kV Purnea-Purnea-I TL charged first time after re-conductoring to HTLS ACCC(Casablanca) on 30/12/16 at 10:23hrs.

Other constituents may update.

Deliberation in the meeting

BSPTCL updated the list as follows:

- 17) LILO of 132 KV Gopalganj-Siwan one Ckt; 18.9 km at 132/33 KV Hathua S/s along with 20 MVA, 132/33 kV transformer commissioned on 06.12.2016.
- 18) LILO on 132 KV Supoul-Phoolparas one Ckt; 18.8km at 132/33 KV Nirmali S/s along with 20 MVA, 132/33 kV transformer commissioned on 28.12.2016.
- 19) 132 kV Dalsingsarai- Bachhwara(TSS) S/c commissioned on 20.12.2016.
- 20) 50 MVA, 132/33 kV transformer at Ramnagar S/s charged on 29.12.2016
- 21) 50 MVA, 132/33 kV transformer at Masaudhi S/s charged on 20.12.2016
- 22) 50 MVA, 132/33 kV transformer at Dehri S/s charged on 25.12.2016

Further, it was informed that Nabinagar Thermal Power Project (4x250) of M/s BRBCL vide letter dated 14.01.2017 had declared their Unit #1 (250 MW) under Commercial Operation (COD) w.e.f. 15th January, 2017. Also as per ERLDC vide letter dated 13.01.2017 ascertained that BRBCL had conducted Trial Operation for COD of Unit #1 from 00:00 hrs of 03.01.2017 to 24:00 hrs of 05.01.2017.

Members noted.

Item No. B.2: 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. The latest status as updated in 34th TCC/ERPC is as given below:

SN	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	Amount approved (in Rs.)	Amount drawn till date (in Rs.)	Status as updated in 126 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	WBSETCL	Transmission System improvement of WBSETCL					
3	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.	19.53 Cr	Total contract awarded for Rs. 67.73 Cr <i>Erection work for received equipment is in progress.</i>
4	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.	1 st milestone-submission of DPR completed 2 nd milestone part completed-Operational load flow studies 7 th milestone preponed and completed-32 licenses of setting calculation tool software
5	BSPTCL	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	64.33 crore	23.68 crore	<i>Project is on going. Order for supply of equipment placed for Rs.13.51 Cr.</i>
6		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)
7		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.
8	DVC	Renovation and upgradation of control & protection system and replacement of Substation Equipment of 220/132/33 kV Ramgarh Substation			25.96		Approved by Ministry of Power
9		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.
10	WBPDC	Implementation of Islanding scheme at Bandel Thermal Power Station					Appraisal committee has recommended. It will be placed in next monitoring Committee
		Upgradation of Protection and SAS			26.09		Approved by Ministry of Power
11	OHPC	Renovation and up-gradation of protection and control system of 4 nos OHPC substations.					OHPC will submit the detailed proposal soon as per the requirement of Appraisal committee.

34th TCC/ERPC accorded post facto approval to the following three schemes of ERPC for submission to PSDF Appraisal Committee:

- 1) Training for Power System Engineers
- 2) Training on Integration of Renewable Energy resources
- 3) *Training on Power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents*

In 127th OCC, CE, NPC informed that the DPR from ERPC on training projects will be placed in the next Appraisal Committee meeting.

It was informed that techno economic sub-group has asked some observations on OHPC proposal.

OHPC informed that they will comply the observations.

Other constituents may update.

Deliberation in the meeting

The updated status was as above.

Item No. B.3: MONITORING OF SCHEMES FUNDED FROM PSDF—NPC Agenda

In the 6th meeting of NPC held on 19th December, 2016 it was decided that all the RPCs in the monthly OCC meetings may follow up with entities to expedite completion of the scheme by giving due priority. The implementation of most of these schemes are based on the recommendation of the Enquiry Committee on Grid Disturbance of July 2012 headed by Chairperson, CEA. Therefore, timely implementation of these schemes would enhance the grid security and reliability. Accordingly, the grant sanctioned from PSDF for the schemes of Eastern Region is enclosed at **Annexure-B.3(I)** for deliberation in the OCC meeting.

The status of implementation of the above schemes (physical as well as financial progress) may please be reviewed and the entities are requested to expedite implementation of the schemes. The entities may also be advised to furnish information in the format enclosed at **Annexure-B.3 (II)** by first week of every month on regular basis to Member Convener, PSDF Project Monitoring Group (AGM, NLDC, POSOCO) with a copy to NPC Division.

Constituents may update.

Deliberation in the meeting

*OCC advised all the respective constituents to furnish the status to NLDC & NPC as per the desired format as attached at **Annexure- B.3 (II)**.*

Item No. B.4: OPERATIONAL LOAD FLOW STUDY FOR OFF-PEAK PERIOD (WINTER LEAN PERIOD)

In 124th OCC, after detailed deliberation, OCC decided that all constituents should provide the relevant data for off-peak load flow study for two instances:

- 13:00hrs on 27th August, 2016 &
- 03:00hrs on 28th August, 2016

OCC advised all the constituents to update the Network Data format with network augmentation from 31st May 2016 to 31st of August 2016 in the given format.

In 126th OCC, PRDC informed that 27th & 28th August, 2016 the total regional demand figures are almost equals to peak load scenario of previous study and it cannot be treated as off-peak scenario.

OCC felt that another set of data may be collected during lean winter for simulation of off-peak load flow scenario.

Further, OCC advised PRDC to complete the study with the data of 27th & 28th August, 2016.

In 127th OCC, PRDC informed that the detailed report of load flow study on data of 26th & 28th August, 2016 will be submitted to ERPC secretariat by next week.

Further for lean off-peak load flow study, OCC finalized the date and time as follows

- 13.00 Hrs of 28th December, 2016.
- 02:00-03.00 Hrs of 29th December, 2016

GM, ERLDC informed that the overvoltage phenomenon is predominant in the month of January. So, the off-peak study may also be carried out for January so that a proper overvoltage scenario can be obtained.

After discussion, OCC decided that another study for January, 2017 may also be done apart from the December study.

In 128th OCC for lean off-peak load flow study, OCC finalized the date and time as follows

- 13.00 Hrs of 28th December, 2016.
- 02:00 Hrs of 29th December, 2016

OCC advised to submit the data as per the format available in ERPC website.

Subsequently, PRDC vide mail dated 06.01.17 submitted the Operational load flow study report for off-peak as per the data of 27th & 28th August, 2016. The same is available at ERPC website under Important Documents (i.e. www.erpc.gov.in/important-documents/)

Further, it is to inform that PRDC has also completed the installation of the Protection Database Management System (PDMS) in the ERPC server. The SAT of PDMS and pending points related to SAT of PSCT is going on as per the following schedule:

- 1) SAT of PDMS: From 11.01.2017 to 13.01.2017 (3 days)
- 2) Pending points of PSCT SAT: From 19.01.2017 to 21.01.2017 (3 days)

PRDC may update.

Deliberation in the meeting

*PRDC updated the present status of the project. The overall status of the project as on 01.01.2017 was placed at **Annexure-B.4** and the detailed progress report is available at ERPC website. PRDC also presented the results of the study report for off-peak load scenario for 27th & 28th August, 2016. A comparison of peak and off-peak load and generation scenario of ER states is placed at **Annexure-B.4A**.*

Further, OCC advised PRDC to interact with ERLDC and resolve the issue of mismatch between SCADA snapshot and Study result of peak scenario for few pockets of ER grid as per the earlier decision.

Item No. B.5: Consideration of STU lines as Non-ISTS lines carrying ISTS power

In line with 34th TCC decision, ERPC and ERLDC conducted the load flow study using WebNet software for first three quarters of validated data. Summary of the results for percentage utilization of the transmission line by STU to meet the own demand is given at **Annexure-B.5**.

Balance (100 - utilization of the transmission line by the STU) is the ISTS power flowing through the line.

128th OCC decided that ISTS power flowing through STU lines greater than 50% of the total power as per the WebNet software of the validated data for each quarter will be considered as ISTS line.

Members provisionally agreed to the above decision. OCC advised Member Secretary to have interaction with other RPCs to get acquainted with their decisions in this regard.

OCC advised all the state constituents to submit their comments if any, to ERPC and ERLDC. It was also pointed out that for final decision on the same needs to be taken by CERC and for this constituents are to file petition before CERC.

Members may update.

Deliberation in the meeting

OPTCL pointed that the PoC charges for STU lines should be calculated based on the actual ISTS power flow through STU lines as per the WebNet software of the validated data for each quarter.

However, after detailed deliberation all the STUs including OPTCL agreed that STU lines carrying ISTS power greater than 50% of the total power as per the WebNet software of the validated data for each quarter will be considered as non-ISTS line carrying ISTS power.

Further, GM-ERLDC informed that in Western Region the same principle is being followed for STU lines.

OCC requested concerned utilities to file petition before CERC in this regard with this recommendation.

Item No. B.6: Charging of 132KV Patratu(DVC) - Patratu(JSEB) tie line and Kolaghat(DVC) - Kolaghat(WBSETCL) tie line--DVC

It has been observed that 132KV, Patratu(DVC) - Patratu(JSEB) tie line and Kolaghat(DVC) - Kolaghat(WBSETCL) tie line are out since long. These lines are made on request to facilitate any shut-down/ maintenance purpose.

But, inter-state tie lines are meant for stability of any state network irrespective any power flow through it as per sec 40(a) of Elec Act 2003. It is learnt that at Kolaghat S/s of WBSETCL, all three ATRs have already been replaced and are all in service. DVC is supplying around 138MVA load to WBSEDCL between Burdwan S/s to Kharagpur S/s of DVC and it has been felt necessary that Kolaghat - Kolaghat tie be kept in service for reliability of power supply to WBSEDCL and stability of the grid. Similarly, Patratu(DVC) - Patratu(JSEB) tie line be also kept in service to obviate the low voltage problem at Patratu and North-karanpura S/s of DVC and stability of grid as well.

128th OCC felt that inter-state lines should be utilized to improve the reliability of the system and advised WBSETCL and JUSNL to charge 132KV Kolaghat(DVC) - Kolaghat(WBSETCL) and 132kV Patratu(DVC) - Patratu(JSEB) lines on continuous basis.

WBSETCL informed that 132kV Kolaghat(DVC) - Kolaghat(WBSETCL) line is being utilized during contingencies in radial mode and informed that ICT at Kolaghat may overload if the line charged in synchronous mode.

OCC advised to conduct a simulation study to verify the constraint before charging the line in synchronous mode. WBSETCL agreed.

DVC vide mail dated 10.01.17 informed that West Bengal SLDC has not agreed with synchronisation of DVC system with WBSETCL via 132kV network due to non availability of 132kv circuit breaker at WBSETCL end and high loading of 132kv KTHP - Kolaghat(WBSETCL) D/C with present peak load of Kolaghat S/S (above 130MW with traction)

DVC and WBSETCL may update.

Deliberation in the meeting

JUSNL informed that charging attempt for Patratu(DVC) - Patratu(JSEB) tie line will be taken by end of January, 2017.

Regarding Kolaghat(DVC)- Kolaghat(WBSETCL) line, OCC preferred to carry out a simulation study to know the cause of constraints.

Item No. B.7: Finalizing the methodology for computation of TTC, ATC and TRM— Agenda by NRCE

A sub-group of National Reliability Council for Electricity (NRCE) constituted for the purpose of determination of TCC, ATC and TRM and to suggest a clear methodology for the calculation. A meeting of this sub-group was held on 19th September, 2016 and sought the following information from the RPCs.

NRCE sub group felt that distribution of nodal MW and MVAR is important for computation of TTC. Advised RPCs to take up the issue with all the states to submit the accurate data at all generation and demand nodes of the power system in the state. Constituent wise peak and off-peak data of generation and demand was circulated accordingly.

In 127th & 128th OCC advised all the constituents to verify the node data and submit node wise (both peak & off-peak) data for the 3rd month in advance so that a realistic calculation of TCC,ATC,TRM will be possible.

Members may update.

Deliberation in the meeting

GM, ERLDC pointed that PoC input data available at NLDC are already submitted and verified by states & therefore can be used for the above purpose.

All constituents agreed that the NLDC data may be used for computation of TTC, ATC and TRM by sub-group of NRCE.

Item No. B.8: HIGH AMOUNT OF DEVIATION CHARGES PAYABLE BY BSEB ON ACCOUNT OF M/s. TALA HEP

SBPDCL vide letter dated 07.01.17 informed that the deviation charges incurred by M/s TALA HEP are to be borne by its beneficiaries, and BSEB being a major beneficiary, having a share of 25.5% has to bear a major portion of these deviation charges.

For the last 8 weeks, it has been observed, to their great concern that the deviation charges incurred by M/s TALA HEP have been continually high, amounting to as high as few crores per week. A summary report of the amount incurred by M/s TALA HEP as deviation charges, and consequently the amount to be borne by BSP(H)CL erstwhile BSEB, is attached as a table at **Annexure- B.8.**

From the statistics in this table; & discussion with ERLDC, it was concluded that a major percentage of bill for UI & Deviation payable by BSP(H)CL erstwhile BSEB, is on account of huge deviation charges incurred by M/s TALA HEP.

As such, ERLDC should keep scheduled generation near to actual generation or devise a mechanism to make deviation zero or minimum. Beneficiaries should not be charged for the high

declared capacity (DC) given by TALA or CHUKHA HEP, as they are not responsible for the high mismatch between scheduled generation and actual generation of Bhutan generating station.

So, it is requested that the future scheduling for power purchase on behalf of M/s TALA HEP and M/s CHUKHA HEP should be done keeping in mind the concerns of its beneficiaries.

Members may discuss.

Deliberation in the meeting

MS, ERPC assured that the matter is under consideration and will be resolved at the earliest.

Item No. B.9: HIGH VOLTAGE PROBLEM IN 400KV MERAMUNDALI GRID S/S: REGARDING

GRIDCO vide letter dated 07.01.17 intimated that presently Odisha is going through very high voltages at 400kV bus of Meramundali, Duburi and Mendhashal grid S/S. The situation is further worsened due to high reactive power flow from Meramundali to Angul pooling sub-station, from Duburi to Meramundali sub-station and from Kuchei to Duburi sub-station. It may be noted that, PGCIL has installed two nos. of 330 MVAR Bus reactors at Angul 765kV substation and two nos. of 125 MVAR Bus reactors at Ancul 400kV substation, thus resulting high reactive power flow from Meramundali to Angul & Duburi to Meramundali grid S/S. In view of the above OPTCL suggests the following as short term and long term measures to mitigate the high voltage issue as well as to improve the high reactive power flow situation.

Short term measure

- OPTCL will install 80 MVAR reactor at Meramundali 400kV S/S.
- The Angul-Meramundali Double circuit tie to be opened at both ends.

Long term measure

- The Meramundali-Angul Double circuit will be terminated at Meramundali (B). A letter regarding the above change has already been forwarded to CEA and will be placed in the next Standing Committee meeting of CEA. Meremundali(B) will be a new 400kV substation of OPTCL, approved by CEA and the work order to be issued shortly.

In view of the above and as the high voltage situation is menacing, it is requested to grant permission for the short term measures, mentioned above, to get relief from the high voltage issue and high reactive power flow. The system in the above condition will remain stable.

Members may discuss.

Deliberation in the meeting

OPTCL informed that they are incurring substantial financial loss on account of reactive charges due to this overvoltage problem at 400 KV Meramundali substation and requested to explore the high voltage scenario by opening of 400 kV Angul-Meramundali D/C tie on trial basis.

ERLDC informed that the same may be granted as per real time grid conditions.

Further, OPTCL requested OCC to take up the issue of opening of LILOs of 400 kV Talcher-Meramundali & Bolangir –Meramundali lines at 765/400 kV Angul S/s which was already decided in 17th SCM meeting.

OCC viewed that as it is the matter related to Standing Committee of ER the same may be taken up with CEA/CTU.

MS assured to interact on this issue with CTU.

Item No. B.10: Status of UFRs healthiness installed in Eastern Region

UFR Healthiness Certification for the month of December, 2016 has been received from OPTCL, JUSNL, WBSETCL, CESC and DVC.

33kV Raytar feeder at 132kV Rajgir is not in service and 33kV Silao has been considered as UFR feeder. BSPTCL may update the UFR feeders list.

BSPTCL may update.

Deliberation in the meeting

UFR healthiness certification for December, 2016 has been received from all constituents.

Item No. B.11: Healthiness of SPS existing in Eastern Region

NTPC, GMR, & CESC have submitted the healthiness certificate for the month of December, 2016.

Chuzachen, Vedanta, JITPL, Powergrid-Odisha & Powergrid ER-II may submit the healthiness certificate for December, 2016.

Respective members may update.

Deliberation in the meeting

SPS healthiness certification for December, 2016 has been received from all the respective constituents.

On query about SPS at 400kV level at Rangpo S/s for reliable power evacuation through 400kV Rangpo – Siliguri D/c, Powergrid informed that the SPS at Rangpo substation has been completed and the extension of signal to respective generation stations have been tested.

However, ERLDC informed that the SPS scheme for unit trip/ generation reduction has been received from Teesta-III & Chuzachen. The scheme details are yet to be received from Jorethang, Dikchu and Tashiding HEPs.

OCC advised all generators to share the details with ERLDC & to comply other requirements as per decision of the special meeting of 14.10.16 & 30.11.16 so that there should not be any delay in doing commercial transactions by concerned generators

Item No. B.12: Status of Islanding Schemes of Eastern Region

B12.1. 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, WBPDC
3. Tata Power Islanding Scheme, Haldia
4. Chandrapura TPS Islanding Scheme, DVC

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

The healthiness certificate for Islanding Scheme for November, 2016 has been received from CTPS, DVC, BkTPS, Tata Power and CESC.

Members may note.

Deliberation in the meeting

Members noted.

B12.2. FSTPS Islanding Scheme, NTPC

In 123rd OCC, NTPC informed that cable laying completed and interfacing is pending. Interfacing will be done after completion of the PLCC installation work by PGCIL at JUSNL sub-stations.

In 125th OCC, Powergrid informed that PLCC installation work has been completed and commissioning is under progress.

In 126th OCC Powergrid informed that the PLCC installation work has been completed and commissioning will be done by 1st week of November, 2016.

NTPC informed that after the commissioning of PLCC, they may require another 30-40 days to complete the cable termination and integration work. After the completion of installation work a special meeting may be convened to co-ordinate the complete implementation of the Islanding scheme.

OCC decided that a special meeting may be convened in after the completion of all installation and cable termination work by NTPC so that the Islanding scheme could be commissioned by December, 2016.

In 127th OCC, Powergrid informed that the work under the scope of JUSNL has been completed.

NTPC informed that the integration of cables at their end is going on and it may take another one month to complete it.

OCC decided that a special meeting may be convened after the completion of cable termination work by NTPC

In 128th OCC meeting it was informed that progress of the islanding scheme is being monitored at Ministry level and ERPC Secretariat has already communicated the completion schedule as December, 2016.

OCC took serious note of extending the completion schedule of the islanding scheme in the last moment.

OCC felt that NTPC is not serious about implementation of the islanding scheme advised NTPC to submit their complete action plan to ERPC and ERLDC.

Subsequently NTPC submitted that

QUOTE

Regarding Farakka Islanding scheme, Cabling work has been done up to unit control room but final hooking with C&I system is pending. After evaluating every aspect, NTPC Farakka is of the view that the connection to C&I system is to be done during unit overhaul only so that proper checking of control system response can be done by simulation. Due to this, there has been a revision of the plan at our end. Our overhauling plan as of now, has been informed through our earlier mail yesterday. We shall hook units one by one during these overhauls.

UNQUOTE

OCC advised NTPC to explore final hooking up with C&I system at an opportune S/D time of the unit.

NTPC may update.

Deliberation in the meeting

NTPC explained that after final hooking up with C&I of units they have to conduct dry simulation for checking the successful operation of the scheme which can only be carried out during overhauling.

Further, they informed that the maintenance programme of U#1 is scheduled from 10th March, 2017. so the hooking up with unit-I will be completed by March, 2017 and the Islanding scheme will be operational. Unit#2 and Unit #3 will be hooked in April, 2017 and June/July, 2017 respectively during their overhauling.

OCC advised NTPC to strictly maintain the schedule so that the FSTPS islanding scheme can be put into service w.e.f. March, 2017.

B12.3. Bandel Islanding Scheme, WBPDC

In 33rd TCC, WBPDC informed that DPR has been submitted to NLDC on 22-06-2016 for funding from PSDF.

Subsequently, PSDF Secretariat vide mail dated 07.10.2016 informed that the Scheme was examined on 28.09.2016 and has sought some clarification from WBPDC.

In 127th OCC, WBPDC informed that clarification has been submitted.

It was informed that the Appraisal committee has recommended. It will be placed in next Monitoring Committee

In 128th OCC, it was informed that the PSDF Appraisal committee has accepted the proposal and forwarded to CERC.

WBPDC may update the latest status.

Deliberation in the meeting

WBPDC informed that the PSDF Appraisal committee has accepted the proposal and forwarded to CERC.

Item No. B.13: Restoration of PLCC system of important lines

In 119th OCC, JUSNL informed that the following:

- a) In 220 KV Chandil –Santaldih line auto-reclosure has been enabled and termination done in PLCC panels at Chandil end but due to non-availability of PLCC panels at Santaldih(WBPDC) end the A/R and PLCC scheme could not be activated.
- b) In 220 KV Ramchandrapur-Joda line auto-reclosure has been enabled and termination done in PLCC panels at Ramchandrapur end but due to non-availability of PLCC panels at Joda (OPTCL) end the A/R and PLCC scheme could not be implemented.

Further, it was informed that JUSNL is ready to share their standby PLCC panels (BPL make) with WBPDC (for Santaldih end) and OPTCL (for Joda end) to complete the PLCC schemes of both the above lines.

In 34th TCC, WBPDCCL informed that PLCC panels will be delivered by November, 2016 and installation of the panels will be completed by December, 2016.

OPTCL informed that purchase order has been placed to BPL and supply is expected by December, 2016.

In 128th OCC, WBPDCCL informed that PLCC system will be installed by end of December, 2016.

OPTCL informed that PLCC panels will be installed by 2nd week of January 2017.

JUSNL/OPTCL/WBPDCCL may update.

Deliberation in the meeting

OPTCL informed that PLCC panel will be commissioned by January, 2017.

WBPDCCL informed that PLCC system at Santaldih end has been commissioned on 31.12.16 but the same could not be put into service due to some problem at Chandil (JUSNL) end LMUs and CVT points.

JUSNL informed that new LMUs will be commissioned within 10 days.

OCC advised JUSNL to complete the PLCC commissioning at the earliest.

Item No. B.14: Concerned members may update the latest status.

B.14.1: Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)

In 126th OCC, Ind-Bharath informed that the CEA inspection for the line has been completed on 17.10.16 and PLCC work is in progress. They are expected to complete the line in all respect by first week of November, 2016.

OCC advised IBEUL to submit all the clearances (CEA clearance etc.) along with completion of line and communication system so that a special meeting could be convened before starting the commercial power transaction from IBEUL for final consideration of all aspects.

In 34th TCC, it was informed that construction of line has been completed but CEA clearance is still awaited.

In 128th OCC, IBEUL informed that the line will be commissioned by January 2017.

IBEUL may update.

Deliberation in the meeting

IBEUL informed that the commissioning is delayed due to severe ROW problems however, it is expected to be commissioned by February 2017.

B.14.2: Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In 34th TCC, Vedanta explained the status of construction with a presentation. Updated status along with the target date is given below:

Activities	Nos	Status as on 15-Nov-16	Target completion	Remarks
Tower Foundation	64	60	30-Dec-16	4 DD+30 tower foundation concrete: volume increased from 742 m3 to 1118 m3
Tower Erection	64	51	10-Feb-17	757 MT balance tower material to be erected.(DD+30 is 7)
Stringing /OPGW Cabling & Testing	20.5 Km	2.3 Km completed.	28-Feb-17	Stringing can be started only after harvesting. i.e. Dec-16.
Sub station Bay	2	Equipment Erection, Cable Trench, Earthing Completed	Jan, 17	CR Panel erection, cabling & termination to be done, Testing to be carried out. CEA inspection to be done post completion
Statutory clearances	-	-	15-Mar-17	CEA inspection of line to be done Report generation to be done.
Line & Bay Charging	-	-	25-Mar-17	ERLDC clearance for line charging after attending CEA report punch points

Vedanta informed that significant progress has been made in last 5 months and the line will be commissioned by March, 2016. Vedanta requested to extend the removal of the LILO till March, 2017 as final commitment.

OPTCL added that since Vedanta has made substantial progress during last 5 months and the dead line for removal of the LILO may be extended till February, 2017.

TCC agreed and advised Vedanta to submit a fresh undertaking in affidavit form to CTU and ERPC stating that the dedicated line will be completed by 28.02.2017 with no further extension. Failing which, CTU/ERLDC is authorized to open the LILO with effect from 01.03.2017.

In 127th OCC, Vedanta updated that 43 towers erection have been completed.

OCC advised Vedanta to submit the affidavit as per the decision of 34th TCC latest by 30.11.2016.

OCC also advised Vedanta to complete the line by February,2017 as decided by ERPC. Vedanta assured.

Vedanta vide mail dated 03.01.17 updated the latest status. The latest status is enclosed at **Annexure-B.14.2.**

Vedanta may update.

Deliberation in the meeting

Vedanta updated the status as in the above table.

B.14.3: Status of Bus Splitting schemes in Eastern Region

A. Bus Splitting of Powergrid Sub-stations

As per decision of Standing Committee of ER CTU was entrusted to do Bus splitting at 400 kV 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—Foundation work has been completed but shutdown are yet to be received to complete the work.

In 34th TCC, Powergrid informed that they have applied for bus shutdown of 400kV Biharsharff S/s for 28th November, 2016. OCC has already concurred the shutdown but BSPTCL is yet to give the clearance.

In 127th OCC, Powergrid informed that they are availing shutdown from 28.11.16.

In 128th OCC, Powergrid informed that bus splitting scheme has been implemented for Bus-II of 400kV Biharsharff S/s and Bus-I will be completed by 2nd week of January 2017.

Powergrid/BSPTCL may update.

Deliberation in the meeting

Powergrid informed that bus splitting scheme for Bus-I will be completed by February, 2017.

B.14.4: 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 bus-splitting 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 package awarded, expected to be completed by November, 2016.
- Transformer package and Shunt reactor– have been awarded.

In 127th OCC, NTPC informed that the bus splitting will be completed by December, 2018.

In 128th OCC, NTPC informed that site levelling of 400kV side has been completed and 132kV side would complete by 31st March, 2017.

NTPC may update.

Deliberation in the meeting

NTPC informed that site levelling has been completed and the target date for final completion will be maintained.

B.14.5: 11KV Auxiliary power supply of 400KV Berhampore Powergrid Substation.

In 34th TCC, WBSEDCL informed that the construction of dedicated line has been delayed due to ROW issues. The same has been resolved now and the construction of dedicated line will be completed by December, 2016.

WBSEDCL added that cable needs to be laid out for highway crossing for which cost estimate will be given to Powergrid within a week.

Powergrid agreed to do the payment after receiving the estimate.

WBSEDCL assured that on receipt of deposit from Powergrid all efforts will be made to resolve the issue on reasonable time.

In 128th OCC, WBSEDCL informed that work is in progress. PGCIL informed that requisite amount will be deposited shortly.

WBSEDCL/Powergrid may update.

Deliberation in the meeting

PGCIL informed that requisite amount will be deposited by tomorrow (i.e. 18.01.2017). WBSEDCL informed that work is in progress and expected to be completed by another 10 days..

B.14.6: 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.

In 126th OCC, OPTCL updated the completion schedule of inter-connecting system as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	2x315MVA 400/220kV Bolangir S/s	
a.	LILo of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir S/S	Only 7 towers left (Severe ROW problem). By Mar, 2017.
b.	LILo of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S	Charged on 04.05.16
2.	400/220 kV Keonjhar S/S	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	By 2017.
b.	Keonjhar (PG)-Turumunga (OPTCL) 220kV D/C line	By 2019.
3.	400/220kV Pandiabil Grid S/s: Expected by June'16	
a.	Pratapsasan (OPTCL)-Pandiabil (PG) 220 kV D/C line	Dec, 2017.
b.	LILo of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	March, 2017

OPTCL may update.

Deliberation in the meeting

OPTCL updated the status as above.

B.14.7: 220 kV inter-connecting lines of JUSNL with 2x315 MVA, 400/220 kV sub-stations at Chaibasa, Daltonganj & Dhanbad

In 125th OCC, JUSNL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	Chaibasa 400/220kV S/s	
a.	Chaibasa (POWERGRID) – Chaibasa (JUSNL) 220kV D/c	Completed.
b.	Chaibasa (POWERGRID) – Ramchandrapur (JUSNL) 220kV D/c	March, 2017
2.	Daltonganj 400/220/132kV S/s: Expected by Mar'17	
a.	Daltonganj (POWERGRID) – Latehar 220kV D/c	By Dec, 2017.
b.	Daltonganj (POWERGRID) – Garhwa 220kV D/c	Matching with S/s

C	Daltonganj (POWERGRID) – Daltonganj (JUSNL) 132kV D/c	Matching with S/s
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

JUSNL may update.

Deliberation in the meeting

JUSNL updated the status as above.

B.14.8: 220 kV inter-connecting lines of WBSETCL with 400/220 kV, 2x315 MVA Alipurduar & 2x500 MVA Rajarhat sub-stations

In 126th OCC, WBSETCL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	2x315MVA, 400/220kV Alipurduar sub-station	
a.	Alipurduar (POWERGRID) – Alipurduar (WBSETCL) 220kV D/c (<i>Twin moose</i>)	April, 2017
2.	2x500MVA, 400/220kV Rajarhat --- by Feb, 2017	
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
c.	Rajarhat- Barasat (WBSETCL) 220 kV D/C line	June, 2018

WBSETCL may update.

Deliberation in the meeting

WBSETCL updated the status as above.

Item No. B.15: Third Party Protection Audit

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	16	47.06
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

Members noted for compliance.

2. Schedule for 2nd Third Party Protection Audit:

The latest status of 2nd Third Party Protection audit is as follows:

1) Jeerat (PG)	Completed on 15 th July 2015
2) Subashgram (PG)	Completed on 16 th July 2015
3) Kolaghat TPS (WBPDCCL)-	Completed on 7 th August 2015
4) Kharagpur (WBSETCL) 400/220kV -	Completed on 7 th August 2015
5) Bidhannagar (WBSETCL) 400 &220kV	Completed on 8 th September, 2015
6) Durgapur (PG) 400kV S/s	Completed on 10 th September, 2015
7) DSTPS(DVC) 400/220kV	Completed on 9 th September, 2015
8) Mejia (DVC) TPS 400/220kV	Completed on 11 th September, 2015
9) 400/220/132kV Mendhasal (OPTCL)	Completed on 2 nd November, 2015
10) 400/220kV Talcher STPS (NTPC)	Completed on 3 rd November, 2015
11) 765/400kV Angul (PG)	Completed on 4 th November, 2015
12) 400kV JITPL	Completed on 5 th November, 2015
13) 400kV GMR	Completed on 5 th November, 2015
14) 400kV Malda (PG)	Completed on 23 rd February, 2016
15) 400kV Farakka (NTPC)	Completed on 24 th February, 2016
16) 400kV Behrampur(PG)	Completed on 25 th February, 2016
17) 400kV Sagardighi (WBPDCCL)	Completed on 25 th February, 2016
18) 400kV Bakreswar (WBPDCCL)	Completed on 26 th February, 2016
19) 765kV Gaya(PG)	Completed on 1 st November, 2016
20) 400kV Biharshariff(PG)	Completed on 3 rd November, 2016
21) 220kV Biharshariff(BSPTCL)	Completed on 3 rd November, 2016

The list of observations for the above sub-stations is already available at ERPC website (www.erpc.gov.in). Respective constituents are requested to comply and submit the report to ERPC for regular update.

Members may note.

Deliberation in the meeting

Members noted.

Item No. B.16: Inspection of Under Frequency Relays (UFR)

In 124th OCC, DVC informed that the UFR relays will be delivered by August, 2016 and the UFRs at 220/132/33 KV Ramgarh S/s will be replaced by next month.

In 125th OCC, DVC informed that the UFR relays are in transit and the UFRs at 220/132/33 KV Ramgarh S/s will be replaced by next month.

In 127th OCC, DVC informed that the UFR relays at 220/132/33 KV Ramgarh S/s will be replaced by December, 2016.

In 128th OCC, DVC informed that the UFR relays at 220/132/33 KV Ramgarh S/s will be replaced by January, 2017.

DVC may update the status.

Deliberation in the meeting

DVC informed that the UFR relays at 220/132/33 KV Ramgarh S/s will be replaced by January, 2017.

The proposed UFR audit schedule for Third quarter of 2016-17 is placed below:

Sl No	Proposed Date	Substation/feeder inspected by the sub-group
1	Jan, 2017	220/132/33 KV Sampatchak of BSPTCL
2		132/33 KV Purnea of BSPTCL
4	Feb 2017	220/132/33 KV Kalyaneswari of DVC
5		220/132/33 KV New Bishnupur of WBSETCL
6		132/33 KV Old Bishnupur of WBSETCL
7	Mar 2017	BRS (Liluah S/Stn.) of CESC

Members may decide.

Deliberation in the meeting

Members noted.

Item No. B.17: 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 and comply.

Deliberation in the meeting

Members noted.

Item No. B.18: 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.

In 85th OCC NTPC informed that, NTPC-Farakka has been certified with IS 18001. Other constituents including OHPC requested to interact with BIS with intimation to ERPC and get certified as per CEA direction. The matter is getting reviewed by highest authorities with top priority.

In 88th OCC NTPC informed that, all NTPC stations in Eastern Region are certified with IS 18001. NHPC informed that, Teesta is also certified with IS 18001. After that, OHPC and CESC informed that their stations are certified with IS18001.

In 104th OCC, WBPDCCL informed that Bandel TPS is certified with IS 18001.

OPTCL vide letter No. TB-SO-MISC-9/2010/1914 dated 20.12.2014 had proposed to go for IS 18001:2007 certification as per direction of CEA.

In 113th OCC, CESC informed that Budge-Budge Generating station (3x250 MW) has renewed their certification of BS 18001:2007.

In 121st OCC, it was informed that Kolaghat Generating station of WBPDCCL has also received certification of IS 18001:2007 from BIS on 29.04.2016.

In 124th OCC, WBPDCCL informed that Bakreswar Generating station is also received certification of IS 18001:2007 from BIS.

Members may note and update the status.

Deliberation in the meeting

Members noted.

Item No. B.19: FORMULATION OF A SKILL PLAN FOR POWER SECTOR BASED ON THE ASSESSED SKILL GAP IN THE SECTOR

CEA vide letter dated 04.07.16 intimated that a meeting on the above subject was held in the Ministry of Power, New Delhi on 1st July,2016. The meeting was Chaired by the Additional Secretary Shri B.P.Pandey. Power Sector Skill Council (PSSC) made a presentation on the subject. The meeting was attended by the representatives of BEE, PSUs, CEA, PGCIL, NPTI, PFC etc.

The main emphasis made by the Additional Secretary are as follows:

- The Report has to be submitted by PSSC by 10th of July, 2016 clearly indicating the needs of training and skill gaps in power sector.
- All the data captured, analysis made and other facts in the draft skill plan have to be validated by CEA before finalization of the Report.

In this regard officials from PSSC may visit various formations of CEA and / or circulate the Draft Report for obtaining the relevant inputs and validation of the data gathered by them. Chairperson CEA has been apprised of the same.

Further to this, MoP vide their letter No.7/5/2015-T&R dated 01.07.2016 have sought information in the matter. Based on the letter of MoP a proforma has been prepared. It is requested that the

relevant information pertaining to the sector/sub-sector as per the attached proforma (Attached at **Annexure-B.19**) may please be sent to CEA (by mail: ceahrd@gmail.com).

124th OCC advised all the constituents to send the relevant information as per the proforma.

Constituents may note and comply.

Deliberation in the meeting

Members noted for compliance.

Item No. B.20: Energy Generation data management from Renewable Energy Sources

RES development Division, CEA has been receiving monthly generation details and installed capacity of Renewable Energy Sources from respective SLDCs and other authorized agencies. Some discrepancies has been found in the data as received by CEA and MNRE.

Constituents are requested to reconcile/confirmed the correct information at the earliest.

In 120th OCC, all the SLDCs were advised to submit the data to CEA as per the format given in **Annexure- B.20** with a copy to ERPC Secretariat.

In 121st OCC, SLDC West Bengal and SLDC Odisha informed that they have submitted the relevant data to CEA.

SLDCs may update.

Deliberation in the meeting

Members noted for compliance.

Item No. B.21: Compilation of data for meeting Renewable Energy targets of 175 GW by 2020 -- Reference from MNRE

CEA vide letter dated 29.03.16 has referred Ministry of Power letter no. 23/2/2005-R &R(Vol-XI), dated 22.03.2016 & MNRE letter dated 02.03.2016 regarding compilation of data for meeting Renewable Energy targets of 175 GW by 2020.

Concerned State Utilities /Generating companies are requested to submit data of their respective control areas.

Members may update.

Deliberation in the meeting

Members noted for compliance.

Item No. B.22: Reporting of Energy generated from renewable resources on daily basis--- ERLDC

Government of India has set an ambitious target to achieve 175 GW of renewable generation by year 2022. Renewable energy sources(RES) development division of CEA alongwith MNRE is continuously monitoring the progress in installation of renewable resources and also collecting actual generation data on monthly basis. However the energy injected from the renewable generating plants into the grid also needs to be monitored on daily basis and incorporated in the reports by NLDC, to determine the correct percentage of energy mix for whole country on any particular day. Thus the renewable generators/ concerned SLDC may furnish following data on daily basis:

- a) Grid connected RES whose scheduling and metering is done as regional entity : Maximum/Time and energy injected(MWh) for the previous day (from the SEM meters on a daily basis till the AMR is commissioned/working)
- b) Grid connected RES which is under state purview: Maximum/Time and energy injected(MWh) for the previous day. Concerned SLDCs to compile station wise / connection point wise energy injected into the state grid and send it RLDC on a daily basis.

The above data may be sent by mail to erldc.cal@gmail.com positively by 01:00hrs of the day i.e. data for the previous day. This is essential as the power supply report has to be sent by early morning hours for the previous day.

In 126th OCC, ERLDC informed that the data for renewable generation on daily basis is required from the constituents.

SLDC Odisha informed that generation data for renewable energy sources connected at 132 kV is possible but at lower voltage level connected to the distribution network is difficult to get. Moreover, the data on monthly basis is possible instead of daily basis.

WBSEDCL informed they will look into the matter and submit the renewable generation data to ERLDC.

OCC advised all the respective constituents to submit the data along with their comments, if any.

In 127th OCC, ERLDC informed that though they have received some data, but generation data on daily-basis is yet to be furnished by the respective generators.

OCC advised all the respective constituents to look into the matter and make possible to submit the data on daily-basis.

In 128th OCC, ERLDC informed that they are receiving the requisite data from Odisha and NTPC Talcher stations.

OCC advised all the other SLDCs to submit the data to ERLDC.

All SLDCs may kindly update.

Deliberation in the meeting

West Bengal informed that they will submit the information soon.

OCC advised all the other SLDCs to submit the data to ERLDC.

Item No. B.23: 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 Position 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.

For the month of December, 2016 data has been received from OPTCL, DVC, WBSETCL, CESC.

JUSNL & BSPTCL may furnish the data.

Deliberation in the meeting

JUSNL and BSPTCL agreed to furnish the data.

Item No. B.24: Recovery Procedures of ER Constituents – ERLDC

As per IEGC clause 5.8 (b) “Detailed plans and procedures for restoration after partial/total blackout of each user’s/STU/CTU system within a Region, will be finalized by the concerned user’s/STU/CTU in coordination with the RLDC. The procedure will be reviewed, confirmed and/or revised once every subsequent year”.

In 117th OCC, ERLDC informed that all STUs have to develop their own restoration plan and procedure of their state in coordination with ERLDC/ERPC.

If such restoration plans are already available, it may be shared with ERLDC.

The restoration procedure received from all the state constituents except Bihar.

Bihar and ERLDC may update.

Deliberation in the meeting

Bihar submitted the recovery procedure plan.

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.

In 120th OCC, DVC informed that they are providing the monthly TTC/ATC on their website.

WBSETCL informed that they are calculating the TTC/ATC but their website is under construction.

Bihar and OPTCL agreed to implement.

JUSNL informed that they are unable to compute the TTC/ATC for their state.

OCC advised JUSNL to interact with ERLDC to get acquainted with the ATC/TTC calculation.

In 33rd TCC Meeting, respective members updated the status as follows:

- All the states are computing TTC/ATC except Sikkim and JUSNL.
- DVC is calculating and uploading in DVC website.
- BSPTCL is calculating and uploading through a link in BSPHCL website.
- WBSLDC is calculating but they could not upload due to non-readiness of website.
- OPTCL is calculating and uploading in website.

TCC felt that grid operator should have the information on how much power they can export and import and they should restrict to that figures in order to avoid major grid disturbances.

Accordingly, TCC advised all the constituents to place the details in monthly OCC meetings till they upload the information in their respective websites.

TCC advised JUSNL to send their representatives to ERLDC so that they could get acquainted with the ATC/TTC calculation procedure. Representative from JUSNL informed that they are ready to send three officers to ERLDC, the names of officers would be shared in tomorrow's ERPC meeting.

123rd OCC advised all the SLDCs to mention the constraints along with ATC/TCC figures.

124th OCC advised all the SLDCs to mention the constraints along with ATC/TCC figures.

In 126th OCC, OCC *advised all the SLDCs to mention the constraints along with ATC/TCC figures.*

WB, SLDC has uploaded monthly Import TTC/ATC figures for October, November and December 2016.

OCC advised all the SLDCs to calculate ATC/TTC for Dec-16/Jan-17 and submit it in next OCC meeting.

SLDC, Odisha submitted the ATC/TTC figures for January, 2017.

DVC and JUSNL submitted the ATC/TTC figures for December, 2016.

WBSETCL is uploading the ATC/TCC figures in their website.

OCC advised DVC, JUSNL and Odisha to upload ATC/TTC figures along with the constraint details in their website.

OCC advised Bihar to compute ATC/TTC figures and submit to ERPC and ERLDC at the earliest.

Members may update.

Deliberation in the meeting

BSPTCL informed that they will compute their ATC/TTC and furnished to ERPC/ERLDC.

Item No. B.26: Run-back scheme of Sasaram 500MW HVDC B-t-B converter -- ERLDC

It is understood that the following run-back schemes are functional for the 500 MW B-t-B HVDC converter at Sasaram:

1. Tripping of any circuit of 400kV Biharshariff-Sasaram D/C line – reduction of HVDC power order to 250 MW
2. Tripping of both circuits of 400kV Biharshariff-Sasaram D/C line – complete blocking of the HVDC converter.

In this connection it is stated that the above run-back conditions were relevant when 400kV Biharshariff-Sasaram D/C line was the only AC source on the East side bus. However, at present due to existence of 765kV Sasaram-Fatehpur 765kV line along with 765/400kV Sasaram ICT, there would be no loss of AC voltage of the 400kV East bus, even if both circuits of Biharshariff-Sasaram 400kV D/C line trip.

It is to mention that on 19-12-16, the HVDC Sasaram power order had to be reduced to 250MW when 400kV Biharshariff-Sasaram-I was taken under planned shutdown. Thereafter, at 12:43 Hrs, the other 400kV circuit Biharshariff-Sasaram-II tripped due to transmission of DT signal from Biharshariff to Sasaram leading to complete blocking of the converter. However, such blocking was unwarranted as the 765kV Sasaram-Fatehpur line together with the 765/400kV ICT at Sasaram was still in service.

It is therefore suggested that the existing run-back scheme may be activated only when Sasaram 765/400kV ICT or Sasaram-Fatehpur 765kV line is under outage and bypassed under normal conditions. The scheme may be further reviewed when at least two units of Nabinagar TPS commence firm generation.

ERLDC explained the scheme.

OCC decided to implement the revised scheme and advised Powergrid to modify the scheme in coordination with CTU.

Powergrid/ERLDC may update.

Deliberation in the meeting

Powergrid informed that for implementing the scheme there is a requirement of modification in CCU which will be done by the OEM (Alstom). The same will be implemented by March,2017.

Item No. B.27: Reasons for demand –supply gap and its variation -- Agenda by NPC

It was deliberated in the 4th NPC meeting that monthly power supply position prepared & published by CEA based on the data furnished by the states reflected shortages in almost all the states. However, a number of those states intimated adequate availability of power. This meant that the deficit / shortage in such states was actually not the deficit in true sense but demand - supply gap due to reasons other than shortage of power. The other reasons for the demand - supply gap could be inadequate availability of power, transmission constraint, distribution constraint, financial constraint etc. The reason for demand –supply gap needed to be clearly mentioned to reflect true picture of power supply position in different states and also to invite attention of various agencies including policy makers to the specific problem areas in the power sector for suitable solution.

It was agreed by all the RPCs to advise the states in their respective regions to intimate broad break-up of demand –supply gap due to various reasons, or at least, the main reason(s) for demand supply in each month.

Members may update.

Deliberation in the meeting

OCC advised all the constituents to comply.

Item No. B.28: Long outage of important transmission elements

a) Non availability of Line Reactor of 400KV Malda-Purnea-I

In 123rd OCC, Powergrid informed that order has been placed for Reactor-1 and it will be commissioned by September, 2016.

In 127th OCC, Powergrid informed that it will be commissioned by December, 2016.

In 128th OCC, Powergrid informed that the line reactor will be commissioned by January, 2017.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that the reactor will be dispatched by 25th January, 2017 and the same will be commissioned by February, 2017.

b) 400kV Meramundali-Mendhasal S/C

Tower collapsed near Mendhasal at 3 Locs, viz.Locs.180,181 & 182.

In 123rd OCC, OPTCL informed that tower 181 and 182 were restored. Restoration of tower 180 will take time due to water logging and the tower would be restored by September, 2016.

In 124th OCC, OPTCL informed that restoration of tower 180 will take time due to water logging and the tower would be restored by December, 2016.

In 127th OCC, OPTCL informed that the line will be restored by December, 2016.

In 128th OCC, OPTCL informed that the line will be restored by January, 2017.

OPTCL may update.

Deliberation in the meeting

OPTCL informed that the line is expected to be restored by January, 2017.

c) 400kV Patna-Kishengunj D/C

Tower collapsed at Loc.51.

Powergrid informed that due to water logging problem the work is getting delayed however work is expected to be completed by 15th October, 2016.

In 125th OCC, Powergrid informed that line will be restored by 15th October, 2016.

In 127th OCC, Powergrid informed that line will be restored by July, 2017.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that the work has been awarded.

d) 400kV Purnea-Biharshariff D/C(under outage wef 23/08/16)

Three Nos.Tower(mid river) collapsed.

In 126th OCC, ENICL informed that the final assessment is under progress. The same will be submitted to ERPC and ERLDC.

In 127th OCC, ENICL informed that line will be restored by June, 2017.

ENICL may update.

Deliberation in the meeting

ENICL informed that line will be restored by June, 2017.

e) Main bay of 315MVA ICT at Farakka(Tie element-400kV FSTPP-Malda-I)

The main bay is under s/d for upgradation wef 06/05/16.Powergrid may update stating status of the upgradation.

In 125th OCC, Powergrid informed that Bus-I end is ready and will be charged, Bus-II end is bypassed and will be ready for charge after getting shutdown.

In 126th OCC, Powergrid informed that Bus-I has been charged, but Bus-II could not be completed due to non-availability of line shutdown.

In 127th OCC, Powergrid informed that they have completed their part of work.

NTPC informed that the bay will be in service by December, 2016.

In 128th OCC, NTPC informed that the bay will be in service by 2nd week of January, 2017.

Powergrid/NTPC may update.

Deliberation in the meeting

NTPC informed that the tie transformer-III has been charged and the shutdown will be allowed by next week. Powergrid informed that the work will be completed by January, 2017.

f) 50MVAR Bus Reactor-I at Farakka (alongwith main and tie bays)

Under shutdown wef 31/05/16 for dismantling from old bay and re-installation in new bay in the dia of FSTPP GT#3.

In 125th OCC, Powergrid informed that reactor will be charged by end of October, 2016.

In 126th OCC, Powergrid informed that reactor will be charged by November, 2016.

In 127th OCC, Powergrid informed that they are waiting for shutdown. NTPC informed that the reactor will be charged by December, 2016.

In 128th OCC, Powergrid informed that the reactor will be charged by 2nd week of January, 2017.

Powergrid may update.

Deliberation in the meeting

NTPC informed that the shutdown will be allowed by next week.

g) Tie bay of 125MVAR Bus reactor and 400kV Indravati-Indravati and Indravati(PG):

Under outage wef 18/03/16 due to R-Ph pole bursting of Tie CB. Due to non-availability of the tie bay, the Buses are coupled only via the tie bay of 400kV Rengali-Indravati and 400kV Indravati-Jeypore at Indravati and any outage of the lines would result in decoupling of the Buses.

In 125th OCC, Powergrid informed that main CB has some problem which will be taken care by OHPC/OPTCL.

In 126th OCC, OPTCL informed that a CB is being shifted from Mendhasal for replacement of the subjected CB. The installation work will be completed by November, 2016.

In 128th OCC, OPTCL informed that the CB is yet to be transported to the site from Mendhasal.

Powergrid/OHPC may update.

Deliberation in the meeting

OPTCL informed that the CB has reached at the site. The installation work will be completed by February, 2017.

h) 220 kV Waria – Bidhannagar-II

The line is under outage wef 20.08.16 due to collapse of one no of tower collapse.

In 128th OCC, DVC informed that the line restoration will take another 1 months.

DVC may update.

Deliberation in the meeting

DVC informed that the line will be restored by July, 2017.

i) 315MVA ICT-I at Meramundali

The ICT is under outage wef 12/11/16 due to damage after B-ph LA blasting.

In 128th OCC, OPTCL informed that the ICT will be in service by February 2017.

OPTCL may update.

Deliberation in the meeting

OPTCL informed that the ICT reached the site and it will be in service by February 2017.

j) 220kV Meramundali-Bhanjanagar-I

The line is under outage w.e.f 25/11/16 for conductor replacement work. OPTCL may furnish the details of conductor replacement being done and the expected date of restoration.

In 128th OCC, OPTCL informed that the conductor replacement work will be completed by January 2017. OPTCL added that type of conductor is ACSR Zebra.

OPTCL may update.

Deliberation in the meeting

OPTCL informed that the conductor replacement work will be completed by February 2017.

Item No. B.29: 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.

In 126th OCC, ERLDC presented the updated telemetry status and informed that every month they were posting the updated status at ERLDC website.

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

In 128th OCC, all the respective constituents were advised to ensure the availability of telemetry data to ERLDC. The updated status is enclosed at Annexure- B.29.

Members may update.

Deliberation in the meeting

*OCC advised all the respective constituents to ensure the availability of telemetry data to ERLDC. The updated status is enclosed at **Annexure- B.29**.*

GM, ERLDC informed that some IPPs are not providing the telemetry data to ERLDC on continuous basis.

OCC endorsed the proposal of ERLDC to discontinue the scheduling for IPPs who were not ensuring the telemetry data to ERLDC on continuous basis as per the IEGC provisions.

Item No. B.30: Interruption of real time data due to all control centres in ER

There was a total failure of real time SCADA data to all control centres from 05:53 Hrs of 08-August-16. As an interim arrangement, real time SCADA data was restored on 10-August-16 at 03:19Hrs. The root cause was yet to be arrived and fixed.

In 124th OCC, Powergrid informed that there was some problem in Patna SLDC due to which one ICCP link failed which caused the interruption of data.

OCC advised Powergrid to provide redundancy for communication equipment system / route diversity of communication link / redundancy at both the control centres. Powergrid was also advised to submit a report on the incident and action taken.

In 125th OCC, Powergrid submitted the report and OCC advised all the constituents to go through the report and give their feedback, if any.

In 126th OCC, it was raised that in case of failure of ICCP link/other communication equipment, the data availability needs to be assured at Back-up control centres.

OCC advised Powergrid to submit in 34th TCC their detail plan for data redundancy in case of failure of any one communication system at either of the control centres (Main & Back-up).

34th TCC felt that in case of failure of ICCP link/other communication equipment, the data availability needs to be assured at Main as well as Back-up control centres.

Powergrid informed that the alternate communication path was not available for SLDCs and ERLDC. Powergrid added that backup equipment is available and alternate communication path can be planned.

TCC advised to convene a special SCADA meeting to discuss the issue and report back.

Members may note.

Deliberation in the meeting

Members noted.

Item No. B.31: 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.

In 124th OCC, it was informed that out of 247 PMUs 46 have been installed.

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

*In 126th OCC, Powergrid submitted the latest status which is given at **Annexure- B.31**.*

OCC advised POWERGRID to share the future installation and substation visit schedule with the members.

POWERGRID may update the status.

Deliberation in the meeting

Members noted.

Item No. B.32: 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.32**.

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

Members may update.

Deliberation in the meeting

Members noted.

Item No. B.33: Status of Emergency Restoration System (ERS Towers) for Eastern Region constituents

The latest status of Emergency Restoration System (ERS towers) as well as the future plan of procurement was given at **Annexure- B.33**.

Members may update the latest status.

Deliberation in the meeting

Members noted.

Item No. B.34: Non-commissioning of PLCC / OPGW and non-implementation of carrier aided tripping in 220kV and above lines.

According to CEA technical standard for construction of electric plants and electric lines -Clause 43(4) (c), transmission line of 220 KV and above should have single-phase auto-reclosing facility for improving the availability of the lines. However, from the tripping details attached June-August, 2016 it is evident that the some of 220kV above Inter & Intra-Regional lines do not having auto-reclose facility either at one end or at both ends. Out of these for some of the lines even PLCC/OPGW is not yet installed and carrier aided protection including Autorecloser facility is not yet implemented. Based on the trippings of June- August, 2016 and PMU analysis a list of such lines has been prepared and as given below:

List of line where auto reclose facility is not available(Information based on PMU data analysis)							
S. No	Transmission Lines name	Date of Tripping	Reason of Tripping	Owner Detail		Present Status	
				End-1	End-2	OPGW/ PLCC Link available	AR facility functional
1	400 KV ANGUL -TALCHER	02.06.16	B-N FAULT	PGCIL	NTPC		
2	400 KV BIHARSARIFF-VARNASI-I	07.06.16	B-N FAULT	PGCIL	PGCIL		
3	400KV BIHARSARIFF-BANKA-II	12.06.16	Y - N FAULT	PGCIL	PGCIL		
4	220KV SASARAM-SAHUPURI	12.06.16	B - N FAULT	PGCIL	UPTCL		
5	400 KV TALA -BINAGURI -IV	13.06.16	B - N FAULT	Durk Green	PGCIL		Binaguri end AR is healthy. Tala end AR is disabled.
6	400 KV KODERMA-BOKARO-I	14.06.16	B-N FAULT	DVC	DVC		
7	400 KV FARAKKA-KAHALGAON-IV	15.06.16	R-N FAULT	NTPC	NTPC	Yes	Yes and operated last on dated 28.09.2016.
8	400 KV MUZAFFARPUR-BIHARSARIFF-II	17.06.16	Y-N FAULT	PGCIL	PGCIL		
9	400 KV MERAMUNDALI-NEWDUBRI - I	20.06.16	B-N FAULT	OPTCL	OPTCL	PLCC available	Yes
10	400KV PATNA-BALIA-II	21.06.16	B-N FAULT	PGCIL	PGCIL		

11	400KV PATNA-KISHANGANJ-II	21.06.16	Y-N FAULT	PGCIL	PGCIL		
12	400KV PATNA-BALIA-I	21.06.16	R-N FAULT	PGCIL	PGCIL		
13	<u>220KV BUDIPADAR-KORBA-II</u>	23.06.16	Y-N FAULT	OPTCL	CSEB	PLCC available	will be activated in consultation with Korba
14	400 KV ARAMBAGH BIDHANNAGAR	02.07.16	Y-N FAULT	WBSETCL	WBSETCL		
15	400 KV FARAKKA-DURGAPUR-I	06.07.16	Y-N FAULT	NTPC	PGCIL	Yes	Yes and operated last on 19.07.2016 & 06.11.2016
16	400 KV NEW RANCHI CHANDWA - I	13.07.16	B-N FAULT	PGCIL	PGCIL		
17	<u>220 KV TSTPP-RENGALI</u>	17.07.16	EARTH FAULT	NTPC	OPTCL		
18	<u>220KV BUDIPADAR-RAIGARH</u>	21.07.16	EARTH FAULT	OPTCL	PGCIL	PLCC defective	
19	400 KV KOLAGHAT-KHARAGPUR	03.08.16	Y-N FAULT	WBPDC	WBSETCL		
20	<u>220 KV FARAKKA-LALMATIA</u>	03.08.16	B-N FAULT	NTPC	JUNSL	Yes	Old Relay and not functional. 7-8 months required for auto re-close relay procurement
21	400 KV PURNEA-MUZAFARPUR-I	03.08.16	R-N FAULT	PGCIL	PGCIL		
22	400 KV GAYA - CHANDWA -II	04.08.16	B-N FAULT	PGCIL	PGCIL		
23	<u>220 KV MUZAFFARPUR-HAZIPUR - II</u>	10.08.16	B-N FAULT	PGCIL	BSPTCL		
24	<u>220 KV ROURKELA-TARKERA-II</u>	11.08.16	B-N FAULT	PGCIL	OPTCL	OPGW available	Expected to install protection coupler by Jan 17
25	<u>220 KV CHANDIL-SANTALDIH</u>	25.08.16	R-N FAULT	JUNSL	WBPDC		
26	400 KV MPL-RANCHI-II	02.09.16	R-N FAULT	MPL	PGCIL		
27	<u>220 KV BIHARSARIF-TENUGHAT</u>	07.09.16	B-N FAULT	BSPTCL	TVNL		
28	400KV MERAMANDALI-STERLITE-II	10.09.16	Y-N FAULT	OPTCL	SEL	OPGW not commissioned	
29	<u>220 KV RAMCHANDRAPUR-CHANDIL</u>	22.09.16	B-N FAULT	JUNSL	JUNSL		
30	400KV SEL - MERAMUNDALI-I	22.09.16	B-N FAULT	SEL	OPTCL	OPGW not commissioned	
31	400 KV KOLAGHAT-CHAIBASA	28.09.16	B-N FAULT	WBPDC	PGCIL		

34th TCC advised all the respective members to update the above list along with the last tripping status in next PCC meeting.

TCC further advised all the constituents to give the latest status of PLCC of other 220kV and above lines under respective control area.

TCC advised to review the status of above in lower forums report back in next TCC.

In 128th OCC, Powergrid and OPTCL updated the status as mentioned in above table.

OCC advised all the respective members to update the above list along with the last tripping status.

Respective members may update the status.

Deliberation in the meeting

OCC advised all constituents to update the above list.

Item No. B.35: Non-commissioning / non-functional status of bus-bar protection at important 220 kV Sub-stations

It has been observed that at many 220 kV substations particularly that of STU, bus-bar protection is either not commissioned or non-functional. The non-availability / non-functionality of bus bar protection, results in delayed, multiple and uncoordinated tripping, in the event of a bus fault. This in turn not only results in partial local black out but also jeopardises the security of interconnected national grid as a whole. The matter was also pointed out during the third party protection audit which is being carried out regularly. Constituents are required to meet the audit compliance and commission or made bus –bar protection functional where ever it is not available. A list of such important 220 kV sub-stations as per the first third party audit is placed in the meeting.

In 34th TCC, members updated the status as follows:

Bus Bar Protection not available (reccord as per third party protection audit)

Bihar				
Sl No	Name of Substation	Bus Bar protection status	Date audit	Present Status
1	220 kV Bodhgaya	Not available	28-Dec-12	Single bus and there is no space available for busbar protection
Jharkhand				
1	220 kV Chandil	Not available	29-Jan-13	LBB available
2	220 kV Ramchandrapur	Not available	29-Jan-13	Functional from October 2013
3	220 kV Tenughat	Not available	12-Apr-13	
DVC				
1	220 kV Jamsedpur	Not available	10-Apr-13	Single bus. Bus bar will be commissioned under PSDF.
Odisha				
1	220 kV Mermandali	Not functional	30-Dec-12	Commissioned in Mar 2015
West Bengal				
1	220 kV Arambah	Not available	24-Jan-13	Work is in progress

2	220 kV Jeerat	Not available	20-Dec-12	Work is in progress
3	220 kV Kolaghat	Not available	19-Dec-12	Commissioned in May 2014
4	220 kV Howrah	Not available	26-Mar-13	
Powergrid				
1	220 kV Silliguri	Not available	30-Mar-13	Commissioned in Mar 2016
2	220 kV Bolangir	Not available	31-Mar-13	Commissioned in April 2013

TCC further advised all the constituents to give the latest status of Bus Bar protection of other 220KV S/S under respective control area.

TCC advised to review the status of above in lower forums report back in next TCC.

128th OCC advised all the respective members to update the latest status.

Members may update.

Deliberation in the meeting

OCC advised all the respective members to update the latest status.

Item No. B.36: Pollution mapping for Eastern Region

The Pollution Mapping work in ER was started with on-site measurement of ESDD and NSDD.

OCC advised all the respective constituents to coordinate with Powergrid for online filling of measurement data.

The updated status as updated by constituents & as intimated by Powergrid vide mail dated 19.10.16 is as given below:

	Scope (no. of location s)	Installed Locations	Number of locations where the results for 1st set of Measurements submitted	No. of locations where the results for 2nd set of Measurements submitted	Number of locations where the results for 3rd set of Measurements submitted	Number of locations where the results for 4 th set of Measurements submitted
JUSNL	67	27	21	19	13	3
BSPTCL	59	52	52	40	4	0
WBSETCL	73	68	43	3	2	0
OPTCL	164	102	102	90	79	0
SIKKIM POWER	12	9	6	6	0	0
POWERGRID ER1	99	99	99	47	0	0
POWERGRID ER2	40	40	40	40	17	0
POWERGRID ODISHA	42	42	42	42	40	0

It is requested to submit the fourth and balance third set measurement result at the earliest.

Further, the schedule for measurement as informed vide letter dated 20.01.2016 & mail dated 21.01.2016 are as follows:

Measurement Schedule		
<i>4th set</i>	<i>5th set</i>	<i>6th set</i>
<i>21st -30th Sep 2016</i>	<i>21st -31st Jan 2017</i>	<i>21st -31st May 2017</i>

OCC advised all the constituents to complete the measurements as per the schedule.

Powergrid updated the latest status as follows:

	Scope (no. of location s)	Installed Locations	Number of locations where the results for 1st set of Measurements submitted	No. of locations where the results for 2nd set of Measurements submitted	Number of locations where the results for 3rd set of Measurements submitted	Number of locations where the results for 4 th set of Measurements submitted
JUSNL	67	27	17	17	13	11
BSPTCL	59	52	40	29	4	3
WBSETCL	73	68	43	4	3	1
OPTCL	164	102	100	90	79	1
SIKKIM POWER	12	9	6	6	0	0
POWERGRID ER1	99	99	99	47	0	0
POWERGRID ER2	40	40	40	40	17	0
POWERGRID ODISHA	42	42	42	42	40	0

Powergrid informed that most of scheduled measurements till fourth set has not been completed yet, it is requested to complete the measurements and submit the results at the earliest.

Powergrid added that they prepared an online format to submit the details of measurements. Powergrid requested to fill the Google form(<https://goo.gl/6375HJ>) for onward submission of measurements for better analysis of results.

OCC advised all the constituents to complete the measurements as per the schedule.

Members may update.

Deliberation in the meeting

Members noted.

Item No. B.37: Mock Black start exercises in Eastern Region – ERLDC

i) The status of black start exercises

The schedule of the proposed black-start exercises for F.Y 2016-17 is as follows:

Sl no	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	U.Kolab	Last week of May, 2016	Completed on 16 th July 2016	Last Week of January 2017	

2	Maithon (To be tested in islanded mode)	1 st week of June 2016	Completed on 02.12.2016	1 st Week of February 2017	
3	Rengali	2 nd week of June 2016	Completed on 23 rd Sept, 2016	Last week of November 2016	January 2017
4	U. Indarvati	3 rd week of June 2016	Completed on 16 th July 2016	2 nd week of February 2017	
5	Subarnarekha	1 st week of October 2016	Completed on 19.10.16	1 st week of January 2017	
6	Balimela	3 rd week of October 2016	Completed on 29.11.16	1 st week of March 2017	
7	Teesta-V	2 nd week of Nov 2016		Last week of February 2017	February 2017
8	Chuzachen	Last Week of May 2016	17th Jan, 2017 (Scheduled)	January 2017	
9	Burla	Last Week of June 2016	Completed on 28.07. 2016	Last week of February 2017	
10	TLDP-III	1 st Week of June 2016		2 nd Week of January 2017	
11	TLDP-IV	Last Week of June 2016	Completed on 17.11.16	1 st Week of February 2017	

127th OCC advised OHPC and WB SLDC to submit a report on blackstart exercise of Balimela and TLDP-IV respectively.

Members may update.

Deliberation in the meeting

Chuzachen informed that blackstart exercise is scheduled to be done today at 2:00 PM.

ii) 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.

Item No. B.38: Restricted Governor /Free Governor Mode Operation of generators in ER

The latest status of units of ER under RGMO is available at ERPC website (<http://www.erpc.gov.in/>) under Operation>Important data.

In 108th OCC, ERLDC informed that the RGMO/FGMO response of the generators needs monitoring on continuous basis.

OCC advised ERLDC to intimate the event of sudden drop in frequency to the generators and requested all generators to provide the RGMO/FGMO response data to ERLDC during the said incidents.

In 115th OCC, ERLDC informed that for effective monitoring of unit wise governor response, ERLDC proposes to create a web-group wherein SCADA data recorded by ERLDC following an event of sudden load-generation imbalance would be posted within 2-3 days of occurrence of the event. The login id and password to access the web-group would be duly intimated by ERLDC to all concerned.

Coordinators from all the concerned generating stations would post the unit wise MW response as recorded at their respective ends, for a period +/- half-an-hour of the instant, within two days of posting by ERLDC. For the purpose of analysis, wherever significant variation would be observed w.r.t. to SCADA data, generator's data would be adopted for detailed analysis.

In this connection, SLDCs of E. Region are requested to extend cooperation by coordinating with nodal officers of generators under their respective jurisdiction, in data collection and posting in webgroup.

OCC requested all the constituents to provide their respective e-mails which can be added to the web group.

E-mails can be provided by all SLDCs, Hydro generators of having capacity 10 MW & above and Thermal generators of having capacity 200 MW & above.

SLDCs will co-ordinate with their IPPs of 10 MW & above Hydro generation and 200 MW & above Thermal generation.

Thereafter, ERLDC informed that one web group was formed for sharing governor response of various generators in ER. The url of the group is

https://in.groups.yahoo.com/neo/groups/er_gov_respons/info

ERLDC requested to send email ids where invitation will be sent. Yahoo mail ids are preferable.

In 118th OCC, it was informed that WBSETCL, JUSNL, Bihar, NTPC and NHPC are yet to join the group.

In 126th OCC requested all the generators to look into the matter and share their governor response with ERLDC in the group (https://in.groups.yahoo.com/neo/groups/er_gov_respons/info). Members may also send their request for joining the group to erldcprotection@gmail.com.

ERLDC had uploaded the unit wise responses in the group "er_gov_respons@yahoo.co.in." i.r.o the following events for monitoring of RGMO response of generator:

- a) On 23.12.16 at 01:27 Hrs, Kashmir Valley system collapsed due to tripping of all 400 kV lines from Kishenpur substation except 400 kV Moga-Kishenpur-II; Generation loss of 250 MW, load loss of 1200 MW occurred.

ERLDC may update.

Deliberation in the meeting

ERLDC presented the RGMO response of ER generators for the above instance. OCC advised constituents to furnish the RGMO response of their units to ERLDC, if there is any mismatch.

Further, GM ERLDC informed that for renewable generation integration there will be strict monitoring for the FGMO/RGMO response of each unit. So all the generators are requested to gear up to ensure RGMO operation for their units.

Item No. B.39: Reactive Power performance of Generators

In 125th OCC, ERLDC informed that the performance of Teesta-III, DSTPS, Mejia-B and APNRL need improvement.

Generating stations have been monitored for certain sample dates in the month of December,16.

Power Plant	Max and Min Voltage observed for Dec 16 (KV)	Date for monitoring (Dec 16)
Farakka STPS	421,407	3,12
Khalgaon STPS	417,406	3,12
Talcher STPS	410,400	12,15
Teesta	422,394	4,18
Bakreshwar TPS	416,402	5,16
Kolaghat TPS	420,399	11,23
Sagardighi TPS	--	--
MPL	421,410	10,19
Mejia-B	--	--
DSTPS	423,411	4,12
Adhunik TPS	424,407	6,17
Sterlite	424,410	3,12
Barh	--	--
JITPL	--	--
GMR	416,404	19,23
HEL	--	
Kodarma	422,406	23,16

ERLDC may present the reactive performance.

Deliberation in the meeting

ERLDC presented the response of the generators and members noted.

a) Schedule for reactive capability tests

The following was status of regarding reactive capability testing:

- Adhunik TPS(both units) –Yet to be confirmed by Adhunik
- DSTPS (Unit#2 only pending) – done
- Koderma TPS Unit#1 -- done on 08.08.2016
- JITPL(both units) – Procedure given. Not yet done
- Barh TPS – In June 2016
- Raghunatpur (both units)*
- GMR (Three units)*
- Haldia TPS (Unit #4)*

Members may update.

Deliberation in the meeting

Members noted.

Item No. B.40: Continuous tripping in 400kV Binaguri-Bongaigaon and 220kV CHPC-Birpara sections.

Repeated tripping of 400kV Binaguri-Bongaigaon sections and 220kV CHPC-Birpara-I & II have been observed in the recent past.

In 48th PCC, Powergrid explained that it is a lightening prone area and repeated faults are being occurred due to insulators failure.

Powergrid informed that they will replace the porcelain insulators with polymer insulators up to Bhutan boarder.

In 34th TCC, Bhutan representative informed that new insulators for Bhutan portion of 220kV CHPC-Birpara line have been purchased and replacement work will be completed within 4 to 5 months.

Powergrid also informed that the insulator replacement for 220kV CHPC-Birpara line will be completed by December 2016.

Powergrid also informed that insulator replacement for critical sections of 400kV Binaguri-Bongaigaon line-I & II will be done by February 2017 and complete replacement will be done by April, 2017.

ERLDC informed that ENCIL has to take appropriate action to minimise the trippings of 400kV Binaguri-Bongaigaon line-III & IV and ENCIL has been informed about the issue.

TCC advised to appraise the issue to ENCIL for taking necessary action to minimise the trippings.

127th OCC advised ENICL to take necessary action at the earliest and submit the their action plan for reducing the tripping in future.

ENICL agreed to submit their action plan at the earliest.

128th OCC advised ENICL to take necessary action at the earliest and submit the their action plan for reducing the tripping in future.

*ENICL vide mail dated 13.12.16 submit their action plan to reduce the trippings which is enclosed at **Annexure-B.40**.*

Members may discuss.

Deliberation in the meeting

Members noted.

PART C:: OPERATIONAL PLANNING

Item no. C.1: Shutdown proposal of transmission lines and generating units for the month of February'17

Members may finalize the Shutdown proposals of the generating stations for the month of February'17 as placed at **Annexure-C.1**.

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

Deliberation in the meeting

*Approved maintenance programme of generators and transmission elements for the month of February, 2017 is given at **Annexure-C.1**.*

C.1A: Shutdown of 220 kV Birpara-Siliguri for modification work of line crossing.

Indian Railway vide letter dated 29.12.16 has placed a request for Shutdown proposals of 220 kV Birpara-Siliguri line for four (4) days during the first week of February, 2017 for the work of modification of one tower (location no. 178). The details of the shutdown is placed at **Annexure-C.1A**.

Members may discuss and approve.

Deliberation in the meeting

ERLDC informed that this shutdown may be allowed after the commissioning of Alipurduar ICT.

Powergrid informed that the ICT is expected to be commissioned by 26.01.2017.

OCC principally agreed to allow the above shutdown for four days in first week of February, 2017.

Powergrid has also requested for shutdown of following lines to attend the hotspot:

- i. 400 kV Malda- Purnea D/C- On daily basis for one day each ckt
- ii. 400 kV Malda- Farakka D/C- On daily basis for two days each ckt

Members may discuss and approve.

Deliberation in the meeting

OCC agreed to allow the above shutdown.

Item no. C.2: Anticipated power supply position during February'17

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of February'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.2**.

Members may confirm.

Deliberation in the meeting

*Modified anticipated power supply position for the month of December, 2016 after incorporating constituents' observations is given at **Annexure-C.2**.*

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

(i) Generating units:

Generating Station	UNIT NO	CAP(MW)	REASONS FOR OUTAGE	OUTAGE DATE
HALDIA	1	300	OVER HAULING	25-Dec-16
KAHALGAON	7	500	COAL SHORTAGE	03-Jan-17
RAGHUNATHPUR	1	600	PLANNED MAINTENENCE	7-Dec-16
BAKRESWAR	4	210	MAINT. WORK	27-Nov-16
JITPL	2	600	DUE TO LOW SCHEDULE	30-Nov-16
GMR	2	350	COAL SHORTAGE	09-Jan-17
MEJIA	1	210	BOILER TUBE LEAKAGE	03-Jan-17
MEJIA	2	210	BOILER TUBE LEAKAGE	30-Dec-16
BOKARO B	3	210	DESYNCHRONIZED DUE	10-Aug-16
BOKARO B	1	210	BOILER TUBE LEAKAGE	8-Nov-16
RAGHUNATHPUR	2	600	BOILER TUBE LEAKAGE	6-Nov-16
KODERMA	2	500	DESYNCHRONIZED DUE	31-Dec-16
BUDGE-BUDGE	1	250	HIGH TURBINE VIBRATION	27-Sep-16
KOLAGHAT	1	210	DESYNCHRONIZED DUE	7-Nov-16
KOLAGHAT	4	210	DESYNCHRONIZED DUE	27-Nov-16
BAKRESWAR	3	210	OVER HAULING	1-Nov-16
TENUGHAT	2	210	MAINT. WORK	7-Nov-16

(ii) Transmission elements

Name of the Line/Element	Outage	Reason
400 KV MEERAMANDALI- MENDHASAL S/C	23/05/16	TOWER COLLAPSED NEAR MENDHASAL, LOC NO 180,181,182.
400 KV PATNA-KISHANGANJ D/C	26/07/16	TOWER COLLAPSED AT LOC NO 51
400 KV BIHARSARIFF-PURNEA- I & II	23/08/16	Three numbers of tower badly damaged at location
220KV WARIA - BIDHANNAGAR-II	10/09/16	LINE UNDER B/D, TOWER COLLAPSED AT LOC NO 28
220 KV MERAMUNDALI – BHANJNAGAR-I	25/11/16	CONDUCTOR REPLACEMENT WORK
315 MVA ICT-I AT MEERAMUNDALI	12/11/16	UNDER B/D AS ICT GOT BURNT DUE TO B

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 December'16

System frequency touched a maximum of 50.31Hz at 06:04Hrs of 27/12/16 and a minimum of 49.67 Hz at 09:24Hrs of 12/12/16. Accordingly, 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 December'16.

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.3: Grid incidences during the month of December, 2016

Sl no	Disturbance Place	Date	Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	Budge Budge (CESC)	16-12-2016	09:18	230 MW	250 MW	At 09:18 hrs, GT – II, ST – I & II, ICT – I & II along with three 132 kV Chakmir circuits tripped due to bus zone protection operation at 132 kV Main bus – I at BBGS.	GD-I

2	Theruvai (OPTCL)	15-12-2016	07:22	Nil	126 MW	All 220 kV feeders emanating from Theruvai s/s tripped due to heavy flash over while opening isolator of 220 kV Theruvai - Jaynagar - U. Kolab - III with breaker closed condition.	GD-I
3	Arambag (WBSETCL)	17-12-2016	12:11	Nil	220 MW	All 400 kV feeders emanating from Arambag along with 220 kV bus II & 220 kV transfer bus at Arambag tripped from remote end due to bursting of R phase CT of transfer bus resulting load loss of 220 MW at Birsingh and Raina which were radially fed from Arambag.	GD-I

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.4: Additional Agenda

D.4.1 : Stepwise completion of Rajarhat – Purnea 400 KV D/C line as approved in 34th TCC meeting:

SL NO	DESCRIPTION OF REARRANGED ELEMENT
01.	Rajarhat - Farakka portion of Rajarhat - Purnea 400 KV D/C transmission line including LILO of one ckt of Rajarhat - Purnea Line at Farakka.
02.	LILO of one Circuit of 400 KV D/c Rajarhat- Purnea Line at Gokarna Substation.
03.	Farakka – Purnea portion of Rajarhat - Purnea 400 KV D/C transmission line.

The above mentioned arrangement already agreed in TCC & it is expected that all elements will be charged in this quarter (Q4/Jan'17-March'17).

Powergrid may update.

Deliberation in the meeting

Powergrid informed that the construction work of 400 KV GIS Sub-station and tower package of 400 KV D/C Rajarhat –Purnea Transmission line at Rajarhat end has completely brought to a standstill condition since last one month due to agitation of local villagers.

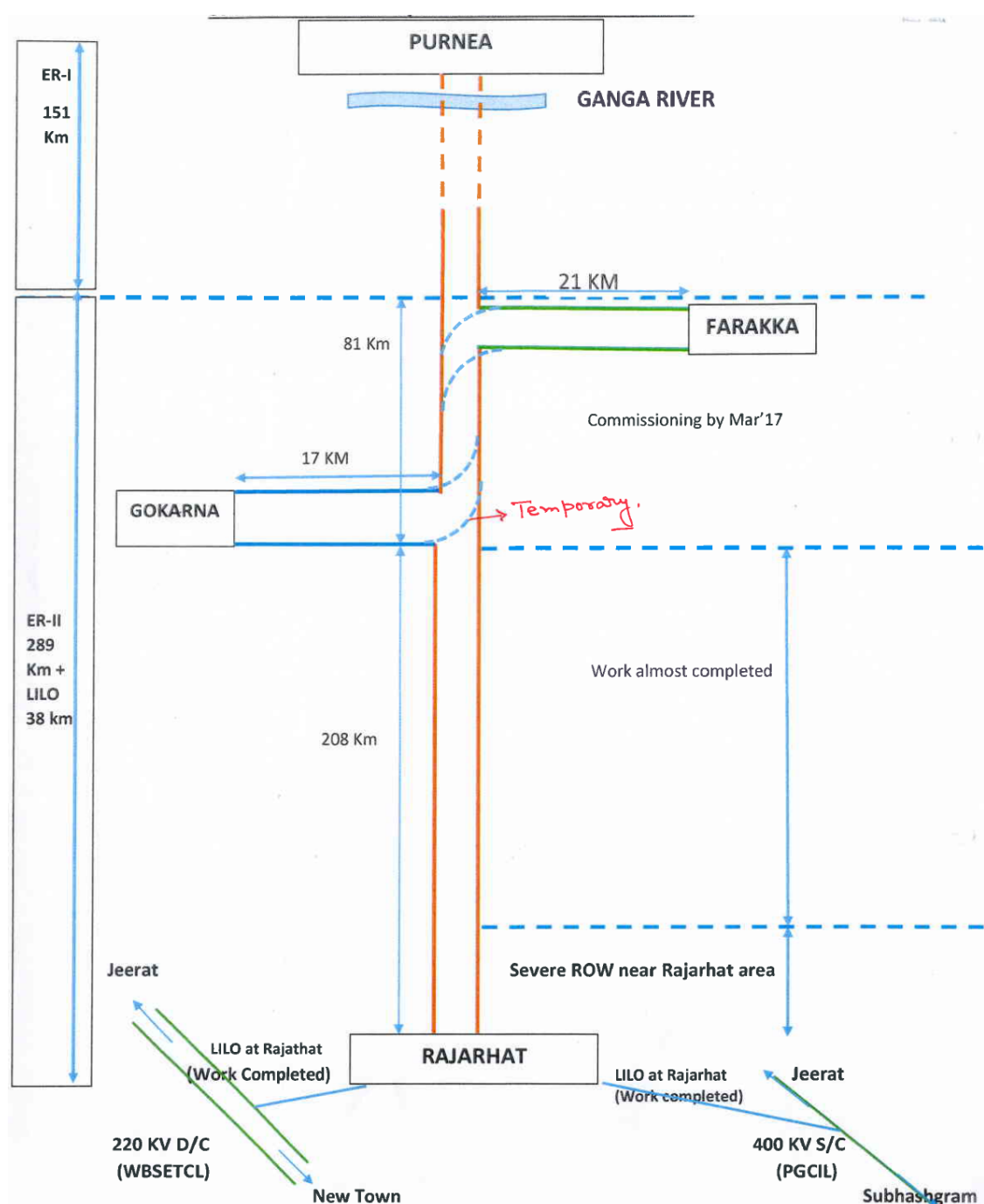
However, Farakka-Gokarna portion of the said line along with associated bays at Farakka may be completed within the FY 2016-17. Further, Sub-station work including ICT at Gokarna (under jurisdiction of WBSETCL) is ready for charging and 400 KV line bays including 80 MVAR B/R (under scope of POWERGRID) is also ready for commissioning. Accordingly, 400 KV D/C Farakka-Gokarna portion of Rajarhat-Purnea 400 KV D/C transmission line including LILO of one circuit at Farakka and other circuit at Gokarna can be commissioned within March, 2017. This is also to be noted that commissioning of Farakka-Gokarna portion of the Rajarhat-Purnea transmission line can connect Gokarna S/s at 400 KV level which will improve the power situation in and around Berhampur area.

Keeping in view of the above facts and priorities the project element “Rajarhat-Purnea 400 KV D/C transmission line (with triple snow bird conductor) with LILO of one circuit at Gokarna (WBSETCL) and other circuit at Farakka (NTPC)” associated with ERSS-V is proposed to be rearranged and commissioned stepwise as detailed below:

SL NO	DESCRIPTION OF REARRANGED ELEMENT
1.	400 KV Farakka-Gokarna portion of Rajarhat-Purnea 400 KV D/C Transmission line including LILO of one circuit at Farakka & other circuit at Gokarna.
2.	Rajarhat-Gokarna portion of the 400 KV D/C Rajarhat-Purnea Line.
3.	Farakka – Purnea portion of Rajarhat - Purnea 400 KV D/C transmission line.

After commissioning of element at Sl. No. 1 the effective transmission line shall be 400 KV D/C Gokarna-Farakka TL with 1 No. 80 MVAR B/R at Gokarna end and 1 No. 80 MVAR line reactor at Farakka end.

OCC agreed and recommended for TCC approval.



Rajarhat Purnea re-arrangement diagram

D.4.2 : Shut down of 400 KV Binaguri-Bongaigaon-D/C for railway diversion work (Both circuit in continuous basis):

For widening of railway track under North Frontier railway, tower diversion required to be carried out between location no: 466 & 467. For carrying out the work 08 days continuous S/D of both the circuits are required. As huge manpower mobilization required including railway block shut down firm shut down period is required for proper co-ordination.

Powergrid may explain.

Deliberation in the meeting

Approved under the Transmission shutdown of Item No. C.1.

D.4.3 : Successful commissioning of additional 50 MVAR Bus Reactor at Berhampur S/S:

As per the decision taken in 31st TCC, ER-II has successfully commissioned additional temporary 50 MVAR Bus Reactor. Voltage drop observed around 3 KV after charging of Reactor. For commissioning of the reactor approximately 0.80 Crore cost is incurred. As permanent reactor of capacity 125 MVAR is going to be commissioned in Berhampur S/S under ERSS-XV package, it is proposed to consider the cost incurred above to include in the ongoing package.

Powergrid may explain.

Deliberation in the meeting

Members noted.

D.4.4 : Insulator replacement programme for the month of February'2017 of ER-II:

As per earlier discussion POWERGRID/ER-II is submitting the plan for insulator replacement for the month of January-February'2017:

Upcoming Plan for Insulator Replacement work proposed in the month of January-February-17

SI No.	Name of TL	Description of Work	Loc No. from	Loc No. To	Remarks
1	220kV S/C Birpara-Malbase TL.	Replacement of porcelain insulators with CLR insulators.	10	122 (Birpara end)	Complete replacement of insulators.
2	400kV D/C Binaguri-Bongaigaon TL Ckt-I & II.	Replacement of porcelain insulators with CLR insulators.	1 (Bongaigaon end)	484	Railway crossing. Ckt-I & II alternately
3	400 KV Maithon-Mejia-II.	Replacement of porcelain insulators with CLR insulators.	12	12	Railway crossing.
4	400 KV Binaguri-Rangpo-D/C.	Replacement of porcelain insulators with CLR insulators.	318	320	Railway crossing. One circuit at a time.
5	400 KV Binaguri-Purnea-D/C.	Replacement of porcelain insulators with CLR insulators.	600	702	National Highway/ State highway/ River crossing.
6	132 KV Siliguri-Kurseung.	Replacement of porcelain insulators with CLR insulators.	202	340	National Highway/ State highway/River crossing.
7	132 KV Siliguri-Melli.	Replacement of porcelain insulators with CLR insulators.	202	340	National Highway/ State highway/River crossing.

8	220 KV Binaguri-Birpara-D/C.	Replacement of porcelain insulators with CLR insulators.	138	233	National Highway/ State highway/River crossing.
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For all above places conventional porcelain insulator will be replaced by Composite Long Rod Insulator. Placed before members for discussion and subsequent consideration of the outages as deemed availability.

Members may approve.

Deliberation in the meeting

Powergrid- Odigha also placed their programme for insulator replacement which is enclosed at Annexure-D.4.4.

Members approved.

D.4.5 : Test charging of 80 MVAR, 400 KV Bus Reactor along with associated line bays of Powergrid at Gokarna S/S :

The erection & commissioning work of 02 No's line bays along with 80 MVAR Bus Reactor at Gokarna S/S has been completed. As the line coming to Gokarna S/S is expected to take some more time it is requested to allow ER-II for test charging of 80 MVAR Bus Reactor & line bays with rated voltage for completing the contractual formalities. Again, the Reactor also could be useful in lean period for maintain system voltage.

Powergrid may update.

Deliberation in the meeting

Members noted.

D.4.6 : Shut down of DVC lines for power line crossing of 220 kV D/C Govindpur-Dumka line-- JUSNL

JUSNL vide letter dated 13.01.17 had requested for shutdown of following DVC line for Power line crossing of 220 kV D/C Govindpur-Dumka line.

SI No.	DVC line	Location where work is to be carried out	Proposed date of shutdown	Duration
1	220 kV D/C CTPS-Dhanbad line	Loc. 145-146	30.01.2017	08:00am-5:00 pm
		Loc. 77-78		
2	220 kV D/C Dhanbad-Giridih line	Loc. 03-04	02.02.2017	08:00am-5:00 pm
3	220 kV D/C Dhanbad-Pithaikari line	Loc. 165-166	05.02.2017	08:00am-5:00 pm
		Loc. 150-151		

Deliberation in the meeting

OCC advised JUSNL and DVC to co-ordinate and avail the shutdown.

Meeting ended with vote of thanks to chair.

Annexure- A

Participants in 129th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 17.01.2017 (Tuesday)

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Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
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40	P. Banerji	WBSECL	9432140115	prabban72@gmail.com	P. Banerji

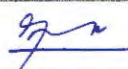

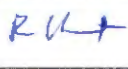

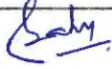


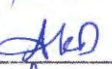


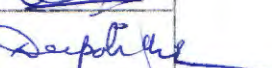






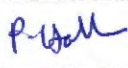


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Time: 11:00 hrs

Date: 17.01.2017 (Tuesday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
41	RAFIKUL ISLAM	CE, SLDC WBSETCL	9434910030	ce.wbsetcl@gmail.com	
42	P.K. Banerjee	Asst. G.M. (Engg) KTPS, WBSETCL	8336903891	pk.banerjee@wbsetcl.co.in	
43	R. CHAKRABARTY	DGM CESC	9831054619	rabul.chakraborty @vp-sg-in	
44	PRASHANT KUMAR DAS	DGM, SLDC, ODISHA	9438907408	prashantk.das@yahoo.co.in	
45	P. S. Sahu	Sr.G.M.(PS), SLDC ODISHA	9438907778	ele.pssahu@optel.co.in	
46	U.N. Mishra	CEM P GRIDCO	9438907774	sgm.p@gridco.co.in	
47	H.P. Mahapatra	Mgr, OHPE	9861164943	hpm.ohpe@gmail.com	
48	A.K. Banerjee	AGM, OPTCL	9438907352	akb_baner@yahoo.co.in	
49	R.C. Mahapatra	Advisor, IBEUL	9437044660	rcmahapatra1@gmail.com	
50	V. Kalyanaswamy	SE, ERPC	8902493969	vkswamy@rediffmail.com	
51	Deepak Kumar	AEE/SLDC/BSPCL	9472218038	dkumar27107@gmail.com	
52	Lenin	ERPC/AEE	9336905975	lenin.mtz@gmail.com	
53	P. P. Jena	AEE/ERPC	9776198991	pranayajyotsna@gmail.com	
54	SAURABH KUMAR	Dy. Mgr/BRECL NTPC	8005493034	saurabhkumar@ntpc.co.in	
55	U.K. Pal	Sr. Manager (CIP) DPL	9434735982	ukpal.dpl@gmail.com	
56	R. Biswas	SM/ALDC/DOL	9434735985	ssldc.dps@gmail.com	
57	M. G. Sahu	SM(OS)/WBPDCL	8336903700	mg.sahu@wbpdcl.co.in	
58	P. HALDER	DGM(OS)/WBPDCL	8336903685	p.haldar@wbpdcl.co.in	
59	A. Karmakar	ACE/WBSETCL	9434910090	arjit.Karmakar@wbsetcl.co.in	
60	P. N. Kundu	ACE/WBSETCL	9434910263	sidevrrl.maria@gmail.com	



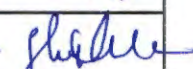
"Coming together is a beginning, staying together is progress, and working together is success." –Henry Ford

Participants in 129th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 17.01.2017 (Tuesday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
61	C. K. Halder	ACE WB SLD	94322-09503	ckhalder@yahoo.co.in	
62	B. Mondal	Engineer ERPC	9903329271	biswajitmondal91@gmail.com	
63	S. H. Jaiswal	Sr. Hyv. (EM) KRVNL	943183802	smjaiswal@ntpc.co.in	
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"Coming together is a beginning, staying together is progress, and working together is success." –Henry Ford

Annexure-B.3 (I)

Schemes of Eastern Region funded under PSDF

State / UT	Sr. No.	Details of the Scheme	Nos. of Schemes	Grant Sanctioned (in Rs Crores)	Date of Sanction	Funds released (in Rs Crores) as on 30.11.2016	% age of fund Disbursed against Grant sanctioned
West Bengal	1.	Renovation and Upgradation of protection system of substations	2	108.60	31/12/2014	11.04	10.16%
	2.	The Renovation and Modernization of 220/132 kV STPS switch yard and implementation of Substaion Automation System.		23.48	5/9/2016	0	0%
Bihar	3.	Renovation and Upgradation of protection system of substations	2	64.22	11/05/2015	18.68	29.09%
	4.	Installation of capacitor bank for Improvement of Voltage profile in BSPTCL, Bihar.		18.88		0	0%
Odisha	5.	Renovation and Upgradation of protection system of substations	1	162.50	11/05/2015	19.52	12.01%
Eastern Regional Power Committee (ERPC)	6.	Creation and Maintanance of Web based Protection Database Management System and Desktop based Protection Setting Calculation Tool for Eastern Regional Grid.	1	20.00	17/03/2016	4.94	24.7%
POWERGRID	7.	Installation of STATCOMs in ER at Ranchi- New,Rourkela, Kishanganj and Jeypore substation of POWERGRID.	1	630.28	5/1/2016	0	0%
TOTAL			7	1027.96			

Reporting Format to the PSDF Project Monitoring Group				
1. Name of the Scheme				
1.1 Name of the substation and its Location				
1.2 Executing Agency				
1.3 State/Region				
2. Date of Sanction order				
2.1 Date of Agreement of Entity with State Govt./NLDC				
2.2 Total Approved Cost of the Scheme				
2.3 Approved Grant by Monitoring Committee (Rs. In Lakhs)				
2.4 Date of Requisition by the Entity				
2.4.a) date and Reference of LOA				
2.4.b) Amount of LOA				
2.5 Date of Disbursement and amount				
2.5.1 : 1st Installment				
2.5.2: IIrd installment				
2.5.3: IIIrd installment				
2.6 Date of Scheduled completion of Work				
2.7 Date of handing over of Site to entity (in case of turnkey projects)				

Report for the Month of MM / YY							
No.	Supply Description	Qty. AS PER LOA	Quantity Received during Month	CUMMULATIVE PROGRESS Till date		BALANCE	Remarks
				Sch.	Act.		
1	item Details						
1.1							
1.2							
....							
	Erection Description	works as per LOA	Progress During Month	CUMMULATIVE PROGRESS Till date		Balance	
2	work details						
2.1							
2.2							
....							
3	Others						
Signature with seal of the Nodal Officer							

Annexure- B.4

ERPC PROJECT

SL. No.	ACTIVITY NAME	DURATION (WEEKS)	APR '16	MAY '16	JUN '16	JULY '16	AUG '16	SEP '16	OCT '16	NOV '16	DEC '16	JAN '17	FEB '17	MAR '17	APR '17
1	DPR SUBMISSION	2													
2	DATA BASE CASE	2													
3	OPERATIONAL LOAD FLOW AND SCS	6													
4	PILOT STATE (ODISHA)														
4.1	DATA COLLECTION	20													
4.2	SLD PREPARATION, RELAY DATA POPULATION IN PDMS & SYSTEM STUDIES	20													
5	WB&SIKKIM														
5.1	DATA COLLECTION	26													
5.2	SLD PREPARATION, RELAY DATA POPULATION IN PDMS &	30													
6	BIHAR&JHARKHAND														
6.1	DATA COLLECTION	26													
6.2	SLD PREPARATION, RELAY DATA POPULATION IN PDMS & SYSTEM STUDIES	30													
7	SERVER ROOM COMPLETION														
8	SUPPLY INSTALLATION OF SERVER	4													
9	SUPPLY INSTALLATION OF PDMS	2													
10	SAT OF PILOT STATE	4													
11	POPULATING ALL DATA IN SERVER	20													
12	TRAINING PROGRAM PDMS	4													
13	DELIVERY OF 32 NOS. PSCT LICENSE	18													
14	TRAINING PROGRAM PSCT	12													
15	FINAL DISCUSS. & COMME.	2													
16	FINAL ACCEPTANCE														

	Completed
	In progress
	Yet to commence
	Same Day Completion
	Final milestone
	Extended

Creation and maintaining a Web based Protection Database and Desktop based Protection setting calculation tool for Eastern Regional Grid

Presentation on Operational System Studies Off peak condition



Load Flow study

Comparison of loading details of 26th May 2016 peak hours and 27th August 2016 off peak hours of ER grid

Sl. No.	Constituents	Load (MW)	
		27 th Aug-16 13:00 hrs	26 th May-16, 20:00 hrs
1	Bihar	2716	3044
2	Jharkhand	799	991
3	Odisha	2872	3354
4	Sikkim	43	75
5	W. Bengal	4858	5460
6	DVC	2426	2621
7	CESC	1507	1441
8	DPL	217	217
Total Load		15438	17203
loss		671	762
Total Demand		16109	17965

Load Generation Balance of ER:

Sl. No.	Description	Quantity (MW)	
		27 th Aug-16 13:00 hrs	26 th May-16, 20:00 hrs
1	Generation	19619	22292
2	Import	2881	1263
Total (Generation + Import)		22500	23555
3	Loss	671 (2.98%)	763 (3.24%)
4	Load	15438	17203
Demand Met (Load + Loss)		16109	17966
5	Export	6391	5589
Total (Load + Export + Loss)		22500	23555

Annexure-B5

Utilization of Transmission line

WBSETCL lines

Sl	Name of Line	Percentage utilization to meet West Bengal Demand		
		Quarter 1 2016-17	Quarter 2 2016-17	Quarter 3 2016-17
1	132 kV Birpara(PG)-Birpara-I	99.2%	94.4%	99.3%
2	132 kV Birpara(PG)-Birpara-II	99.2%	94.4%	99.3%
3	132 kV NJP-NBU-I	98.6%	99.2%	98.1%
4	132 kV NJP-NBU-II	98.6%	99.2%	98.1%
5	132 kV Malda(PG)-Malda-I	99.9%	99.9%	99.9%
6	132 kV Malda(PG)-Malda-II	99.9%	99.9%	99.9%
7	400 kV Kharagpur-Baripada	Natural ISTS		
8	220 kV Santaldhi-Chandil	Natural ISTS		
9	220 kV Waria-Bidhannagar-I	Natural ISTS		
10	220 kV Waria-Bidhannagar-II	Natural ISTS		
11	132 kV Rangit-Rammam	75.0%	70.0%	72.7%
12	220 kV Subhasgram(PG)-Subhasgram-I	98.6%	98.0%	97.6%
13	220 kV Subhasgram(PG)-Subhasgram-II	98.6%	98.0%	97.6%
14	400 kV Parulia-Bidhannagar-I	74.2%	67.8%	59.2%
15	400 kV Parulia-Bidhannagar-II	74.2%	67.8%	59.2%
16	220 kV Dalkhola(PG)-Dalkhola-I	99.7%	99.8%	99.8%
17	220 kV Dalkhola(PG)-Dalkhola-II	99.7%	99.8%	99.8%
18	132 kV Kurseong-Rangit	Part of ISTS		
19	132 kV Kurseong-Siliguri	Part of ISTS		
20	220 kV Subhasgram(PG)-Bantala	98.5%	98.3%	98.0%
21	220 kV Subhasgram(PG)-New Town	96.8%	96.6%	96.0%

DVC lines

Sl	Name of Line	Percentage utilization to meet DVC Demand		
		Quarter 1 2016-17	Quarter 2 2016-17	Quarter 3 2016-17
1	Raghunathpur-DSTPS D/C	14.4%	20.4%	15.2%
2	Raghunathpur-Ranchi (quad) D/C	14.2%	10.7%	20.5%
3	LILO of Maithon(PG)-Ranchi(PG) line at RTPS	Part of ISTS		
4	Termination segment at DSTPS of Jamsedpur PG line	Part of ISTS		

Annexure-B5

OPTCL lines

Sl	Name of Line	Percentage utilization to meet Odisha Demand		
		Quarter 1 2016-17	Quarter 2 2016-17	Quarter 3 2016-17
1	400 kV Indravati-Indravati(PG)	34.4%	31.4%	35.7%
2	400 kV Regali-Keonjhar	15.2%	13.7%	18.2%
3	400 kV Keonjhar-Baripada	15.2%	13.7%	18.2%
4	400 kV Baripada-Khargpur	Natural ISTS		
5	220 kV Balimela-U.Sileru	Natural ISTS		
6	220 kV Jeypore-Jaynagar D/C	6.5%	5.3%	10.7%
7	220 kV Budhipadar-Korba D/C	Natural ISTS		
8	220 kV Tarkera-Bisra D/C	75.7%	71.1%	80.7%
9	220 kV Joda-Ramchandrapur	Natural ISTS		
10	220kV Joda-Jindal	0.2%	0.4%	0.5%
11	220 kV Jindal-Jamsedpur	Natural ISTS		
12	220 kV Rengali-Rengali(PG)	46.4%	38.8%	44.7%
13	220 kV Rengali PH- TSTPS	83.8%	79.9%	86.3%
14	220 kV TTPS-TSTPS	53.2%	44.5%	52.2%
15	220 kV TSTPS-Meramundali	42.2%	23.3%	33.1%
16	220 kV Baripada-Balasore	92.8%	91.3%	93.7%
17	132 kV Joda-Kendposi	Natural ISTS		
18	132 kV Baripada-Rairangpur	99.7%	99.8%	88.7%
19	132 kV Baripada-Baripada(PG)	99.4%	99.7%	99.5%

Annexure- B.8

(+) means receivable, (-) means payable

DATE	DEVIATION	ADDITIONAL DEVIATION	DATE	DEVIATION	ADDITIONAL DEVIATION	DATE	DEVIATION	ADDITIONAL DEVIATION
FROM THE PERIOD 14.11.2016 TO 20.11.2016			FROM THE PERIOD 14.11.2016 TO 20.11.2016			FROM THE PERIOD 14.11.2016 TO 20.11.2016		
		BIHAR			TALA			CHUKHA
14.11	4735521.55	286250.3	14.11	-6282246	0	14.11	3198728	0
15.11	1619476.13	446427.5	15.11	-6538307.84	0	15.11	3502562	0
16.11	1688070.84	172775.2	16.11	-5945495.93	0	16.11	3047359	0
17.11	1742629.03	151121.4	17.11	-7410927.48	0	17.11	4584929	0
18.11	-822636.5	156318.6	18.11	-5324392.72	0	18.11	3430551	0
19.11	1828384.23	25675.52	19.11	-524940.88	0	19.11	4262087	0
20.11	-1009805.99	136234.2	20.11	-5533393.49	0	20.11	4312400	0
TOTAL	9781639.29	1374803		-37559704.34	0		26338615	0
AMOUNT CLAIMED FROM BSEB	7005483.61	-1374803		-9577724.607			7806766	
ADJUSTMENT CHARGES	2776155.68	0						

FROM THE PERIOD 07.11.2016 TO 13.11.2016			FROM THE PERIOD 07.11.2016 TO 13.11.2016			FROM THE PERIOD 07.11.2016 TO 13.11.2016		
		BIHAR			TALA			CHUKHA
7.11	2548035.3	-43812.8	7.11	-8644641.76	0	7.11	5358086	0
8.11	-2798237.5	-389993	8.11	-7007811.89	0	8.11	5076075	0
9.11	-1169907.73	-481567	9.11	-4446199.57	0	9.11	3812120	0
10.11	1854689.92	-141483	10.11	-5550834.64	0	10.11	3848966	0
11.11	569281.1	-113574	11.11	-7143622.08	0	11.11	3973494	0
12.11	995190.98	-59692.1	12.11	-6924014.78	0	12.11	3874722	0
13.11	-310669.75	-90358.3	13.11	-5788365.62	0	13.11	3552514	0
TOTAL	1688382.32	-1320480		-45505490.34	0		29495978	0
AMOUNT CLAIMED FROM BSEB	-953933	-1320480		-11603900.04			8742608	
ADJUSTMENT CHARGES	-2642315.32	0						
(-) MEANS PAYABLE, (+) MEANS RECIEVABLE								

FROM THE PERIOD 31.10.2016 TO 06.11.2016			FROM THE PERIOD 31.10.2016 TO 06.11.2016			FROM THE PERIOD 31.10.2016 TO 06.11.2016		
		BIHAR			TALA			CHUKHA
31.10	2432859.37	126806.6	31.10	-7205937.02	0	31.10	5503201	0
1.11	-3391101.46	949067.2	1.11	-10252843.59	0	1.11	7111770	0
2.11	-148517.6	351615.8	2.11	-9124072.94	0	2.11	5918657	0
3.11	-2202276.62	469652.8	3.11	-9590760.87	0	3.11	5769728	0
4.11	3953495.32	3679.74	4.11	-11621103.65	0	4.11	4880253	0
5.11	-3278612.59	239996.9	5.11	-7286740.93	0	5.11	4933344	0
6.11	2097717.55	369681.8	6.11	-7403412.03	0	6.11	4387459	0
TOTAL	-536436.03	2510501		-62484871.03	0		38504412	0
AMOUNT CLAIMED FROM BSEB	-3817514.47	-2510501		-15933642.11			11412708	
ADJUSTMENT CHARGES	-3281078.44	-0.08						

FROM THE PERIOD 24.10.2016 TO 30.10.2016			FROM THE PERIOD 24.10.2016 TO 30.10.2016			FROM THE PERIOD 24.10.2016 TO 30.10.2016		
		BIHAR			TALA			CHUKHA
24.10	2354632.86	-115310	24.10	-12473194.27	0	24.10	9050850	0
25.10	171315.9	-228921	25.10	-10392714.22	0	25.10	7347471	0
26.10	-2956295.7	-146698	26.10	-10242509.34	0	26.10	6524947	0
27.10	-4498087.28	-674798	27.10	-10960256.81	0	27.10	6090168	0
28.10	-1334074.28	-118959	28.10	-10671237.24	0	28.10	4679040	0
29.10	823913.46	-53995.1	29.10	-10992903.75	0	29.10	4932213	0
30.10	2906453.25	-45205.2	30.10	-10983995.88	0	30.10	6218480	0
TOTAL	-2532141.79	-1383886		-76716811.51	0		44843169	0
AMOUNT CLAIMED FROM BSEB	-6878070	-1383886		-19562786.94			13291515	

Weekly Progress report on Construction of Dedicated Transmission Line:**As on dt.02nd January, 2017****Name of Applicant: Vedanta Ltd**

1.	Dedicated Connectivity Line	Vedanta Switchyard to PGCIL Pooling station Sundargarh. 400KV D/c Line
2.	Length of Dedicated Connectivity Line	20.345 KM
3.	Type of Conductor	AL 59
4.	Conductor configuration	Twin Conductor
5.	Total Nos. of Transmission line towers	64 Nos.
6.	Tower Foundations Completed	60 Nos.
7.	Tower Erection Completed	49Nos.
8.	Stringing Completed	Stringing completed 1.069Km. Stringing in progress in between 17/0 & 19/0 i.e.0.830Km
9.	Completion Schedule of Dedicted transmission line along with the associated bay at Both ends.	28 th Feb, 2017

Manpower Engaged in Power Sector (Separately for Central, State and Private sector)

As on 31st March	Regular						Non-Regular				Grand Total (Regular+ Non Regular)
	Managerial and higher executive	Technical/ scientific officers	Technical Supervisory Staff	Technicians & operating Staff	Non- Technical	Total (Regular) {col 2 to 6}	Technical Trainees and apprentices	Work charged staff	Casual/ Temporary/ Out sourced	Total (Non- Regular) {col 8 to 10}	
1	2	3	4	5	6	7	8	9	10	11	
Actual											
2012											
2013											
2014											
2015											
2016											
Projected/ Estimated											
2017											
2018											
2019											
2020											
2021											
2022											
2023											
2024											
2025											
2026											
2027											

5/10

Details Regarding No. of Consumers and Connected Load etc.

(A) Utilities

As On 31st March of Financial year end	No. of Consumers	Connected Load (kW)	Consumption (MU)	Energy Available for Supply	T&D losses(%)	Per Capita Electricity Consumption(kWh)
1	2	3	4	5	6	7
2011-12						
2012-13						
2013-14						
2014-15						
2015-16						
2016-17						
2017-18						
2018-19						
2019-20						
2020-21						
2021-22						
2022-23						
2023-24						
2024-25						
2025-26						
2026-27						

(B) Non Utilities

As On 31st March of Financial year end	No. of Consumers	Connected Load (kW)	Consumption (MU)	Energy Available for Supply	T&D losses(%)	Per Capita Electricity Consumption(kWh)
1	2	3	4	5	6	7
2011-12						
2012-13						
2013-14						
2014-15						
2015-16						
2016-17						
2017-18						
2018-19						
2019-20						
2020-21						
2021-22						
2022-23						
2023-24						
2024-25						
2025-26						
2026-27						

(C) Utilities + Non Utilities

As On 31st March of Financial year end	No. of Consumers	Connected Load (kW)	Consumption (MU)	Energy Available for Supply	T&D losses(%)	Per Capita Electricity Consumption(kWh)
1	2	3	4	5	6	7
2011-12						
2012-13						
2013-14						
2014-15						
2015-16						
2016-17						
2017-18						
2018-19						
2019-20						
2020-21						
2021-22						
2022-23						
2023-24						
2024-25						
2025-26						
2026-27						

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Details Regarding Installed Capacity, No. of Consumers and Connected Load etc.

(A) Installed Capacity (MW) - Utilities

As On 31st March	Hydro	Thermal				Nuclear	Renewable					Grand Total
		Steam	Gas	Diesel	Total (Thermal)		Wind	Solar	Biomass etc	Mini/Micro Hydel	Total (Renewable)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2012												
2013												
2014												
2015												
2016												
2017												
2018												
2019												
2020												
2021												
2022												
2023												
2024												
2025												
2026												
2027												

(B) Installed Capacity (MW) - Non Utilities

As On 31st March	Hydro	Thermal				Nuclear	Renewable					Grand Total
		Steam	Gas	Diesel	Total (Thermal)		Wind	Solar	Biomass etc	Mini/Micro Hydel	Total (Renewable)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2012												
2013												
2014												
2015												
2016												
2017												
2018												
2019												
2020												
2021												
2022												
2023												
2024												
2025												
2026												
2027												

(C) Installed Capacity (MW) - (Utilities + Non Utilities)

As On 31st March	Hydro	Thermal				Nuclear	Renewable					Grand Total
		Steam	Gas	Diesel	Total (Thermal)		Wind	Solar	Biomass etc	Mini/Micro Hydel	Total (Renewable)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2012												
2013												
2014												
2015												
2016												
2017												
2018												
2019												
2020												
2021												
2022												
2023												
2024												
2025												
2026												
2027												

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Installed Capacity (MW) and Generation (MU) from renewable Resources (Injected into the Grid)

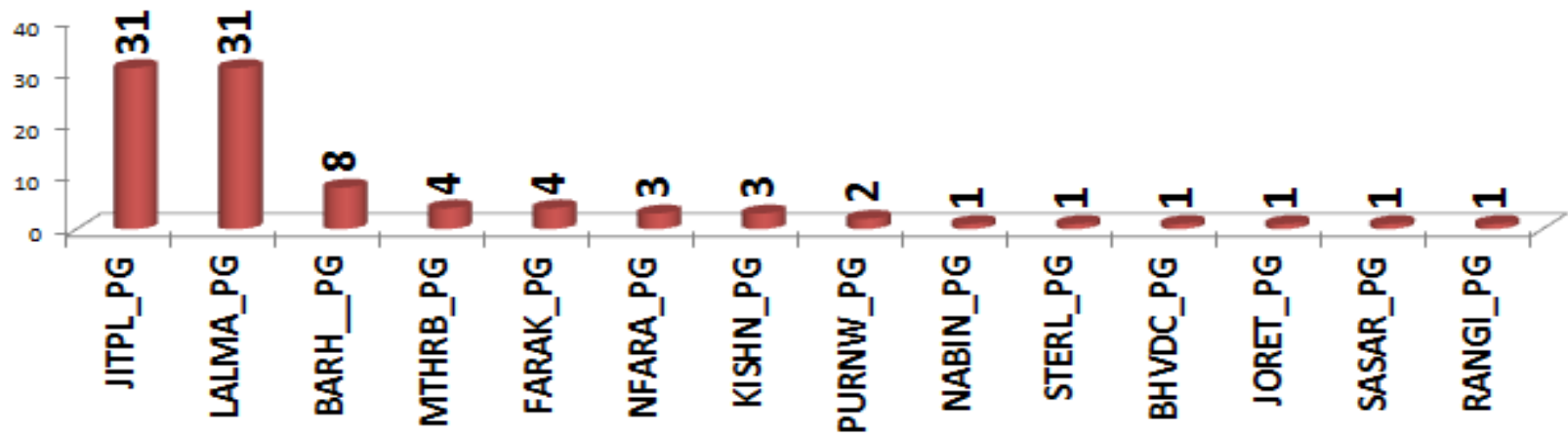
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2. Month :
3. Year :

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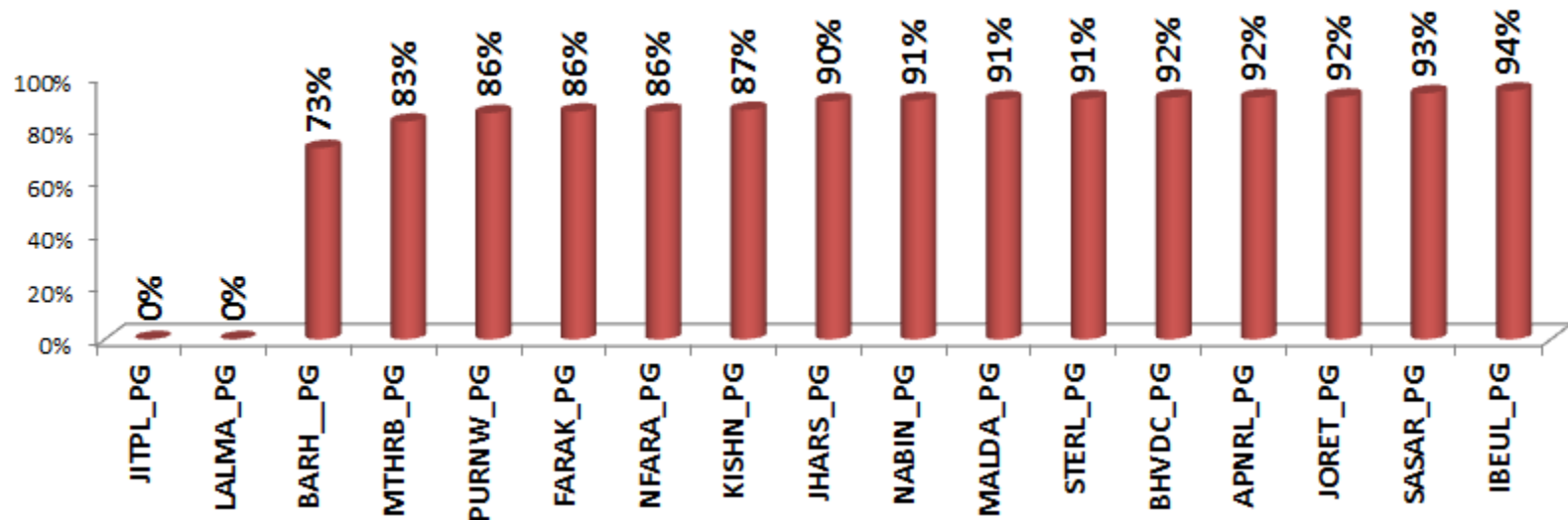
Data availability status for last 31 Days.

Annexure- B.29

Total no of Days with less than 30% availability



Average Percentage availability of Data for Last 30 Days

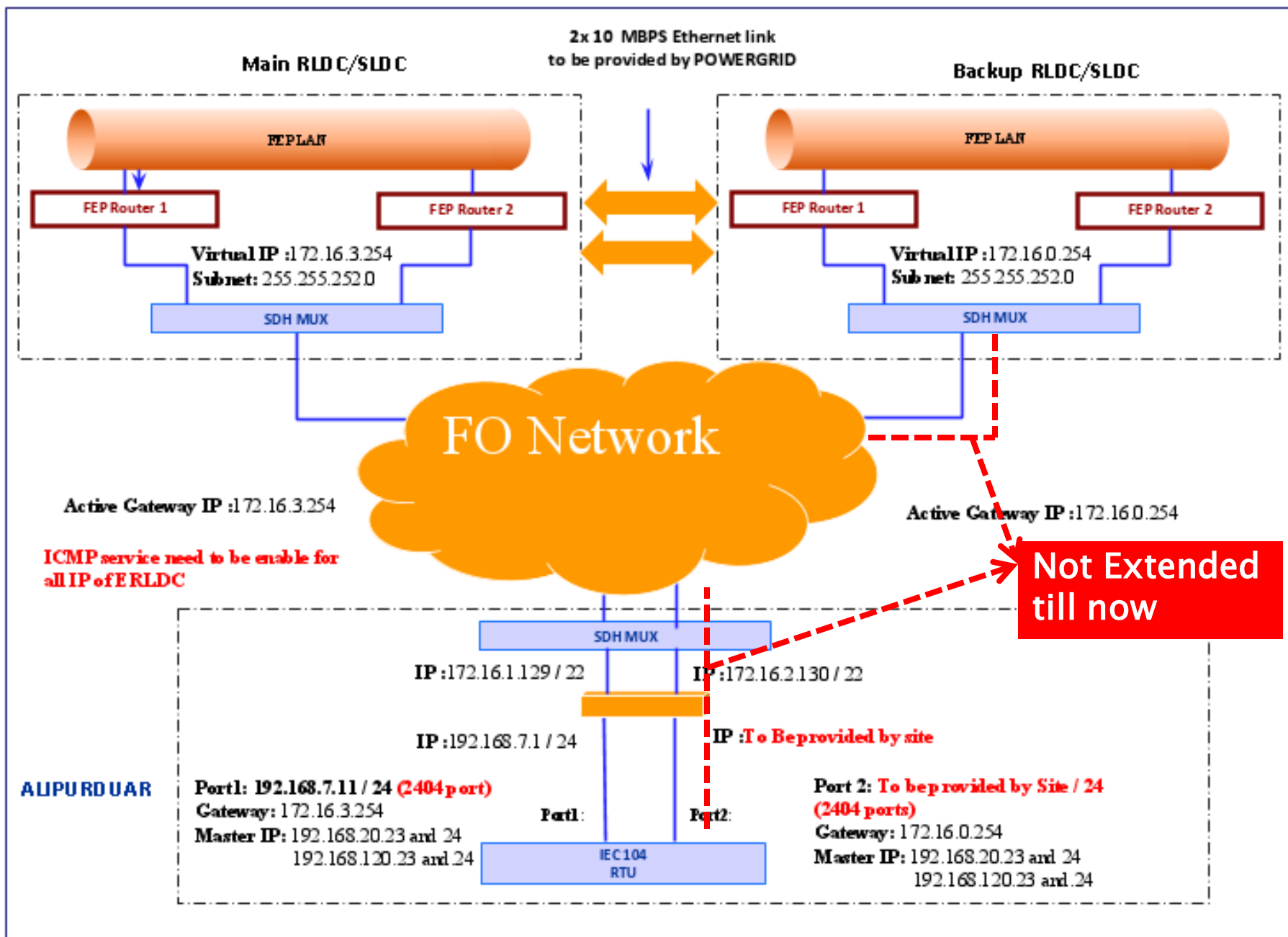


Data availability status for last 30 Days.

	15-01-17	14-01-17	13-01-17	12-01-17	11-01-17	10-01-17	09-01-17	08-01-17	07-01-17	06-01-17	05-01-17	04-01-17	03-01-17	02-01-17	01-01-17	31-12-16	30-12-16	29-12-16	28-12-16	27-12-16	26-12-16
JITPL_PG	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
LALMA_PG	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
BARH_PG	100%	100%	100%	22%	0%	0%	0%	0%	0%	0%	51%	100%	100%	100%	100%	100%	71%	97%	100%	100%	100%
MTHRB_PG	100%	100%	100%	100%	100%	100%	55%	0%	0%	0%	0%	56%	100%	100%	100%	100%	65%	99%	99%	99%	99%
PURNW_PG	99%	55%	67%	64%	99%	99%	99%	99%	99%	99%	99%	99%	100%	100%	100%	100%	70%	100%	100%	100%	54%
FARAK_PG	100%	100%	100%	100%	100%	29%	0%	0%	67%	26%	100%	100%	58%	100%	100%	100%	100%	100%	100%	100%	100%
NFARA_PG	81%	0%	0%	48%	100%	100%	100%	100%	70%	26%	100%	96%	58%	100%	100%	100%	100%	100%	100%	100%	100%
KISHN_PG	0%	0%	0%	71%	73%	99%	100%	100%	100%	98%	99%	100%	100%	99%	99%	99%	70%	100%	99%	100%	98%
JHARS_PG	100%	100%	100%	76%	100%	100%	100%	100%	100%	100%	100%	82%	100%	100%	100%	100%	65%	76%	100%	55%	72%
NABIN_PG	98%	57%	71%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	98%	69%	99%	83%	24%	75%
MALDA_PG	100%	98%	100%	99%	100%	93%	100%	100%	72%	64%	99%	98%	57%	52%	62%	100%	92%	100%	100%	78%	93%
STERL_PG	100%	100%	85%	52%	52%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
BHVDC_PG	98%	98%	18%	47%	98%	98%	98%	98%	98%	98%	99%	98%	98%	98%	98%	98%	41%	98%	91%	98%	98%
APNRL_PG	100%	100%	100%	84%	100%	100%	100%	100%	74%	50%	100%	100%	57%	100%	100%	100%	68%	93%	60%	100%	100%
JORET_PG	100%	100%	100%	100%	100%	92%	100%	100%	100%	100%	88%	92%	100%	100%	99%	100%	71%	100%	71%	96%	100%
SASAR_PG	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	60%	0%	68%	100%	100%	71%	100%	100%	100%	100%
IBEUL_PG	100%	100%	99%	99%	100%	100%	100%	100%	100%	100%	99%	98%	99%	98%	98%	99%	99%	96%	95%	95%	95%
	<50 %																				
	Between 50 % and 90%																				
	>90 %																				

On 03rd Jan 2017 at 00:21 Hrs,
data from 7 nos of stations
(Farakka, Kahalgaon, APNRL imp
Gen Stn.) failed.
Data restored after 10 Hrs.

On 30th Dec 2016 at 04:36 Hrs, all ICCP links
except WBSETCL failed. 29 Nos
PGCIL/NTPC/NHPC/IPP Stations also failed.
Restored at 11:30 Hrs after around 7 Hrs.



IPP

➤ JITPL (2 x 600MW) –

- Stopped reporting since 13-Dec-2016.
- Express voice and **VOIP** yet to be provided. Stand By channel not yet made available.
- Matter has been taken up to the highest level but

➤ GMR (3 x 350 MW):–

- Express voice and **VOIP integration** with ERLDC not yet provided. Stand By channel not yet made available.

KBUNL:–

- Stand By channel not yet made available.

➤ IBEUL (2 x 350 MW):–

- Unit Side data not available. **VOIP/Express** Voice Alternate Data channel yet to be provided.

➤ MPL:–

- Alternate Data channel yet to be provided.

OLTC

1. NEW SASARAM @ 1500 MVA 765/400 kV ICT 1
2. ANGUL @ 1500 MVA 765/400 kV ICT 1
3. ANGUL @ 1500 MVA 765/400 kV ICT 3
4. ANGUL @ 1500 MVA 765/400 kV ICT 4
5. JHARSUGUDA @ 1500 MVA 765/400 kV ICT 1
6. JHARSUGUDA @ 1500 MVA 765/400 kV ICT 2
7. BOLANGIR @ 315 MVA 400/220 kV ICT 1
8. BIHARSHARIF @ 315 MVA 400/220 kV ICT 1
9. BIHARSHARIF @ 315 MVA 400/220 kV ICT 3
10. INDRAVATI (2ND ICT) @ 315 MVA 400/220 kV ICT 1
11. INDRAVATI (2ND ICT) @ 315 MVA 400/220 kV ICT 2
12. JEYPORE @ 315 MVA 400/220 kV ICT 1
13. KEONJHAR @ 315 MVA 400/220 kV ICT 1
14. KEONJHAR @ 315 MVA 400/220 kV ICT 2
15. MALDA @ 315 MVA 400/220 kV ICT 1
16. MUZAFFARPUR @ 315 MVA 400/220 kV ICT 3
17. DURGAPUR @ 315 MVA 400/220 kV ICT 1
18. DURGAPUR @ 315 MVA 400/220 kV ICT 2
19. RANCHI @ 315 MVA 400/220 kV ICT 1

OLTC

1. RANCHI @ 315 MVA 400/220 kV ICT 2
2. RENGALI @ 315 MVA 400/220 kV ICT 2
3. ROURKELA @ 315 MVA 400/220 kV ICT 2
4. ROURKELA @ 315 MVA 400/220 kV ICT 3
5. CHAIBASA @ 315 MVA 400/220 kV ICT 1
6. CHAIBASA @ 315 MVA 400/220 kV ICT 2
7. CHAIBASA @ 315 MVA 400/220 kV ICT 3
8. SUBHASGRAM (ICT I, II & V) @ 315 MVA 400/220 kV ICT 3
9. KISHANGUNJ @ 500 MVA 400/220 kV ICT 1
10. KISHANGUNJ @ 500 MVA 400/220 kV ICT 2
11. KISHANGUNJ @ 500 MVA 400/220 kV ICT 3
12. BARH @ 200 MVA 400/132 kV ICT 1
13. BARH @ 200 MVA 400/132 kV ICT 2
14. LAKHISARAI @ 200 MVA 400/132 kV ICT 3
15. ARRAH @ 100 MVA 220/132 kV ICT 1
16. ARRAH @ 100 MVA 220/132 kV ICT 2
17. MALDA @ 160 MVA 220/132 kV ICT 3
18. PURNEA @ 160 MVA 220/132 kV ICT 1
19. PURNEA @ 160 MVA 220/132 kV ICT 2

NTPC

- Lalmatia: (No data since Jan 2016).
 - 12 month passed but no improvements.
 - NTPC May update.
- Farakka NTPC:
 - Unit #5 MW and MVAR data not matching with site data, Unit # 6 LV side not available.
- Nabinagar NTPC :
 - Alternet Data channel not provided.
 - Unit HV side data.
 - No VOIP.

POWERGRID

- 2MBPS PDT link for Patna PMU has been terminated since 01-Jan-2017 without informing ULDC / ERLDC.

No information when the link to be restored.

- **Data Intermittent /not available:**

- Purnea 400kV (Frequent Failure of RTU)

- Ranchi 400kV, Baripada, Gaya, Angul, Chaibasa

- **VOIP for following station not yet provided:**

- Bolangir , Indravati , Jeypore , Keonjhar

WBSETCL

➤ Following station data not available:

- TLDP 4.
- Gokarna 400kV (400/220 kV ICT was first charged on 15th Sept'16),
- Dharampur 220,
- Krishnanagar 220,
- Hura 220,
- Foundry Park 220.
- Dalkhola
- Bantala
- Lakshmikantapur
- New Town

➤ Haldia (2 x 300MW) :

- LV side data not yet provided.

➤ Sagardighi :

- Unit 3 LV side (Unit) data not available.

➤ **Kolaghat TPS : Kharagpur #1 MW/MVAR flow not available.**

BSPHCL

➤ Data Not provided:

➤ Darbhang,

➤ Valmikinagar and koshi (Connected with Nepal).

➤ Data Intermittent / not available:

➤ Dumraon, Sonenagar, Khagaul
, Darbhanga, Dehri , sultangaunj ,
Lakhisarai, Karmanasa, Kahalgaon, Jamaui
, Banka, Gopalganj, Kisanganj, Arrah
, Rajgir, Sipara , Hajipur(New), Pusauli

JSUNL

➤ Data Intermittent /not available:

- Hatia New 220,
- Dumka 220.
- Patratu(Intermittent)
- DEOGHAR
- DUMKA
- GARHW
- GOELKERA
- JAMTARA
- JAPLA
- KENDOPOSI

DVC

- Data Not provided:
 - Giridhi 220,
- Durgapur TPS (DSTPS): Highly intermittent.

S.No	Region	State	Sub-Station	Owner/ Utility	S/S type	PMU	TOTAL PANEL QTY	PMU Delivery status	Cable Delivery status	Erection	Cable laying	CT/PT/DI termination	Commissi oning	Integration	SAT	Remarks
			83			229	152	26	23	20	20	20	20	11	20	
1	ER-II	West Bengal	Arambagh	WBSETCL	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
2	ER-II	West Bengal	BAKRESHWAR TPS	WBSETCL	CR	4	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
3	ER-II	West Bengal	Bidhannagar	WBSETCL	CR	3	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
4	ER-II	West Bengal	JEERAT	WBSETCL	CR	2	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
5	ER-II	West Bengal	Kolaghat TPS	WBSETCL	CR	4	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel couldn't be delivered due to permission issue.
6	ER-II	West Bengal	KASBA	WBSETCL	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
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	No	No	No	No	No	No	Work not started yet.
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 not available.
12	ER-II	DVC	MEJIA	DVC	CR	5	2	Yes	Yes	No	No	No	No	No	No	Work not started yet.
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	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Amendment for FO cable is awaiting.
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	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
17	Odisha	Orissa	MERAMANDALI	OPTCL	CR	6	2	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
18	Odisha	Orissa	RENGALI	OPTCL	CR	2	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
19	Odisha	Orissa	U.KOLAB	OPTCL	CR	2	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
20	Odisha	Orissa	BALIMELA(H)	OPTCL	CR	3	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
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	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
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	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
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	West Bengal	SUBHASHGRAM	Powergrid	Kiosk	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 22.06.2016
32	Odisha	Orissa	Baripada	Powergrid	CR	3	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	
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	No	No	N/A	N/A	N/A	N/A	N/A	N/A	Road Permit not available.
35	Odisha	Orissa	Keonjhar	Powergrid	CR	2	3	Yes	Yes	done	done	done	done	Pending	done	Communication link not available.
36	Odisha	Orissa	Jharsuguda	Powergrid	Kiosk	8	9	Yes	Yes	done	done	done	done	done	done	PMU integrated on 29.07.2016

PMU Installation and commissioning status of ER as on 19.10.2016

37	Odisha	Orissa	GMR	GMR	CR	3	4	No	No	N/A	N/A	N/A	N/A	N/A	N/A	Road Permit not available.
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. Amendment for FO cable is awaiting.
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	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
42	ER-II	DVC	KALYANESWARI	DVC	CR	4	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
43	ER-II	DVC	PARULIA	DVC	CR	5	2	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
44	ER-II	West Bengal	Bidhannagar 220	WBSETCL		0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
45	ER-II	West Bengal	Purulia PSP	WBSETCL	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
46	ER-II	Jharkhand	Bokaro TPS	DVC	CR	1	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
47	ER-II	West Bengal	Durgapur TPS	DVC	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
48	Odisha	Orissa	TTPS(Talcher)	OPTCL	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
49	Odisha	Orissa	TALCHER	NTPC	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
50	ER-II	Sikkim	TEESTA	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
51	Odisha	Orissa	Uttara	Powergrid	CR	2	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	
52	Odisha	Orissa	Jindal	JITPL	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
53	Odisha	Orissa	Monnet	Monnet	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
54	Odisha	Orissa	Lanco	Lanco	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
55	Odisha	Orissa	Navbharat	Navbharat	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
56	Odisha	Orissa	Strelite	Strelite	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
57	Odisha	Orissa	Ind barath	Ind barath	Kiosk	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
58	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.
59	ER-II	Sikkim	Mangan	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
60	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.
61	ER-II	West Bengal	Alipurduar	Powergrid	CR	6	7	No	No	N/A	N/A	N/A	N/A	N/A	N/A	
62	ER-II	West Bengal	Rajarhat	Powergrid	CR	2	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
63	ER-I	Jharkhand	JAMSHEDPUR	Powergrid	CR	6	2	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
64	ER-I	BIHAR	Kahalgaoon(KHSTPP)	NTPC	CR	6	2	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
65	ER-I	BIHAR	Purnea	Powergrid	CR	6	2	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
66	ER-I	BIHAR	PATNA	Powergrid	Kiosk	6	7	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
67	ER-I	Jharkhand	RANCHI	Powergrid	Kiosk	12	13	No	No	N/A	N/A	N/A	N/A	N/A	N/A	
68	ER-I	BIHAR	SASARAM(Pusauli)	Powergrid	CR+Kiosk	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
69	ER-I	BIHAR	BARH	NTPC	CR	4	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
70	ER-I	BIHAR	LakhiSarai	Powergrid	Kiosk	4	5	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
71	ER-I	BIHAR	BANKA	Powergrid	Kiosk	4	5	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
72	ER-I	Jharkhand	Chaibasa	Powergrid	Kiosk	4	5	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
73	ER-I	BIHAR	765kv Gaya	Powergrid	Kiosk	11	12	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
74	ER-I	Jharkhand	765/400kV Ranchi (N)	Powergrid	Kiosk	8	9	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
75	ER-I	Bihar	Biharshariff	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
76	ER-I	Bihar	MUZAFFAPUR	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
77	ER-I	Jharkhand	Daltonganj	Powergrid	Kiosk	2	3	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
78	ER-I	Bihar	Kishanganj (karandeghi)	Powergrid	CR	4	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
79	ER-I	Jharkhand	Jharkhand Pool (Chandwa)	Powergrid	Kiosk	4	1	No	No	N/A	N/A	N/A	N/A	N/A	N/A	PMU panel dispatched.
80	ER-I	Jharkhand	Patratu	Jharkhand	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
81	ER-I	Jharkhand	Tenughat	Jharkhand	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
82	ER-I	Bihar	Muzaffarpur	Bihar	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
83	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.

PMU Installation and commissioning status of ER as on 19.10.2016

ER PMU site activity Summary:

Sl. No.	Region	Utility	As per approved BOQ		Dispatched		Installed		Commissioned		Integrated to ERLDC/ SLDC		Integrated to NTAMC	
			No. of Substations	No. of PMU	S/S	PMU	S/S	PMU	S/S	PMU	S/S	PMU	S/S	PMU
1	ER-I	Powergrid	15	71	11	59	0	0	0	0	0	0	0	0
2	ER-I	NTPC	2	10	2	10	0	0	0	0	0	0	N/A	N/A
3	ER-I	Jharkhand	2	0	0	0	0	0	0	0	0	0	N/A	N/A
4	ER-I	Bihar	2	0	0	0	0	0	0	0	0	0	N/A	N/A
	ER-I	Total	21	81	13	69	0	0	0	0	0	0	0	0
1	ER-II	Powergrid	14	41	9	35	8	33	8	33	7	29	0	0
2	ER-II	NTPC	1	0	0	0	0	0	0	0	0	0	N/A	N/A
3	ER-II	DVC	13	31	11	31	5	12	5	12	1	2	N/A	N/A
4	ER-II	WBSETCL	8	19	6	19	0	0	0	0	0	0	N/A	N/A
	ER-II	Total	36	91	26	85	13	45	13	45	8	31	0	0
1	Odisha	Powergrid	10	38	9	28	7	23	7	23	3	15	0	0
2	Odisha	OPTCL	8	16	6	16	0	0	0	0	0	0	N/A	N/A
3	Odisha	NTPC	1	0	0	0	0	0	0	0	0	0	N/A	N/A
4	Odisha	IPP	7	3	0	0	0	0	0	0	0	0	N/A	N/A
	Odisha	Total	26	57	15	44	7	23	7	23	3	15	0	0
	ER	Total	83	229	54	198	20	68	20	68	11	46	0	0

Status of PDS system Installation and commissioning at ER as on 19.10.2016

Sl. No.	Site Name	Work Progress
1	ERLDC	Installed, powered up, functioning and integrated with DVC and OPTCL PDS system.
2	Backup-NLDC	POSOCO did not provide space for PDS system installation.
3	SLDC, Maithon	Installed, powered up, functioning and integrated with ERLDC PDS system.
4	SLDC, Bhubaneswar	Installed, powered up, functioning and integrated with ERLDC PDS system.
5	SLDC, Howrah (WBSETCL)	Installed, Powered up and functioning. Communication links for Control centre integration (SLDC Howrah to ERLDC) and for PMU integration are not available.

AVAILABILITY STATUS OF EVENT LOGGER, DISTURBANCE RECORDER & GPS

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

								relays. GPS will be put in service by January, 2015.
32	Indravati (OHPC)	Yes	Faulty	No	No	No	No	Time synchronization will be done by Feb, 2015. ICT-I feeders using DR & EL available in Numerical relays. 400 kV ICT-II feeder is being maintained by PGCIL, Mukhiguda. Status may confirm 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 submitted during ERS meeting held on 10.11.14 taken by Member (Power System), CEA is given below:

- 1) As per 100th OCC meeting held on 22.08.2014, the status of ERS towers as available in Powergrid is as given below:

Sl. 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) As informed by OPTCL, 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 approved by Board of Director for procurement in the current financial year. Purchase order has been placed.
- Another, 16 nos of 400 kV towers accompanied with 6 sets of T&P are required.

- 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) Bihar informed that they have 10 sets of 220 kV ERS towers and 2 sets are under process of procurements.

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

Action Plan to Reduce Tripping of Bongaigaon – Siliguri Lines

This is to inform you that **400kV Bongaigaon-siliguri Ckt-1&2** line tripping's occurred due to heavy wind storm which lead to conductor snapping.

From the month July to Oct-2016, total 6nos of tripping occurred due to conductor snapping because of heavy wind storm during the monsoon.

After the incidents, (***multiple tripping in continuous month***) we have carried out thermo vision test for all the dead end joint & mid span joint, and during the opportunity outage like line outage due to voltage regulation we are providing additional strengthening to dead end clamp by providing ***helical grips*** at vulnerable locations and wherever we observed abnormality during the thermo vision test.

Also we would like to bring to your notice that for the month of **Nov-2016** there we not have any single tripping occurred due to conductor snapping because the climate condition for the month was normal & because of providing addition strength to dead end clamp.

We will provide additional strength to dead end & mid span joint for the remaining identified location during opportunity based shutdown.

Annexure- C.1

EASTERN REGIONAL LOAD DESPATCH CENTRE KOLKATA

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 129TH OCC MEETING OF ERPC

Sr. No	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S/D availed BY	Reason	SUBJECT TO CONSENT FROM AGENCY
1	401 KV RENGALI - INDRAVATI S/C	18-01-2017	07:00	31-01-2017	17:00	ODB	ER-II/Odisha	For carrying out PID Test	Will be allowed after restoration of tie bay of reactor and Indravati line.
2	400KV PATNA-BARH-1 & 400KV KHLG-BARH-2	18-01-2017	08:00	19-01-2017	17:00	ODB	ER-I	FOR INSULATOR REPLACEMENT WITH POLYMER IN THE MULTI CKT PORTION AT BARH	
3	400kv MAITHON-MEJIA-II	18-01-2017	10:00	18-01-2017	17:00	ODB	ER-II/ KOLKATA	INSULATOR DISC BROKEN LOC 12	DVC
4	400 KV TALCHER - ROURKELA CKT-II	19-01-2017	07:00	20-01-2017	17:00	ODB	ER-II/Odisha	For replacement of porcelain Insulator with polymer Long rod in in major crossings like National High way, powerline crossings.	NLDC
5	400KV PATNA-BARH-2 & 400KV KHLG-BARH-1	20-01-2017	08:00	21-01-2017	17:00	ODB	ER-I	FOR INSULATOR REPLACEMENT WITH POLYMER IN THE MULTI CKT PORTION AT BARH	
6	315MVA ICT#2 at Baripada	20-01-2017	09:00	27-01-2017	18:00	OCB	ER-II/Odisha	REPLACEMENT OF 03NOS 400KV HV BUSHING	OPTCL
7	A/R of 400kv Rengali- Indravati line at Bolangir	20-01-2017	08.00	10-02-2017	18.00	ODB	ER-II/Odisha	For Online PID testing for Rengali-Indravati line under Bolangir TLO	
8	220kV Bus Coupler Bay (Bay no- 204) at Rengali	20-01-2017	08.00Hrs.	20-01-2017	17.00Hrs.	ODB	ER-II/Odisha	AMP work	
9	400KV PATNA-BARH-3	20-01-2017	08:00	24-01-2017	17:00	ODB	ER-I	FOR INSULATOR REPLACEMENT WITH POLYMER	
10	400 KV BUS-II of NTPC Farakka	20-01-2017	10:00	20-01-2017	16:00	OCB	ER-II/ KOLKATA	For conducting Bus bar-II stability test for integration of bay-12 after upgradation of bay-12 from 2000A to 3150A rating under ERSS-XIII projects.	
11	220kV TBC Bay (Bay- 203) at Rengali	21-01-2017	10.00Hrs.	21-01-2017	17.00Hrs.	ODB	ER-II/Odisha	AMP work	
12	400 KV TALCHER - ROURKELA CKT-I	21-01-2017	07:00	30-01-2017	17:00	ODB	ER-II/Odisha	For carrying out PID Test	NLDC
13	400 KV Talcher- Angul at Talcher	21-01-2017	08:00	21-01-2017	17:00	ODB	ER-II/Odisha	Replacement of polymer pilot with glass insulator to strengthen line jumpers to prevent swing during high speed wind to avoid tripping in future.	
14	400 KV TALCHER - ROURKELA CKT-II	22-01-2017	07:00	27-01-2017	17:00	ODB	ER-II/Odisha	For carrying out PID Test	NLDC
15	400KV Bay 401 02 at Bolangir	22-01-2017	09.00	05-02-2017	18.00	ODB	ER-II/Odisha	For Construction works of Bay extension & Reactor package	
16	220KV Kalayaneswari line-2	22-01-2017	10:00	22-01-2017	17:30	ODB	ER-II/ KOLKATA	Replacement of Hivelm isolator Arm of Line isolator	DVC
17	400KV Talcher-Tie Bay (Bay- 406) at Rengali	23-01-2017	08.00Hrs.	23-01-2017	17.00Hrs.	ODB	ER-II/Odisha	AMP work	
18	Bay-08 at NTPC Farakka	23-01-2017	10:00	24-01-2017	18:00	ODB	ER-II/ KOLKATA	Testing and commissioning of CSD of CB of Bay-08	
19	220KV Kalayaneswari line-1	23-01-2017	10:00	23-01-2017	17:30	ODB	ER-II/ KOLKATA	Replacement of Hivelm isolator Arm of Line isolator	DVC
20	400/220kv 315MVA ICT-I at Rengali	24-01-2017	08.00Hrs.	07-02-2017	17.00Hrs.	OCB	ER-II/Odisha	Complete overhauling of ICT-I at Rengali S/s.	
21	400 KV BARH-GORAKHPUR-I	24-01-2017	08:00	26-01-2017	18:00	ODB	ER-I	JUMPER TIGHTINF,REPLACEMENT OF SPACER DAMPER AND AMP WORK	NLDC
22	220KV SLG-Kishanganj Ckt-II	24-01-2017	9.00 hrs	24-01-2017	17.00 hrs	ODB	ER-II/ KOLKATA	PG clamp removal	
23	(220KV Bus Coupler)204 Bay at Bolangir	25-01-2017	09.00	25-01-2017	18.00	ODB	ER-II/Odisha	AMP Work	
24	400 KV Chaibasa #2 Main Bay at Rourkela (Bay No.- 409)	25-01-2017	09:00	25-01-2017	18:00	ODB	ER-II/Odisha	AMP Work.	
25	400KV PATNA-BARH-4	25-01-2017	08:00	29-01-2017	17:00	ODB	ER-I	FOR INSULATOR REPLACEMENT WITH POLYMER	
26	400KV Mejia-III line	25-01-2017	10:00	25-01-2017	18:00	ODB	ER-II/ KOLKATA	Replacement of Hivelm isolator Arm of Tie bay isolator of Mejia-III side	DVC
27	400kV Angul- Bolangir Line	26-01-2017	07:00	26-01-2017	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers including replacement of conventional insulator with polymer insulator to prevent swing during high speed wind to avoid tripping in future & improvement of line availability&reliability.	
28	132kv Kurseong - Rangit	26-01-2017	9.00 hrs	27-01-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator fitting	WBSETCL
29	132KV Siliguri - Meli	26-01-2017	9.00 hrs	27-01-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator fitting	
30	315MVA ICT-II at Bolangir	27-01-2017	09.00	27-01-2017	18.00	ODB	ER-II/Odisha	AMP Work	OPTCL
31	400kV Indravati Tie Bay(Bay no- 411) at Rengali	27-01-2017	09.00Hrs.	28-01-2017	17.00Hrs.	OCB	ER-II/Odisha	Erection of Breaker for Bay extension work.	
32	400 KV Chaibasa #1 Main Bay at Rourkela (Bay No.- 416)	27-01-2017	09:00	27-01-2017	18:00	ODB	ER-II/Odisha	AMP Work.	
33	200 MVA ICT-1 AT LAKHISARAI	27-01-2017	08:00	30-01-2017	18:00	ODB	ER-I	CONSTRUCTION OF FIREWALL	BIHAR

34	400 KV NRNC-CHANDWA CKT-1	27-01-2017	09:00	28-01-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
35	400 KV BARH-GORAKHPUR-II	27-01-2017	08:00	29-01-2017	18:00	ODB	ER-I	JUMPER TIGHTINF,REPLACEMENT OF SPACER DAMPER AND AMP WORK	NLDC
36	220 kV GAYA-DEHRI-I	27-01-2017	08:00	29-01-2017	18:00	ODB	ER-I	FOR KHIJARSARAI BAY COMMISSIONING WORK	BIHAR
37	400KV BUS-II AT PATNA	27-01-2017	09:00	28-01-2017	17:00	ODB	ER-I	Construction works: for commissioning of 405 bay	
38	315 MVA ICT-I (Muzaffarpur S/S)	27-01-2017	10:00	27-01-2017	16:00	ODB	ER-I	AMP	BIHAR
39	220 KV Bus Coupler CB	27-01-2017	9.00 hrs	30-01-2017	17.00 hrs	ODB	ER-II/ KOLKATA	CB Overhauling	
40	400 KV BUS-I with Bay no-08 of NTPC Farakka	27-01-2017	10:00	28-01-2017	17:00	ODB	ER-II/ KOLKATA	BUS bar-I stability test has to also carried out. To charge Bay no-09, jumper of Bay no-08 is to be opened and to be connected with isolator of Bay no-09. Then only, Bus reactor#1 with Bay no-09 will come into service.Moreover, de-stringing of strung BUS over bay- 09 is also to be carried out.	
41	220 Kv Ranchi - Hatia - I	27-01-2017	09:00	28-01-2017	17:00	ODB	JHARKHAND	Repalcement of damaged conductor	
42	220 Kv Ranchi - Hatia - I	29-01-2017	09:00	30-01-2017	17:00	ODB	JHARKHAND	Repalcement of damaged conductor	
43	500MVA ICT # 3 at Baripada	28-01-2017	09:00	28-01-2017	18:00	ODB	ER-II/Odisha	ON LINE OPERATION OF CSD	
44	400KV Pandiabili-Mendhasal # 1 & 400KV Baripada-Pandiabili (Both lines together) at Pandiabili	28-01-2017	07:00	28-01-2017	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability&reliability.	OPTCL
45	400KV Bay 402 at Bolangir	28-01-2017	09:00	28-01-2017	18.00	ODB	ER-II/Odisha	AMP Work	
46	132 KV TRANSFER BUS AT PURNEA	28-01-2017	09:00	_____		PERMANENT	ER-I	PERMANENT REMOVAL OF TRANSFER BUS IS REQUIRED FOR GIS BUILDING AND ASSOCIATED CIVIL THE 132 KV TRANSFER BUS AND 132 KV TBC BAY WILL BE UNDER PERMANENT S/D FOR CONSTRUCTION WORK OF AIS TO GIS CONVERSION OF ALL LINE AND ICT 132 KV BAYS	BIHAR
47	132 KV PURNEA - PURNEA BSPTCL#3 OF BSPTCL	28-01-2017	09:00	30-01-2017	17:00	ODB	ER-I	TO FACILITATE WORK OF DISMANTLING OF LM TOWER TO FACILITATE CONSTRUCTION OF GIS BUS DUCT AND SF6 TO AIR BUSHING FOUNDATIONS.	BIHAR
48	132KV Siliguri - Kurseong	28-01-2017	9.00 hrs	28-01-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Jumper Cone Repairing / Insulator fitting	WBSETCL
49	400 KV Talcher- Meramundali at Talcher	29-01-2017	08:00	29-01-2017	17:00	ODB	ER-II/Odisha	Replacement of polymer pilot with glass insulator to strengthen line jumpers to prevent swing during high speed wind to avoid tripping in future.	OPTCL
50	125MVAR BUS REACTOR at Baripada	29-01-2017	09:00	29-01-2017	18:00	ODB	ER-II/Odisha	ON LINE OPERATION OF CSD	
51	400KV Pandiabili-Mendhasal # 2 & 400KV Pandiabili-Duburi (Both lines together) at Pandiabili	29-01-2017	07:00	29-01-2017	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability&reliability.	OPTCL
52	400kv Maithon-JAMSHEDPUR	29-01-2017	10:00	29-01-2017	13:00	ODB	ER-II/ KOLKATA	AMP work for line Bay.	
53	400 KV Meramundali- Angul-II at Talcher	30-01-2017	08:00	30-01-2017	17:00	ODB	ER-II/Odisha	Replacement of polymer pilot with glass insulator to strengthen line jumpers to prevent swing during high speed wind to avoid tripping in future.	OPTCL
54	400KV Keonjhar Liine Main Bay(401) at Baripada	30-01-2017	09:00	01-02-2017	18:00	OCB	ER-II/Odisha	SF6 GAS LEAKAGE RECTIFICATION WORK IN 40152CB	
55	400KV Baripada-Duburi at Pandiabili	30-01-2017	07:00	30-01-2017	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability&reliability.	OPTCL
56	765kV side of ICT#2 Main Bay (707) at Angul	30-01-2017	09:00	01-02-2017	18:00	OCB	ER-II/Odisha	FOR DCRM REFURBISHMENT OF CB.	NLDC
57	400kV Rengali-Talcher-I Line at Rengali	30-01-2017	11.00Hrs.	30-01-2017	15.00Hrs.	ODB	ER-II/Odisha	Retrofitting of DP Relay	
58	400 KV Chaibasa #1 & Sundargarh #1 Tie Bay at Rourkela (Bay No.- 417)	30-01-2017	09:00	30-01-2017	18:00	ODB	ER-II/Odisha	AMP Work.	
59	400 KV NRNC-CHANDWA CKT-2	30-01-2017	09:00	31-01-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
60	400 KV BIHARSHARIF-MUZAFFARPUR -II	30-01-2017	08:00	31-01-2017	18:00	ODB	ER-I	JUMPER TIGHTINF,REPLACEMENT OF SPACER DAMPER AND AMP WORK	NLDC
61	400 KV CHAIBASA-KHARAGPUR CKT -1	30-01-2017	09:00	30-01-2017	17:00	ODB	ER-I	FOR COMMISSIONING OF CSD IN TIE CB	
62	765 kV GAYA-VARANASI-I	30-01-2017	10:00	30-01-2017	18:00	ODB	ER-I	FOR HV BUSHING REPLACEMENT WORK IN Y-PHASE LINE REACTOR	NLDC
63	400KV BUS-1 AT JAMSHEDPUR	30-01-2017	09:30	30-01-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK FOR 3rd ICT	
64	400KV NPRN-MALDA-2	30-01-2017	10:00	30-01-2017	18:00	ODB	ER-I	REPLACEMENT OF Y PH CVT AT NPRN	NLDC
65	315 MVA ICT-II (Muzaffarpur S/S)	30-01-2017	10:00	30-01-2017	16:00	ODB	ER-I	AMP	BIHAR
66	401 RANCHI MAITHON-I MAIN BAY AT RANCHI	30-01-2017	10:00	30-01-2017	17:30	ODB	ER-I	AMP Work	

67	TIE BAY OF 315 MVA ICT-II AND FUTURE BAY AT PATNA	30-01-2017	09:30	30-01-2017	17:30	ODB	ER-I	AMP work	
68	400kV Angul- Meramundali Line-1	31-01-2017	07:00	31-01-2017	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability&reliability.	OPTCL
69	Tie Bay-708 of 765KV Sundergarh-Angul Line#II at Sundergarh	31-01-2017	08:00	03-02-2017	18:00	OCB	ER-II/Odisha	REFURBISHMENT OF 765KV CB FOR DCRM PROBLEM(CONSTRUCTIONAL DEFECT)	
70	400kV Rengali-Talcher-II Line at Rengali	31-01-2017	11.00Hrs.	31-01-2017	15.00Hrs.	ODB	ER-II/Odisha	Retrofitting of DP Relay	
71	400 KV Rourkela - Sundargarh #2 Main Bay at Rourkela (Bay No.- 430)	31-01-2017	09:00	31-01-2017	18:00	ODB	ER-II/Odisha	Checking of DC Earth Fault in TC-2 Circuit.	
72	315 MVA ICT -3 AT BSF	31-01-2017	10:00	31-01-2017	18:00	ODB	ER-I	FOR AMP WORK OF ICT-3 & ASSOCIATED 220KV LINE BAY	BIHAR
73	315 MVA ICT-II AT RANCHI	31-01-2017	10:00	31-01-2017	17:30	ODB	ER-I	AMP work	Jharkhand
74	400KV BUS-2 AT JAMSHEDPUR	31-01-2017	09:30	31-01-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK FOR 3rd ICT	
75	Main Bay BSF-1 AT LAKHISARAI	31-01-2017	10:00	31-01-2017	14:00	ODB	ER-I	AMP WORK	
76	MAIN BAY OF 500 MVA ICT-I AT PATNA	31-01-2017	09:30	31-01-2017	17:30	ODB	ER-I	AMP work	
77	315 MVA ICT-I at Subhasgram	01-02-2017	08:30	01-02-2017	17:00	ODB	ER-II/ KOLKATA	220KV Bph LA replacement	WBSETCL
78	765 KV Bus-I AT NEW RANCHI	01-02-2017	08:00	01-02-2017	18:00	ODB	ER-I	AMP WOK	NLDC
79	400 KV CHAIBASA-KHARAGPUR CKT -2	01-02-2017	09:00	01-02-2017	17:00	ODB	ER-I	FOR COMMISSIONING OF CSD IN TIE CB	
80	220 KV ARA-KHAGAUL-I	01-02-2017	10:00	04-02-2017	18:00	OCB	ER-I	CB Overhauling AT BSPTCL KHAGAUL END(LINE OUTAGE REQUIRED DUE TO NON COMMISSIONING OF TBC AT KHAGAUL END)	BIHAR
81	400 KV D/C Muzaffarpur-Gorakhpur Ckt-I	01-02-2017	10:00	01-02-2017	16:00	ODB	ER-I	AMP	NLDC
82	MAIN BAY OF ICT-1 (CWD60-Q52) AT SSRM	01-02-2017	10:00	01-02-2017	18:00	ODB	ER-I	AMP WORK	
83	Tie BAY OF MTN-I & ICT-I AT RANCHI	01-02-2017	10:00	01-02-2017	17:00	ODB	ER-I	AMP Work	
84	400KV Berhampore Bheramara Ckt-I Line(404 bay)	01-02-2017	09:00	01-02-2017	18.00Hrs	ODB	ER-II/ KOLKATA	Replacement of Line isolator PAD (89L), AMP	NLDC
85	220kV NSLG-BRP Ckt-I & II	01-02-2017	9.00 hrs	10-02-2017	17.00 hrs	OCC	ER-II/ KOLKATA	PG clamp removal / Tower shifting at loc 178 by N F Railway	NLDC
86	400kV NSLG-Rangpo Ckt-II	01-02-2017	9.00 hrs	01-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Hot spot rectification	
87	400kV Bus-I	01-02-2017	07.00 hrs	04-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	To facilitate hot spot rectification in Purnea-3 & 4 Line and Rangpo-1 & 2 Line	
88	400 KV Maithon Line1	01-02-2017	10:00	01-02-2017	13:00	ODB	ER-II/ KOLKATA	Wave trap jumper rectification	
89	400kv MEJIA-JAMSHEDPUR	01-02-2017	10:30	01-02-2017	16:00	ODB	ER-II/ KOLKATA	CONDUCTOR STRAND DAMAGE LOC 15-16 (LILO SIDE)	DVC
90	220kV S'gram-CESC-2	02-02-2017	08:30	02-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP	WBSETCL
91	220KV BALASORE LINE-I BAY-201 AT BARIPADA	02-02-2017	09:00	02-02-2017	18:00	OCB	ER-II/Odisha	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY, FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	
92	765KV Bus Reactor-1 Main Bay (712) at Angul	02-02-2017	09:00	04-02-2017	18:00	OCB	ER-II/Odisha	FOR DCRM REFURBISHMENT OF CB.	NLDC
93	ICT-I (3x 105 MVA) at Jeypore	02-02-2017	10:30:00	02-02-2017	11:30:00	ODB	ER-II/Odisha	For changing ICT-I combination form Unit-I,III, IV to Unit-I,II and III for charging Unit-II after Overhauling works	OPTCL
94	125 MVAR Bus Reactor at Rourkela	02-02-2017	09:00	02-02-2017	18:00	ODB	ER-II/Odisha	Removal of Control & Power Cable for testing at third party Lab by M/s Siemens.	
95	132 KV PURNEA - PURNEA BSPTCL#3 LINE	02-02-2017	09:00	02-02-2017	17:00	ODB	ER-I	TO FACILITATE WORK OF DISMANTLING OF LM TOWER TO FACILITATE CONSTRUCTION OF GIS BUS DUCT AND SF6 TO AIR BUSHING FOUNDATIONS.	BIHAR
96	160 MVA ICT-2 AT PURNEA	02-02-2017	10:00	02-02-2017	17:00	ODB	ER-I	To facilitate Construction of GIS bus duct & SF6 to air bushing foundation. Dismantling of 132 kv Transfer Bus section which is above KISHANGANJ & ICT #2 bay 1.Removing of jumpers of each phase from Transfer Bus to tandem isolator. 2.Dismantling of Transfer bus Conductors of that particular section.	BIHAR
97	400 KV VNS - BSF -. I	02-02-2017	09:00	02-02-2017	18:00	ODB	ER-I	FOR BALANCE BUS SPLIT WORK AT BSF	NLDC
98	400KV KAHALGAON - MAITHAN CKT. # I & II	02-02-2017	09:00	04-02-2017	18:00	OCB	ER-I	FOR POWER LINE CROSSING OF EXISTING 400 KV KAHALGAON - MAITHAN D/C LINE, 400 KV FARAKKA - KAHALGAON LINE(CKT.1,2, 3 & 4) AND 400 KV KHLG - BARH -1 & 2 BY CONSTRUCTION OF NEW LINE FOR SHIFTING OF 400KV KAHALGAON - BANKA LINE UNDER BUS SPLIT SCHEME AT NTPC SWITCHYARD, KAHALGAON.	NLDC
99	220KV BUS-I AT GAYA	02-02-2017	10:00	02-02-2017	18:00	ODB	ER-I	FOR KHIJARSARAI BAY COMMISSIONING WORK	
100	400KV JAMSHEDPUR-TISCO	02-02-2017	09:30	02-02-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK FOR 3rd ICT	

101	400 KV D/C Muzaffarpur-Gorakhpur Ckt-II	02-02-2017	10:00	02-02-2017	16:00	ODB	ER-I	AMP	NLDC
102	TIE BAY OF BSF-1 & ICT-1 AT LAKHISARAI	02-02-2017	10:00	02-02-2017	14:00	ODB	ER-I	AMP WORK	
103	MAIN BAY OF 400KV BSF-LAKHISARAI-1(413 BAY) AT BSF	02-02-2017	10:00	08-02-2017	18:00	OCB	ER-I	OVERHAULING OF PNEUMATIC DRIVE MECHANISM OF CKT BREAKER	
104	400kV NSLG-Rangpo Ckt-I	02-02-2017	9.00 hrs	02-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Hot spot rectification	
105	400kV Tala-I L/R along with Line	02-02-2017	9.00 hrs	02-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Repeat tan delta of 400kV R Phase Bushing & Neutral Bushing Replacement / oil leakage arrest.	NLDC
106	WBSETCL 220kV Bus Section-1	02-02-2017	9.00 hrs	04-02-2017	17.00 hrs	OCC	ER-II/ KOLKATA	CB Overhauling	WBSETCL
107	400kV Tala Ckt-I	02-02-2017	9.00 hrs	02-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Relay retrofitting	NLDC
108	400kV NSLG-Bangaigaon Ckt-1	02-02-2017	07.00 hrs	05-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	NLDC
109	400kV NSLG-Tala Ckt-4	02-02-2017	07.00 hrs	02-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	NLDC
110	220 KV DVC#1	02-02-2017	11:00	02-02-2017	12:00	ODB	ER-II/ KOLKATA	CB Overhauling-trasfer load to transfer bus & protection testing	
111	400kV MTN Mejia-I Line	02-02-2017	10:00	02-02-2017	13:00	ODB	ER-II/ KOLKATA	AMP Work	DVC
112	400 KV Subhasgram- Jeerat Line	03-02-2017	08:30	03-02-2017	17:00	ODB	ER-II/ KOLKATA	LA & Jumper replacemnet at jeerat end.	WBSETCL
113	220KV BALASORE LINE-II BAY-202 AT BARIPADA	03-02-2017	09:00	03-02-2017	18:00	OCB	ER-II/Odisha	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	
114	ICT-II at Jeypore	03-02-2017	09:30:00	03-02-2017	17:30:00	ODB	ER-II/Odisha	For Replacement of 390 kV LAs with 336 kV LAs	OPTCL
115	400 KV Rourkela - Raigarh #2 at Rourkela	03-02-2017	09:00	03-02-2017	09:30	ODB	ER-II/Odisha	For isolating Line Reactor for AMP Work.	NLDC
116	400 KV Rourkela - Raigarh #2 Line Reactor (419LR) at Rourkela	03-02-2017	09:30	03-02-2017	17:30	ODB	ER-II/Odisha	Line Reactor AMP Work.	NLDC
117	400 KV Rourkela - Raigarh #2	03-02-2017	17:30	03-02-2017	18:00	ODB	ER-II/Odisha	For connecting Line Reactor after its AMP Work.	NLDC
118	132 KV PURNEA KISHANGANJ LINE	03-02-2017	11:00	03-02-2017	13:00	ODB	ER-I	To facilitate Construction of GIS bus duct & SF6 to air bushing foundation. Dismantling of 132 kv Transfer Bus section which is above KISHANGANJ & ICT #2 bay 1.Removing of jumpers of each phase from Transfer Bus to tandem isolator. 2.Dismantling of Transfer bus Conductors of that particular section.	BIHAR
119	765 KV Bus-II AT NEW RANCHI	03-02-2017	08:00	03-02-2017	18:00	ODB	ER-I	AMP WOK	NLDC
120	400 KV VNS - BSF -- 2	03-02-2017	09:00	03-02-2017	18:00	ODB	ER-I	FOR BALANCE BUS SPLIT WORK AT BSF	NLDC
121	220KV BUS-II AT GAYA	03-02-2017	08:00	03-02-2017	18:00	ODB	ER-I	FOR KHIJARSARAI BAY COMMISSIONING WORK	
122	315MVA ICT-2 AT JAMSHEDPUR	03-02-2017	09:30	03-02-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK FOR 3rd ICT	Jharkhand
123	400 KV D/C Muzaffarpur-Purnea Ckt-I	03-02-2017	10:00	03-02-2017	16:00	ODB	ER-I	AMP	NLDC
124	MAIN BAY OF ICT-2 (CWD70-Q52) AT SSRM	03-02-2017	10:00	03-02-2017	18:00	ODB	ER-I	AMP WORK	
125	400KV Berhampore Sagardighi Ckt-I Line(407 bay)	03-02-2017	09:00	03-02-2017	16.00Hrs	ODB	ER-II/ KOLKATA	Fixing Alingment of isolator (89A) and AMP	NLDC
126	220kV NSLG-SLG Ckt-II	03-02-2017	9.00 hrs	03-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Relay retrofitting / AMP	
127	400kV NSLG-Kishanganj-2 Line	03-02-2017	07.00 hrs	03-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Hot spot rectification	
128	400 KV Subhasgram- Jeerat Line	04-02-2017	08:30	04-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP at Jeerat End.	WBSETCL
129	220 KV BUS COUPLER BAY-203 AT BARIPADA	04-02-2017	09:00	04-02-2017	18:00	OCB	ER-II/Odisha	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	
130	Tie Bay-705 of 765KV B/R-II & 765KV ICT-II at Sundergarh	04-02-2017	08:00	08-02-2017	18:00	OCB	ER-II/Odisha	REFURBISHMENT OF 765KV CB FOR DCRM PROBLEM(CONSTRUCTIONAL DEFECT)	
131	765/400 kv ICT-I AT GAYA	04-02-2017	10:00	04-02-2017	18:00	ODB	ER-I	AMP WORK	NLDC
132	MAIN BAY OF ICT-1 AT LAKHISARAI	04-02-2017	10:00	04-02-2017	14:00	ODB	ER-I	AMP WORK	
133	400kV NSLG-Kishanganj-1 Line	04-02-2017	07.00 hrs	04-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Hot spot rectification	
134	220 KV DVC#1	04-02-2017	11:00	04-02-2017	12:00	ODB	ER-II/ KOLKATA	Final commissioning of CB	
135	BNG-IV L/R at New Siliguri	05-02-2017	9.00 hrs	05-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	AMP	
136	WBSETCL 220kV Bus Section-2	05-02-2017	9.00 hrs	07-02-2017	17.00 hrs	OCC	ER-II/ KOLKATA	CB Overhauling	WBSETCL
137	220kV NSLG-BRP Ckt-II	05-02-2017	9.00 hrs	05-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Relay retrofitting / AMP	
138	400kV NSLG-Tala Ckt-1	05-02-2017	07.00 hrs	05-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	NLDC

139	400 KV Farakka- Kahalgaon 3 & 4	05-02-2017	09:00	22-02-2017	17:00	ODB	ER-II/ KOLKATA	Erection of tower at Loc no. 3/0, 5/0 & 5A/0 of LILO of 400 KV Rajarhat- Purnea D/c at Farakka and stringing between Loc 2/0-3/0-4/0 & (5/0 to 5A/0). <i>Special Remarks :</i> Distance between 3/0 to 400 KV FKK-Kahalgaon -3&4 line is very less. Span between 5/0 to 5A/0 is 80 mtrs,so distance between tower 5/0 & 5A/0 to 400 KV Farakka - Kahalgaon line is even less. Tower height of 3/0 is 75 mtrs (DD+25) while those of 5/0 and 5A/0 is approx 80 mtrs (DD+25 Mtrs with 4 m RC). So, during erection of 3/0, 5/0, 5A/0 , shutdown is required for passing stay / guy wires /ropes etc.	NLDC
140	400kv MAITHON-RIGHTBANK-I	05-02-2017	10:30	05-02-2017	16:00	ODB	ER-II/ KOLKATA	INSULATOR DISC BROKEN LOC 14	
141	220KV SLG-KISHANGANJ-I	05-02-2017	9000	05-02-2017	16:00 Hrs	ODB	ER-II/ KOLKATA	AMP WORK & ISOLATOR REMOTE OPERATION CHECKING FROM NTAMC	
142	315 MVA ICT-V at Subhasgram	06-02-2017	08:30	06-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP & PSD commissioning	WBSETCL
143	220 KV SIDE OF 315 MVA ICT-II, BAY-204 at Baripada	06-02-2017	09:00	06-02-2017	18:00	OCB	ER-II/Odisha	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	
144	400KV side of ICT#1 Main Bay (401) at Angul	06-02-2017	09:00	06-02-2017	15:00	ODB	ER-II/Odisha	AMP WORK	
145	765/400KV, 1500MVA ICT-II at Sundergarh	06-02-2017	08:00	06-02-2017	18:00	ODB	ER-II/Odisha	Commissioning of CSD in 400KV side of ICT-II	NLDC
146	400 KV Talcher #1 Tie Bay (Bay No.- 405) at Rourkela	06-02-2017	09:00	06-02-2017	14:00	ODB	ER-II/Odisha	Overhauling of Air Compressor of 40552 CB.	
147	220 kV NEW PURNEA -PURNEA #1	06-02-2017	09:00	06-02-2017	17:00	ODB	ER-I	AMP WORK OF BAY EQUIPMENTS	
148	765KV B/R -2 AT NEW RANCHI	06-02-2017	08:00	08-02-2017	18:00	ODB	ER-I	RTV COATING OF TRENCH MAKE BUSHING RECOMMENDED BY MANUFACTURER DUE TO DESIGN DEFICIENCY	NLDC
149	765/400 KV ICT-II AT GAYA	06-02-2017	10:00	06-02-2017	18:00	ODB	ER-I	AMP WORK	NLDC
150	220 KV ARA-KHAGAU-II	06-02-2017	10:00	09-02-2017	18:00	OCB	ER-I	CB Overhauling AT BSPTCL KHAGAU END(LINE OUTAGE REQUIRED DUE TO NON COMMISSIONING OF TBC AT KHAGAU END)	BIHAR
151	400KV JAMSHEDPUR-MAITHON	06-02-2017	09:30	06-02-2017	17:30	ODB	ER-I	AMP work	
152	400 KV D/C Muzaffarpur-Purnea Ckt-II	06-02-2017	10:00	06-02-2017	16:00	ODB	ER-I	AMP	NLDC
153	Main Bay KHG-2 AT LAKHISARAI	06-02-2017	10:00	06-02-2017	14:00	ODB	ER-I	AMP WORK	
154	400 KV RANCHI-RGP-I MAIN BAY AT RANCHI	06-02-2017	10:00	06-02-2017	17:30	ODB	ER-I	AMP Work	
155	MAIN BAY OF 125MVAR B/R-2(BAY 418) AT NPRN	06-02-2017	10:00	06-02-2017	18:00	ODB	ER-I	AMP WORK	
156	Main Bay (403 bay) of Berhampore -Jeerat Line	06-02-2017	09:00	06-02-2017	16:00Hrs	ODB	ER-II/ KOLKATA	Checking of wiring and operation of Breaker (52CB) from SCADA and AMP	
157	400KV NSLG-Bangaigaon Ckt-2	06-02-2017	07:00 hrs	10-02-2017	17:00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	NLDC
158	220 KV BRP-Malbase S/C	06-02-2017	08:00 Hrs	11-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	CLR Insulator Replacement	NLDC
159	400 KV New Siliguri-New Purnea # I	06-02-2017	09:00 Hrs	06-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	New Hardware fitting fixing	
160	500MVA ICT-I at Maithon	06-02-2017	09:30	06-02-2017	17:30	ODB	ER-II/ KOLKATA	Leakage arresting work	DVC
161	220 KV BUS-I with Bus Coupler	06-02-2017	09:00	06-02-2017	14:00	ODB	ER-II/ KOLKATA	Jumper Change	
162	220KV SLG-KISHANGANJ-II	06-02-2017	9000	06-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	CB COMPRESSOR REPLACEMENT &AMP WORK, ISOLATOR REMOTE OPERATION CHECKING FROM NTAMC	
163	132KV RANGIT-KURSEAONG & Rangit-Rangpo Line	06-02-2017	08:00	06-02-2017	17:00	ODB	ER-II/ KOLKATA	For repairing of STUB at Leg C of Tower no. 24/DC+0 and replacement of buckled/bend leg members and sag correction of both circuits	WBSETCL
164	400kv SgTPP-Parulia #2	06-02-2017	07:00	06-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
165	220 KV SIDE OF 315 MVA ICT-I, BAY-208 at Baripada	07-02-2017	09:00	07-02-2017	18:00	OCB	ER-II/Odisha	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	
166	400KV Bolangir Line & ICT#1 TIE Bay (402) at Angul	07-02-2017	09:00	07-02-2017	15:00	ODB	ER-II/Odisha	AMP WORK	
167	765/400KV, 1500MVA ICT-I at Sundergarh	07-02-2017	08:00	07-02-2017	18:00	ODB	ER-II/Odisha	Charging of 33KV auxiliary Transformer and commissioning of CSD in 400KV side of ICT-I	NLDC
168	ICT-II Main Bay (418) at Jeypore	07-02-2017	09:30:00	07-02-2017	17:30:00	ODB	ER-II/Odisha	For AMP works	OPTCL
169	400KV ICT-II Tie Bay at Keonjhar	07-02-2017	09:00	07-02-2017	18:00	ODB	ER-II/Odisha	For AMP Works	
170	400 KV Talcher #1 Main Bay (Bay No.- 406) at Rourkela	07-02-2017	09:00	07-02-2017	14:00	ODB	ER-II/Odisha	Overhauling of Air Compressor of 40652 CB.	
171	220 kV NEW PURNEA -PURNEA # 2	07-02-2017	09:00	07-02-2017	17:00	ODB	ER-I	AMP WORK OF BAY EQUIPMENTS	
172	400 KV KHG - LAKHISARAI - I	07-02-2017	09:00	07-02-2017	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR WITH POLYMER.	
173	315 MVA , 400/220 KV ICT-2 AT SSRM	07-02-2017	10:00	07-02-2017	18:00	ODB	ER-I	for AMP of ICT-2 & 220 KV side bay	BIHAR
174	400KV FARAKKA - KAHALGAON CKT. # III & IV	07-02-2017	09:00	09-02-2017	18:00	OCB	ER-I	FOR POWER LINE CROSSING OF EXISTING 400 KV KAHALGAON - MAITHAN D/C LINE, 400 KV FARAKKA - KAHALGAON LINE(CKT.1,2, 3 & 4) AND 400 KV KHLG - BARH -1 & 2 BY CONSTRUCTION OF NEW LINE FOR SHIFTING OF 400KV KAHALGAON - BANKA LINE UNDER BUS SPLIT SCHEME AT NTPC SWITCHYARD, KAHALGAON.	

175	132 KV BANKA(PG) - BANKA (BSPTCL)-I	07-02-2017	11:00	07-02-2017	14:00	ODB	ER-I	AMP WORK	BIHAR
176	765KV GAYA-BALLIA LINE	07-02-2017	09:00	07-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
177	80 MVAR B/R AT RANCHI	07-02-2017	10:00	07-02-2017	17:30	ODB	ER-I	AMP work	
178	400 KV BUS-II (Muzaffarpur S/S)	07-02-2017	10:00	09-02-2017	16:00	ODB	ER-I	AMP	
179	TIE BAY OF KHG-2 & Bus Reactor AT LAKHISARAI	07-02-2017	10:00	07-02-2017	14:00	ODB	ER-I	AMP WORK	
180	MAIN BAY OF 400KV NPRN-MALDA-2(BAY 413) AT NPRN	07-02-2017	10:00	07-02-2017	16:00	ODB	ER-I	REPLACEMENT OF R & Y PH CT AT NPRN	
181	Maintenance work for 400KV ICT # 1 Barh	07-02-2017	09:30hrs	11-02-2017	18:00 hrs	OCB	BARH	PM Job of ICT # 1 Annual testing	
182	Maintenance work for 400KV Bay of ICT # 1, BAY No:04,05,06	07-02-2017	09:30hrs	11-02-2017	18:00 hrs	OCB	BARH	PM Job of Bay & Relay test	
183	220kV NSLG-BRP Ckt-I	07-02-2017	9.00 hrs	07-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Relay retrofitting / AMP	
184	400kV NSLG-Tala Ckt-2	07-02-2017	07.00 hrs	07-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	NLDC
185	400 KV New Siliguri-New Purnea # I	07-02-2017	09:00 Hrs	07-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	New Hardware fitting fixing	
186	220 KV ICT#2 incommer	07-02-2017	11:00	07-02-2017	12:00	ODB	ER-II/ KOLKATA	CB Overhauling-trasfer load to transfer bus & protection testing , Fixing of insulation sleeve	
187	SgTPP:400kv bay of 315MVA ICT#1	07-02-2017	07:00	07-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
188	220kV S'gram-CESC-1	08-02-2017	08:30	08-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP	WBSETCL
189	220 KV SIDE OF 160 MVA ICT-I, BAY-209 at Baripada	08-02-2017	09:00	08-02-2017	18:00	OCB	ER-II/Odisha	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	
190	765kV side of ICT#1 Main Bay (704) at Angul	08-02-2017	09:00	08-02-2017	17:00	ODB	ER-II/Odisha	AMP WORK	NLDC
191	400 KV Talcher #2 Main Bay (Bay No.- 407) at Rourkela	08-02-2017	09:00	08-02-2017	14:00	ODB	ER-II/Odisha	Overhauling of Air Compressor of 40752 CB.	
192	400 KV KHG - LAKHISARAI - 2	08-02-2017	09:00	08-02-2017	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR WITH POLYMER.	
193	132 KV BANKA(PG) - BANKA (BSPTCL)-2	08-02-2017	11:00	08-02-2017	14:00	ODB	ER-I	AMP WORK	BIHAR
194	765KV GAYA-VARANASI-I LINE	08-02-2017	09:00	09-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
195	400KV JAMSHEDPUR-CHAIBASA-1	08-02-2017	09:30	08-02-2017	17:30	ODB	ER-I	AMP work	
196	TIE BAY OF 400 KV RNC-RAGHUNTHPUR-I AND ICT-II AT RANCHI	08-02-2017	10:00	08-02-2017	13:00	ODB	ER-I	AMP Work	
197	MAIN BAY OF 400KV NPRN-MALDA-2(BAY 413) AT NPRN	08-02-2017	10:00	08-02-2017	16:00	ODB	ER-I	REPLACEMENT OF B PH CT AT NPRN	
198	400 KV New Siliguri-New Purnea # II	08-02-2017	09:00 Hrs	08-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	New Hardware fitting fixing	
199	400kv SgTPP-Baharampur #1	08-02-2017	07:00	08-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
200	220kV S'gram-WBSETCL Line #2	09-02-2017	08:30	09-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP	WBSETCL
201	220 KV SIDE OF 160 MVA ICT-II, BAY-210 at Baripada	09-02-2017	09:00	09-02-2017	18:00	OCB	ER-II/Odisha	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	
202	765kV Sundargarh Line-2 & ICT#1 TIE Bay (705) at Angul	09-02-2017	09:00	09-02-2017	17:00	ODB	ER-II/Odisha	AMP WORK	NLDC
203	Tie Bay-702 of 765KV B/R-I & 765KV ICT-I at Sundergarh	09-02-2017	08:00	13-02-2017	18:00	OCB	ER-II/Odisha	REFURBISHMENT OF 765KV CB FOR DCRM PROBLEM(CONSTRUCTIONAL DEFECT)	
204	Gajuwaka-II Main Bay (413) at Jeypore	09-02-2017	09:30:00	09-02-2017	17:30:00	ODB	ER-II/Odisha	For AMP works	NLDC
205	400KV Baripada-BR Tie Bay at Keonjhar	09-02-2017	09:00	09-02-2017	18:00	ODB	ER-II/Odisha	For AMP Works	
206	50 MVAR Bus Reactor Main Bay (Bay No.- 422) at Rourkela	09-02-2017	09:00	09-02-2017	14:00	ODB	ER-II/Odisha	Overhauling of Air Compressor of 42252 CB.	
207	220 KV MAIN BUS-1 AT PURNEA	09-02-2017	09:00	09-02-2017	17:00	ODB	ER-I	AMP WORK of 220 KV BUS -1 . NO POWER INTERRUPTION	
208	765/400 KV ICT-I at New Ranchi S/S	09-02-2017	09:00	11-02-2017	18:00	ODB	ER-I	RTV COATING OF TRENCH MAKE BUSHING RECOMMENDED BY MANUFACTURER DUE TO DESIGN DEFICIENCY	NLDC
209	400 KV LAKHISARAI - BSF -. I	09-02-2017	09:00	09-02-2017	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR WITH POLYMER.	
210	132 KV BANKA - SABAOUR CKT-I	09-02-2017	11:00	09-02-2017	14:00	ODB	ER-I	AMP WORK	BIHAR
211	Main Bay OF Bus Reactor AT LAKHISARAI	09-02-2017	10:00	09-02-2017	14:00	ODB	ER-I	AMP WORK	
212	MAIN BAY OF 400KV BSF-SASARAM-2(409 BAY) AT BSF	09-02-2017	10:00	16-02-2017	18:00	OCB	ER-I	OVERHAULING OF PNEUMATIC DRIVE MECHANISM OF CKT BREAKER	
213	Tie bay of ICT-1 & Future Daltonganj Line CWD60-Q50 AT SSRM	09-02-2017	10:00	09-02-2017	18:00	ODB	ER-I	AMP WORK	
214	TIE BAY OF 400KV NPRN-MALDA-2(BAY 414) AT NPRN	09-02-2017	10:00	09-02-2017	16:00	ODB	ER-I	REPLACEMENT OF R & Y PH CT AT NPRN	
215	220kV NSLG-SLG Ckt-I	09-02-2017	9.00 hrs	09-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Relay retrofitting / AMP	
216	400kV NSLG-Tala Ckt-3	09-02-2017	07.00 hrs	09-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	NLDC
217	400 KV New Siliguri-New Purnea # II	09-02-2017	09:00 Hrs	09-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	New Hardware fitting fixing	
218	125MVAR Bus Reactor-1 at Malithon	09-02-2017	09:30	11-02-2017	17:30	OCB	ER-II/ KOLKATA	Leakage arresting work	
219	220KV SLG-NSLG-I	09-02-2017	9000	09-02-2017	16:00 Hrs	ODB	ER-II/ KOLKATA	AMP WORK & ISOLATOR REMOTE OPERATION CHECKING FROM NTAMC	

220	400kv SgTPP-Baharampur #2	09-02-2017	07:00	09-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
221	400KV 315MVA ICT#1 MAIN BAY (403) AT BARIPADA	10-02-2017	09:00	10-02-2017	18:00	ODB	ER-II/Odisha	AMP OF MAIN BAY	
222	765KV Angul-Sundargarh Line-2 Main Bay (706) at Angul	10-02-2017	09:00	10-02-2017	17:00	ODB	ER-II/Odisha	AMP WORK	NLDC
223	Gajuwaka-I Main Bay(412) at Jeypore	10-02-2017	09:30:00	10-02-2017	17:30:00	ODB	ER-II/Odisha	For AMP works	NLDC
224	200 MVA ICT-2 AT LAKHISARAI	10-02-2017	08:00	14-02-2017	18:00	ODB	ER-I	CONSTRUCTION OF FIREWALL	BIHAR
225	400 KV LAKHISARAI - BSF -. 2	10-02-2017	09:00	10-02-2017	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR WITH POLYMER.	
226	132 KV BANKA - SABAOURL CKT-2	10-02-2017	11:00	10-02-2017	14:00	ODB	ER-I	AMP WORK	BIHAR
227	400 KV GAYA-MAITHON-II & 400 KV GAYA-KODERMA-I	10-02-2017	09:00	11-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	
228	400KV JAMSHEDPUR-MEJIA	10-02-2017	09:30	10-02-2017	17:30	ODB	ER-I	AMP work	
229	400 KV BUS-I (Muzaffarpur S/S)	10-02-2017	10:00	11-02-2017	16:00	ODB	ER-I	AMP	
230	TIE BAY OF 400KV NPRN-MALDA-2(BAY 414) AT NPRN	10-02-2017	10:00	10-02-2017	16:00	ODB	ER-I	REPLACEMENT OF B PH CT AT NPRN	
231	Tala-2 L/R at New Siliguri	10-02-2017	07.00 hrs	10-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	CSD Commissioning / Tan Delta in Variable Frequency	
232	220KV Siliguri-Kishanganj # I	10-02-2017	09:00 Hrs	10-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	Loose span rectification	
233	220 KV ICT#2 incommer	10-02-2017	11:00	10-02-2017	12:00	ODB	ER-II/ KOLKATA	Final commissioning of CB	
234	220KV SLG-NSLG-II	10-02-2017	9000	10-02-2017	16:00 Hrs	ODB	ER-II/ KOLKATA	AMP WORK & ISOLATOR REMOTE OPERATION CHECKING FROM NTAMC	
235	315 MVA ICT-II at Subhasgram	11-02-2017	08:30	11-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP	WBSETCL
236	400KV KHARAGPUR MAIN BAY (404) AT BARIPADA	11-02-2017	09:00	11-02-2017	18:00	ODB	ER-II/Odisha	AMP OF MAIN BAY	
237	400KV 125 MVAR Bus Reactor - 2 Main bay, Bay 416 AT SSRM	11-02-2017	10:00	11-02-2017	18:00	ODB	ER-I	AMP WORK	
238	Bangaigaon-III L/R at New Siliguri	11-02-2017	07.00 hrs	11-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Tan Delta in Variable Frequency	
239	220KV Siliguri-Kishanganj # II	11-02-2017	09:00 Hrs	11-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	Loose span rectification	
240	400kv SgTPP-Subhasgram line and line Reactor	11-02-2017	07:00	11-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
241	400kv Rengali- Indravati line at Bolangir	12-02-2017	07.00	14-02-2017	18.00	ODB	ER-II/Odisha	For insulator replacement works for major crossing for 400KV Rengali-Indavati lne under Bolangir TLO	
242	125 MVAR Bus Reactor-I at New Siliguri	12-02-2017	07.00 hrs	12-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Tan Delta in Variable Frequency	
243	160 MVA ICT-II (BHEL MAKE) at Birpara	12-02-2017	07:00 Hrs	12-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	AMP of the ICT,220 KV Main Bus -II conductor Replacement. During the said S/D period 220 KV BRP- NSLG- I is proposed to be charged through 220 KV TBC .	WBSETCL
244	220 KV BRP- NSLG-II	12-02-2017	07:00 Hrs	12-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	AMP of the Bay,220 KV Main Bus -II conductor Replacement. During the said S/D period 220 KV BRP- NSLG- I is proposed to be charged through 220 KV TBC .	
245	220kv S'gram-KLC Line	13-02-2017	08:30	13-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP	WBSETCL
246	765kV, 3x100MVAR Bus Reactor-1 at Angul	13-02-2017	09:00	13-02-2017	17:00	ODB	ER-II/Odisha	AMP WORK	NLDC
247	765/400 KV ICT-II at New Ranchi S/S	13-02-2017	09:00	15-02-2017	18:00	ODB	ER-I	RTV COATING OF TRENCH MAKE BUSHING RECOMMENDED BY MANUFACTURER DUE TO DESIGN DEFICIENCY	NLDC
248	400 KV CHANDWA-GAYA CKT-1	13-02-2017	09:00	14-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
249	765/400 kv ICT-III AT GAYA	13-02-2017	10:00	13-02-2017	18:00	ODB	ER-I	AMP WORK	NLDC
250	315 MVA ICT-II AT PATNA	13-02-2017	10:00	13-02-2017	18:00	ODB	ER-I	AMP work	BIHAR
251	50MVAR B/R-1 AT JAMSHEDPUR	13-02-2017	09:30	13-02-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK	
252	400 KV BUS-I (Muzaffarpur S/S)	13-02-2017	10:00	13-02-2017	16:00	ODB	ER-I	AMP	
253	80MVAR B/R MAIN BAY AT RANCHI	13-02-2017	10:00	13-02-2017	17:30	ODB	ER-I	AMP work	
254	125 MVAR Bus Reactor-II at New Siliguri	13-02-2017	07.00 hrs	13-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Tan Delta in Variable Frequency	
255	160 MVA ICT-I (ALSTOM Make) at Birpara.	13-02-2017	07:00 Hrs	13-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	220 KV Main Bus -II conductor Replacement. During the above S/D period 220 KV BRP- NSLG-II and 220 KV BRP- CHP-II will be alternately charged through TBC as per requirement.	WBSETCL
256	220 KV BRP- NSLG-I	13-02-2017	07:00 Hrs	13-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	AMP of the Bay, 220 KV Main Bus -II Conductor Replacement.During the above S/D period 220 KV BRP- NSLG-II and 220 KV BRP- CHP-II will be alternately charged through TBC as per requirement.	
257	220KV Dalkhola-Kishanganj # I	13-02-2017	09:00 Hrs	13-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	Loose span rectification & Bay AMP work	
258	220 KV BUS-II with Bus Coupler	13-02-2017	09:00	13-02-2017	14:00	ODB	ER-II/ KOLKATA	Jumper Change	
259	160 MVA ICT-I at Siliguri	13-02-2017	9000	13-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	NIFS Valve replacement work	WBSETCL
260	220kv S'gram-Newtown Line	14-02-2017	08:30	14-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP & LA Replacement	WBSETCL
261	400KV Angul-GMR Line-1 Main Bay (427) at Angul	14-02-2017	09:00	14-02-2017	15:00	ODB	ER-II/Odisha	AMP WORK	
262	Main Bay-707 of 765KV Sundergarh-Angul LineIII at Sundergarh	14-02-2017	08:00	17-02-2017	18:00	OCB	ER-II/Odisha	REFURBISHMENT OF 765KV CB FOR DCRM PROBLEM(CONSTRUCTIONAL DEFECT)	

263	Indravati Line Main Bay(410) at Jeypore	14-02-2017	09:30:00	14-02-2017	17:30:00	ODB	ER-II/Odisha	For AMP works	
264	400KV RENGALI MAINBAY (403) at Indravati	14-02-2017	09:00	14-02-2017	18:00	ODB	ER-II/Odisha	AMP work	
265	400 KV BSF - BALIA -. I	14-02-2017	09:00	15-02-2017	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
266	400 KV GAYA-MAITHON-I & 400 KV GAYA-KODERMA-II	14-02-2017	09:00	15-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	
267	765KV BR-I AT GAYA	14-02-2017	10:00	14-02-2017	18:00	ODB	ER-I	AMP WORK	NLDC
268	400 KV TIE BAY OF ICT-1 & 400KV CHAIBASA-JSR Ckt-1 AT CHAIBASA	14-02-2017	09:00	14-02-2017	17:00	ODB	ER-I	AMP WORK	
269	MAIN BAY OF 400 KV RANCHI-Maithan RB-II AT RANCHI	14-02-2017	10:00	14-02-2017	17:30	ODB	ER-I	AMP Work	
270	MAIN BAY OF 400 KV PATNA-BALLIA-II AT PATNA	14-02-2017	10:00	14-02-2017	18:00	ODB	ER-I	AMP work	
271	315MVA ICT#1 at New Siliguri	14-02-2017	07.00 hrs	14-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Tan Delta in Variable Frequency / 220kv Bay AMP	WBSETCL
272	220 KV BRP- CHP-I and II	14-02-2017	07:00 Hrs	14-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	Main Bus -II Conductor Replacement	NLDC
273	220KV Dalkhola-Kishanganj # II	14-02-2017	09:00 Hrs	14-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	Loose span rectification & Bay AMP work	
274	125MVAR Bus Reactor-2 at Maithon	14-02-2017	09:30	14-02-2017	17:30	ODB	ER-II/ KOLKATA	Leakage arresting work	
275	400kv SgTPP-Farakka line	14-02-2017	07:00	14-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
276	400KV Keonjhar Line at Baripada	15-02-2017	09:00	17-02-2017	18:00	OCB	ER-II/Odisha	Main 2 Relay Replacement work	
277	400KV GMR Line-2 & Jindal Line-1 Tie Bay (429) at Angul	15-02-2017	09:00	15-02-2017	15:00	ODB	ER-II/Odisha	AMP WORK	
278	400 KV CHANDWA-GAYA CKT-2	15-02-2017	09:00	16-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
279	765 KV SASARAM-FATEHPUR LINE	15-02-2017	10:00	15-02-2017	18:00	ODB	ER-I	FOR MODIFICATION FROM QUAD CONDUCTOR ARRANGEMENT TO TWIN CONDUCTOR ARRANGEMENT OF JUMPER	NLDC
280	400KV KAHALGAON BARH - 1 AND 2	15-02-2017	09:00	17-02-2017	18:00	OCB	ER-I	FOR POWER LINE CROSSING OF EXISTING 400 KV KAHALGAON - MAITHAN D/C LINE, 400 KV FARAKKA - KAHALGAON LINE(CKT.1,2, 3 & 4) AND 400 KV KHLG - BARH -1 & 2 BY CONSTRUCTION OF NEW LINE FOR SHIFTING OF 400KV KAHALGAON - BANKA LINE UNDER BUS SPLIT SCHEME AT NTPC SWITCHYARD, KAHALGAON.	NLDC
281	765KV BR - II AT GAYA	15-02-2017	10:00	15-02-2017	18:00	ODB	ER-I	AMP WORK	NLDC
282	315MVA ICT-1 AT JAMSHEDPUR	15-02-2017	09:30	15-02-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK	Jharkhand
283	220KV BUS-2 AT NPRN	15-02-2017	10:00	15-02-2017	18:00	ODB	ER-I	AMP WORK	
284	TIE BAY OF 80MVAR BR & Future Line AT RANCHI	15-02-2017	10:00	15-02-2017	18:00	ODB	ER-I	AMP Work	
285	400 KV Bus Reactor # 1	15-02-2017	09:30hrs	15-02-2017	17:30 hrs	ODB	KAHALGAON	CT replacement	
286	220kv Bus-I	15-02-2017	07.00 hrs	15-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Bus isolator hot spot rectification / CVT replacement	
287	400KV NSLG-Rangpo Ckt-1	15-02-2017	07.00 hrs	16-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	
288	315MVA ICT#2 at New Siliguri	15-02-2017	07.00 hrs	15-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Tan Delta in Variable Frequency / 220kv Bay AMP	WBSETCL
289	400kv NSLG-Rangpo Ckt-I	15-02-2017	9.00 hrs	16-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Sag adjustment	
290	400KV Malda-New purnea # I	15-02-2017	09:00 Hrs	15-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	New Hardware fitting fixing	NLDC
291	160 MVA ICT-II at Siliguri	15-02-2017	9000	15-02-2017	16:00 Hrs	ODB	ER-II/ KOLKATA	ICT-II & BAY AMP WORK	WBSETCL
292	SgTPP:400kv Main Bus#1	15-02-2017	07:00	15-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
293	315 MVA ICT-III at Subhasgram	16-02-2017	08:30	16-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP & Overcurrent Relay Relay retrofit	WBSETCL
294	400KV Angul-GMR Line-2 Main Bay (430) at Angul	16-02-2017	09:00	16-02-2017	15:00	ODB	ER-II/Odisha	AMP WORK	
295	765KV Sundergarh-Dharamjaygarh Line#I at Sundergarh	16-02-2017	08:00	16-02-2017	18:00	ODB	ER-II/Odisha	Polymer anchoring in Yphase Line Isolator	NLDC
296	Gazuwaka-I FSC	16-02-2017	09:30:00	16-02-2017	17:30:00	ODB	ER-II/Odisha	For AMP works	NLDC
297	125 Mvar BUS RAEACTOR MAIN BAY (410) at Indravati	16-02-2017	09:00	16-02-2017	18:00	ODB	ER-II/Odisha	AMP work	
298	400kv Bus-I at Rengali	16-02-2017	09.00Hrs.	16-02-2017	17.00Hrs.	ODB	ER-II/Odisha	For erection of Beam structure of New Bay extension work at Rengali.	
299	80 MVAR Bus Reactor AT LAKHISARAI	16-02-2017	08:00	19-02-2017	18:00	ODB	ER-I	CONSTRUCTION OF FIREWALL	
300	765KV B/R -1 AT NEW RANCHI	16-02-2017	08:00	18-02-2017	18:00	ODB	ER-I	RTV COATING OF TRENCH MAKE BUSHING RECOMMENDED BY MANUFACTURER DUE TO DESIGN DEFICIENCY	NLDC
301	400 KV BSF - BALIA -. 2	16-02-2017	09:00	17-02-2017	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
302	220KV BUS-1 AT RAMCHANDRAPUR(JUSNL)	16-02-2017	09:30	16-02-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK	
303	400 KV TIE BAY OF ICT-2 & 400KV CBSA- RKL Ckt-1 AT CHAIBASA	16-02-2017	09:00	16-02-2017	17:00	ODB	ER-I	AMP WORK	
304	TIE BAY OF 400 KV PATNA-BARH-I AND 400 KV PATNA-BALLIA-II AT PATNA	16-02-2017	10:00	16-02-2017	17:30	ODB	ER-I	AMP work	
305	400 KV Fkk - Behrampore line	16-02-2017	09:30hrs	17-02-2017	17:30 hrs	ODB	FARAKKA	Relay and Breaker testing.	
306	400KV Malda-New purnea # I	16-02-2017	09:00 Hrs	16-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	New Hardware fitting fixing	NLDC
307	765kv Bus Reactor-1 Main Bay (712) at Angul	17-02-2017	09:00	17-02-2017	17:00	ODB	ER-II/Odisha	AMP WORK	NLDC
308	765KV Sundergarh-Dharamjaygarh Line#III at Sundergarh	17-02-2017	08:00	17-02-2017	18:00	ODB	ER-II/Odisha	Polymer anchoring in Yphase Line Isolator	NLDC

309	ICT-I Main Bay(407) at Jeypore	17-02-2017	09:30:00	17-02-2017	17:30:00	ODB	ER-II/Odisha	For AMP works	OPTCL
310	220KV BUS-2 AT RAMCHANDRAPUR(JUSNL)	17-02-2017	09:30	17-02-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK	
311	TIE BAY OF 400KV BSF-SSRM-2 & BALIA-1(408 BAY) AT BSF	17-02-2017	10:00	24-02-2017	18:00	OCB	ER-I	OVERHAULING OF PNEUMATIC DRIVE MECHANISM OF CKT BREAKER	
312	220KV Bus-II	17-02-2017	07.00 hrs	17-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Bus isolator hot spot rectification	
313	400KV NSLG-Rangpo Ckt-2	17-02-2017	07.00 hrs	18-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	
314	400kv NSLG-Rangpo Ckt-II	17-02-2017	9.00 hrs	18-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Sag adjustment	
315	400KV Malda-New purnea # II	17-02-2017	09:00 Hrs	17-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	New Hardware fitting fixing	NLDC
316	400kv D/C Malda-Farakka Line-CKT-I	17-02-2017	9000	17-02-2017	1600	ODB	ER-II/ KOLKATA	To attend Punch point of M/s Sterlite	NLDC
317	400 KV (Quad) Kishanganj-New Purnea # II	17-02-2017	09:00	27-02-2017	17:00	ODB	POWERLINK	For changing 160KN Porcelain Insulator Strings by 160KN Polymer Insulator Strings at 54 Nos Tension/Angle towers between Tower no 300 Kishanganj (BR) and Purnea Tower no 449 Section in Ckt-2.	
318	SgTPP:400kv Main Bus#2	17-02-2017	07:00	17-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
319	220 KV BUS # 1	18-02-2017	08:30	18-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP	
320	Main Bay-715 of 765KV Sundergarh-Angul Line#II at Sundergarh	18-02-2017	08:00	22-02-2017	18:00	OCB	ER-II/Odisha	REFURBISHMENT OF 765KV CB FOR DCRM PROBLEM(CONSTRUCTIONAL DEFECT)	
321	400kv Bus-II at Rengali	18-02-2017	09.00Hrs.	18-02-2017	17.00Hrs.	ODB	ER-II/Odisha	For erection of Beam structure of New Bay extension work at Rengali.	
322	220KV TRANSFER BUS AT RAMCHANDRAPUR (JUSNL)	18-02-2017	09:30	18-02-2017	17:30	ODB	ER-I	BAY CONSTRUCTION WORK	Jharkhand
323	MAIN BAY OF 400 KV PATNA-BARH-I AT PATNA	18-02-2017	10:00	18-02-2017	18:00	ODB	ER-I	AMP work	
324	400KV Malda-New purnea # II	18-02-2017	09:00 Hrs	18-02-2017	17:00 Hrs	ODB	ER-II/ KOLKATA	New Hardware fitting fixing	NLDC
325	400kv D/C Malda-Farakka Line-CKT-I	18-02-2017	9000	18-02-2017	1600	ODB	ER-II/ KOLKATA	To attend Punch point of M/s Sterlite	NLDC
326	400 KV Maithon-Meja	18-02-2017	09:00	18-02-2017	17:00	ODB	ER-II/ KOLKATA	For insulator replacement work.	DVC
327	315MVA ICT# IV and 400 KV Haldia Line #1	20-02-2017	08:30	20-02-2017	17:00	ODB	ER-II/ KOLKATA	Protection checking of ICT#4 , Haldia Lin #1 and ICT#4 S/d is required	WBSETCL
328	765kV Line Reacto-1 Bay (706R) at Angul	20-02-2017	09:00	20-02-2017	17:00	ODB	ER-II/Odisha	AMP WORK	NLDC
329	400 kv Bus-I at Jeypore	20-02-2017	09:30:00	20-02-2017	13:30:00	ODB	ER-II/Odisha	For Relay Testing after Retrofitting of BusBar Protection System	
330	400 kV Bus-II at Jeypore	20-02-2017	14:00:00	20-02-2017	18:00:00	ODB	ER-II/Odisha	For Relay Testing after Retrofitting of BusBar Protection System	
331	400KV UHIEP-INDRAVATI MAIN BAY (412) at Indravati	20-02-2017	09:00	20-02-2017	18:00	ODB	ER-II/Odisha	AMP work (During this S/D period there will be no power flow between PG-UIHEP line due to non availability of PG-UIHEP Tie Bay CB)	OPTCL
332	400 kV LAKHISARAI-KHG CKT-1	20-02-2017	08:00	20-02-2017	08:10	ODB	ER-I	FOR TAKING L/R OUT OF SERVICE	
333	50 MVAR L/R OF 400 kV LKR-KHG Line-1 AT LAKHISARAI	20-02-2017	08:00	23-02-2017	18:00	OCB	ER-I	CONSTRUCTION OF FIREWALL	
334	160 MVA ICT-1 AT PURNEA	20-02-2017	10:00	20-02-2017	17:00	ODB	ER-I	For GIS Construction work	BIHAR
335	765KV L/R OF 765 KV NEW RANCHI DHARAMJAYGARH -1 AT AT NEW RANCHI	20-02-2017	08:00	22-02-2017	18:00	ODB	ER-I	RTV COATING OF TRENCH MAKE BUSHING RECOMMENDED BY MANUFACTURER DUE TO DESIGN DEFICIENCY	NLDC
336	765 kV NRNC-DMG CKT-1	20-02-2017	09:00	21-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS AND FOR REPLACEMENT OF QUAD DROPPER INTO TWIN FOR CVT/LA AT NRNC	NLDC
337	765KV GAYA-VARANASI-II LINE	20-02-2017	09:00	20-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
338	500 MVA ICT-III (Muzaffarpur S/S)	20-02-2017	10:00	24-02-2017	16:00	OCB	ER-I	For replacement of design defect of bushing during warranty period by manufacturer.	
339	220KV SIDE ICT-II BAY AT RANCHI	20-02-2017	10:00	20-02-2017	17:30	ODB	ER-I	AMP work	Jharkhand
340	211 bay (220 KV side ICT-2 Main bay) AT PATNA	20-02-2017	10:00	20-02-2017	15:00	ODB	ER-I	AMP work	
341	400KV NSLG-Purnea Ckt-1	20-02-2017	07.00 hrs	22-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	
342	400kv SgTPP-Parulia #1	20-02-2017	07:00	20-02-2017	16:00	ODB	WBSETCL	Winter Maintenance	
343	765/400kv, 3*500MVA ICT#4 at Angul	21-02-2017	09:00	21-02-2017	17:00	ODB	ER-II/Odisha	AMP WORK	NLDC
344	220 kV Bus-I at Jeypore	21-02-2017	09:30:00	21-02-2017	13:30:00	ODB	ER-II/Odisha	For Relay Testing after Retrofitting of BusBar Protection System	OPTCL
345	220 kV Bus-II at Jeypore	21-02-2017	14:00:00	21-02-2017	18:00:00	ODB	ER-II/Odisha	For Relay Testing after Retrofitting of BusBar Protection System	OPTCL
346	400 KV BUS-I AT BANKA	21-02-2017	09:30	21-02-2017	17:30	ODB	ER-I	AMP WORK	
347	80MVAR SIPAT L/R-II AT RANCHI	21-02-2017	10:00	21-02-2017	17:30	ODB	ER-I	AMP work	
348	400 KV /132KV ICT # 1	21-02-2017	09:30hrs	24-02-2017	17:30 hrs	OCB	KAHALGAON	CT replacement	
349	220 KV MLD-DLK LINE-II at Malda	21-02-2017	09:00	21-02-2017	14:00	ODB	ER-II/ KOLKATA	CT & CVT AMP	
350	220KV Bus Coupler Bay	22-02-2017	08:30	22-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP	

351	765kV Angul- Sundergarh Line-1	22-02-2017	07:00	23-02-2017	18:00	ODB	ER-II/Odisha	1. Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability&reliability. 2. Polymer anchoring at Angul and Sundargarh end. 3. Commissioning of NGR bypassing scheme at Angul and Sundargarh end.	NLDC
352	400KV JEYPORE-RENGALI TIE BAY (402) at Indravati	22-02-2017	09:00	22-02-2017	18:00	ODB	ER-II/Odisha	AMP work (During this S/D period, there will be no power flow in Indravati- Jeypore line due to non availability of PG-UIHEP Tie Bay CB)	
353	160 MVA ICT-3 AT PURNEA	22-02-2017	10:00	22-02-2017	17:00	ODB	ER-I	For GIS Construction work	BIHAR
354	765 kV NRNC-DMG CKT-2	22-02-2017	09:00	23-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS AND FOR REPLACEMENT OF QUAD DROPPER INTO TWIN FOR CVT/LA AT NRNC	NLDC
355	400 KV BUS-II AT BANKA	22-02-2017	09:30	22-02-2017	17:30	ODB	ER-I	AMP WORK	
356	220KV RANCHI-HATIA-I Line AT RANCHI	22-02-2017	10:00	22-02-2017	17:30	ODB	ER-I	AMP & Hot spot of 20689L	Jharkhand
357	Main Bay-701 of 765KV Bus Reactor-I at Sundergarh	23-02-2017	08:00	26-02-2017	18:00	OCB	ER-II/Odisha	REFURBISHMENT OF 765KV CB FOR DCRM PROBLEM(CONSTRUCTIONAL DEFECT)	
358	400 kV LAKHISARAI-KHG CKT-1	23-02-2017	18:00	23-02-2017	18:10	ODB	ER-I	FOR TAKING L/R INTO SERVICE AT LKR	
359	765KV L/R OF 765 KV NEW RANCHI DHARAMJAYGARH -2 AT AT NEW RANCHI	23-02-2017	09:00	25-02-2017	18:00	ODB	ER-I	RTV COATING OF TRENCH MAKE BUSHING RECOMMENDED BY MANUFACTURER DUE TO DESIGN DEFICIENCY	NLDC
360	400KV FKK - KAHALGAON CKT. # I & II	23-02-2017	09:00	26-02-2017	18:00	OCB	ER-I	FOR POWER LINE CROSSING OF EXISTING 400 KV KAHALGAON - MAITHAN D/C LINE, 400 KV FARAKKA - KAHALGAON LINE(CKT.1,2, 3 & 4) AND 400 KV KHLG - BARH -1 & 2 BY CONSTRUCTION OF NEW LINE FOR SHIFTING OF 400KV KAHALGAON - BANKA LINE UNDER BUS SPLIT SCHEME AT NTPC SWITCHYARD, KAHALGAON.	
361	125 MVAR BUS-REACTOR-I AT PATNA	23-02-2017	10:00	23-02-2017	18:00	ODB	ER-I	AMP work	
362	400 KV MAIN BAY OF 80 MVAR BR-1 AT CHAIBASA	23-02-2017	09:00	23-02-2017	17:00	ODB	ER-I	FOR REPLACEMENT OF DEFECTIVE CSD CARD	
363	400 KV Fkk - Kahaigaon Line#3	23-02-2017	09:30hrs	24-02-2017	17:30 hrs	ODB	FARAKKA	Relay and Breaker testing.	
364	400KV NSLG-Purnea Ckt-2	23-02-2017	07.00 hrs	25-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	
365	400kv D/C Malda-Farakka Line-CKT-II	23-02-2017	9000	23-02-2017	1600	ODB	ER-II/ KOLKATA	To attend Punch point of M/s Sterlite	NLDC
366	765kV Angul -Sundergarh Line-2	24-02-2017	07:00	25-02-2017	18:00	ODB	ER-II/Odisha	1. Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability&reliability. 2. Polymer anchoring at Angul and Sundargarh end. 3. Commissioning of NGR bypassing scheme at Angul and Sundargarh end.	NLDC
367	63 MVAR Bus Reactor Tie (417) Bay at Jeypore	24-02-2017	09:30:00	24-02-2017	17:30:00	ODB	ER-II/Odisha	For AMP works	
368	400 kV LAKHISARAI-KHG CKT-2	24-02-2017	18:00	24-02-2017	18:10	ODB	ER-I	FOR TAKING L/R OUT OF SERVICE AT LKR	
369	400 KV Farakka- Kahaigaon 1 & 2	24-02-2017	08:00	24-02-2017	18:00	ODB	ER-II/ KOLKATA	Stringing between Loc. No. 5A/0 to 6/0 of LILO of 400 KV Rajarhat-Purnea D/c at Farakka .	
370	220 KV MLD-DLK LINE-I at Malda	24-02-2017	09:00	24-02-2017	14:00	ODB	ER-II/ KOLKATA	CT & CVT AMP	
371	400kv D/C Malda-Farakka Line-CKT-II	24-02-2017	9000	24-02-2017	1600	ODB	ER-II/ KOLKATA	To attend Punch point of M/s Sterlite	NLDC
372	400 KV Subhasgram- Sagardighi Line	24-02-2017	08:30	24-02-2017	17:00	ODB	ER-II/ KOLKATA	AMP	WBSETCL
373	400 KV BUS-II of NTPC Farakka	25-02-2017	09:00	26-02-2017	17:00	ODB	ER-II/ KOLKATA	Bus-I connection for newly constrcted 400 KV Farakka- Rajarhat bay and 400 KV Farakka- Purnea bay (under ERSS-V) & BUS Bar-I stability test .	
374	220KV SLG-Kishanganj Ckt-1	26-02-2017	07.00 hrs	26-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	
375	220 KV Farakka- Lalmatia TL	26-02-2017	08:00	26-02-2017	18:00	ODB	ER-II/ KOLKATA	Stringing between loc. No. 6/0 to 7/0 of LILO of 400 KV Rajarhat-Purnea D/c at Farakka.	
376	400 KV BUS-I of NTPC Farakka	27-02-2017	09:00	28-02-2017	17:00	ODB	ER-II/ KOLKATA	Bus-II connection for newly constrcted 400 KV Farakka- Rajarhat bay and 400 KV Farakka- Purnea bay (under ERSS-V)& BUS Bar-II stability test .	
377	132 KV Kh -Sabour Line	28-02-2017	09:30hrs	28-02-2017	17:30 hrs	ODB	KAHALGAON	PM works & Relay testing	
378	220KV SLG-Kishanganj Ckt-2	28-02-2017	07.00 hrs	28-02-2017	17.00 hrs	ODB	ER-II/ KOLKATA	Insulator replacement in crossings	
379	400 KV (Quad) Kishanganj-New Purnea # II	01-03-2017	09:00	10-03-2017	17:00	ODB	POWERLINK	For changing 160KN Porcelain Insulator Strings by 160KN Polymer Insulator Strings at 46 Nos Tension/Angle towers between Tower no 01 Siliguri(W.B.) and Bidhannagar(W.B.) Tower no 01 TO Tower no. 95 in Ckt-2.	

[illegible]

Maintenance Schedule of Thermal Generating Units of ER for February-2017

System	Station	Unit	Size (MW)	period		No. of Days	Reason
				From	To		
DVC	MTPS	5	210	02.02.17	15.02.17	15	Maintenance
	MTPS	7	500	25.02.17	06.03.17	10	Maintenance



Po- Bhaktinagar, Dist: Jalpaiguri, Pin: 734007

To,
The Member Secretary, ERPC, Kolkata.

Date 29.12.2016. The

SUB: Arrangement of electric shutdown of Birpara-Siliguri, 220 KV transmission line (crossing the Belakoba-Raninagar Jalpaiguri Railway Line at Railway chainage of 23/2-3 Km, Tower Location 178) to finalize the work of modification of this crossing.

Ref- Work of tower modification being performed by M/S Manish Roy & Co.

Sir,

With reference to aforesaid subject and matter the work of modification of one tower is to be done on priority basis. The supervision charges of approximately Rs 84 lakh towards this modification work has already been submitted and for this erection of modified tower the work of foundation of one tower along with procurement all required materials have been done, moreover the part erection possible without shutdown has also been done but the further work of erection of said tower can be performed only after availing electric shutdown because this to be erected directly under wire. All required man, materials, tools and plants have already been mobilized to the site of work and are waiting for the shutdown. The schedule of work planned during 4 day shutdown is as under-

Timing	Main Activity	Remarks
Day 1	Erection of tower above ground truss	All efforts shall be done to complete work before fourth day to minimize downtime.
Day 2	Erection of top portion of tower	
Day 3	Erection of the hardware fittings and insulators and ACSR cutting and laying	
Day 4	Wire stringing and final commissioning works	

Hence kindly sanction this **shutdown period in the first week of the February 2017** and issue the letter of sanction of the shutdown at the earliest please.

(P.K.Rai)

Dy.Chief Electrical Engineer/C/NJP,
Construction/ New Jalpaiguri

Copy to- AGM/PGCIL/Siliguri.

Annexure-C.2

Anticipated Power Supply Position for the month of
Feb-17

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
i)	NET MAX DEMAND	3900	2116
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	436	325
	- Central Sector	2322	1448
iii)	SURPLUS(+)/DEFICIT(-)	-1142	-343
2	JHARKHAND		
i)	NET MAX DEMAND	1150	730
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	310	315
	- Central Sector	630	272
iii)	SURPLUS(+)/DEFICIT(-)	-210	-143
3	DVC		
i)	NET MAX DEMAND (OWN)	2848	1595
ii)	NET POWER AVAILABILITY- Own Source	4667	2347
	- Central Sector	434	260
	Long term Bi-lateral (Export)	1300	874
iii)	SURPLUS(+)/DEFICIT(-)	953	137
4	ORISSA		
i)	NET MAX DEMAND	4000	2016
ii)	NET POWER AVAILABILITY- Own Source	3137	1639
	- Central Sector	1060	632
iii)	SURPLUS(+)/DEFICIT(-)	197	255
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAX DEMAND (OWN)	5150	2943
ii)	CESC's DRAWAL	0	0
iii)	TOTAL WBSEDCL's DEMAND	5150	2943
iv)	NET POWER AVAILABILITY- Own Source	3828	2176
	- Import from DPL	0	36
	- Central Sector	1604	834
v)	SURPLUS(+)/DEFICIT(-)	282	104
vi)	EXPORT (TO B'DESH & SIKKIM)	5	3
5.2	DPL		
i)	NET MAX DEMAND	250	195
ii)	NET POWER AVAILABILITY	250	231
iii)	SURPLUS(+)/DEFICIT(-)	0	36
5.3	CESC		
i)	NET MAX DEMAND	1615	630
ii)	NET POWER AVAILABILITY - OWN SOURCE	460	315
	FROM HEL	540	250
	FROM CPL/PCBL	40	15
	Import Requirement	575	50
iii)	TOTAL AVAILABILITY	1615	630
iv)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAX DEMAND	7015	3768
ii)	NET POWER AVAILABILITY- Own Source	4538	2722
	- Central Sector+Others	2719	1084
iii)	SURPLUS(+)/DEFICIT(-)	242	39
7	SIKKIM		
i)	NET MAX DEMAND	90	35
ii)	NET POWER AVAILABILITY- Own Source	3	2
	- Central Sector+Others	103	53
iii)	SURPLUS(+)/DEFICIT(-)	16	20
8	EASTERN REGION At 1.03 AS DIVERSITY FACTOR		
i)	NET MAX DEMAND	18450	10260
	Long term Bi-lateral by DVC	1300	874
	EXPORT BY WBSEDCL	5	3
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	20359	11100
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	605	-37

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)



प्लॉट नं.- 4, यूनिट - 41, निलाद्री विहार, चंद्रशेखरपुर - 751021,

दुरभाष : 0674 - 2720754

Plot. No. 4, Unit - 41, Niladri Vihar, Chandrasekharapur,
Bhubaneswar - 751021, Tel: 0674 - 2720754

Ref. No: ODP/BB/AM/TLM/

Date: 16.01.2017

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

Sub: Request for approval of deemed availability for the Insulator replacement works at NH/SH/ River/ Powerline/ Railway crossings in various transmission lines of Odisha in 129th OCC.

Dear Sir,

It may be mentioned here that during insulator de-capping, conductor is grounded and if such incident occurs in crossing span of other transmission line/ Railway line/ Road/ River, consequential effects are much higher. To minimize consequential effects in case of de-capping the above said crossing spans will be provided with puncture proof Composite Long Rod Polymer Insulator for which no incident of de-capping has been reported. POWERGRID, Odisha is planning to replace the conventional disc insulators with CLR Polymer insulators in some of the lines for trouble free operation and better performance. Insulator replacement work in the above said crossings in most of the transmission lines in Odisha have been completed except few lines. Further, replacement of Polymer Insulators Pilot strings with Glass Insulators is also proposed to prevent swing during high speed wind to avoid unwanted tripping. Tentative program for insulator replacement in some of the remaining lines have been scheduled in Jan-Feb'2017 as follows:

Sl. No.	Name of Line	Date	Time	Date	Time	Remarks
1	400KV Indravati-Rengali line	12.02.17	08:00	14.02.17	18:00	ODB
2	400KV Talcher-Angul line	22.01.17	08:00	22.01.17	17:00	ODB
3	400KV Talcher-Meramundali	23.01.17	08:00	23.01.17	17:00	ODB
4	400KV Angul-Meramundali-II	24.01.17	08:00	24.01.17	17:00	ODB
5	400KV Angul-Meramundali-I	25.01.17	08:00	28.01.17	18:00	ODB

It is requested that shutdowns proposed for the said lines in the 129th OCC may please be approved & deemed availability for the shutdowns may please be granted.

With best regards.

(Signature)
16/01/17
(A.K. Behera)

DGM (AM), Odisha

Copy to: GM (AM), Odisha - For kind information please