



Agenda for **135th OCC Meeting**

Date: 24.07.2017
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

Eastern Regional Power Committee

Agenda for 135th OCC Meeting to be held on 24th July, 2017 at ERPC, Kolkata

PART A

Item no. 1: Confirmation of minutes of 134th OCC meeting of ERPC held on 23.06.2017

The minutes of 134th OCC meeting were uploaded in ERPC website and circulated vide letter dated 11.07.2017 to all the constituents.

Members may confirm 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.

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

1. Unit-2 (195 MW) of Muzaffarpur Thermal Power Station Stage-II (2x195 MW) has been declared under Commercial Operation w.e.f. 00:00 Hrs of 01.07.2017
2. 50 MVA, 132/33kV Transformer-IV at Asansol first time charged at 10:37 hrs on 12.06.2017
3. 31.5 MVA, 132/33kV Transformer-III at Gangarampur first time charged at 09:05 hrs on 09.06.2017
4. 20 MVA, 132/33kV Transformer-III at Balurghat first time charged at 14:58 hrs on 24.06.2017
5. 50 MVA, 132/33kV Transformer-I at Old Bishnupur first time charged at 11:32 hrs on 29.06.2017

Constituents may update.

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.

SN	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	PSDF grant approved (in Rs.)	Amount drawn till date (in Rs.)	Status as updated in 134 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	10.05.15	10.05.17	162.5 Cr.	16.25 Cr + 8.91 Cr	Total contract awarded for Rs. 51.35 Cr

		Sub-stations in the State of Odisha in order to rectify protection related deficiencies.					
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. + 9.88 Cr.	1) Hardware supplied and installed. 2) SAT completed for pilot state 3) Protection database management software (PDMS) put in live w.e.f. 30.03.17. 4) Training on PDMS organised at Odisha, ERPC & Bihar.
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	64.22 crore	23.68 crore	Project is on going. Contract awarded for Rs.71.37 Cr till date.
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			1.39 Cr		MOP vide letter dated 16.05.17 has issued the sanction for grant of Rs. 1.39 Cr.
		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.			2.54 Cr		MOP has issued the sanction letter for PSDF grant.
12a	ERPC	Training for Power System Engineers					The proposal was examined by the Techno Economic sub group of PSDF and advised to submit revised proposal with consideration of views of the group.
12b		Training on Integration of Renewable Energy resources					The proposal was examined by the Techno Economic sub group of PSDF and advised to submit revised proposal only for training at NORD POOL Academy with consideration of views of the group.
12c		Training on Power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents					

In 35th ERPC meeting, CE-NPC, CEA informed that grant has been allotted to Powergrid for installation of STATCOM but no update on the progress have been received from Powergrid.

Powergrid informed that project has already been awarded and they will submit the details to PSDF Nodal Agency and NPC.

In 131st OCC, Powergrid informed that they will submit the details shortly.

In 134th OCC, it was informed that MoP has issued the letter for sanction of grant for Bandel islanding scheme and renovation & up-gradation of OHPC substations.

Respective constituents may update.

Item No. B.3: OPERATIONAL LOAD FLOW STUDY FOR OFF-PEAK PERIOD (WINTER LEAN PERIOD)

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

In 130th OCC, PRDC informed that they will submit the report by end of March, 2017.
The report is available at ERPC website (www.erp.gov.in)

Further OCC advised PRDC to carry out another load flow study in the first week of May, 2017 tentatively for 4th and 5th May, 2017 for 19:00 and 20:00 Hrs. Therefore, all utilities have to record data for four instances.

OCC advised all the constituents to note the date and timings for recording the data and send it to ERPC/PRDC.

In 133rd OCC, PRDC informed that load flow studies of Summer Peak Condition (4th and 5th May, 2017) for 19:00 and 20:00 hrs, they have received data from BSPTCL and CESC.

In 134th OCC, PRDC informed that as per the data received from ER constituents and ERLDC SCADA snapshot the demand of 20 Hrs of 4th May, 2017 is observed as more appropriate for Peak load flow analysis.

OCC advised PRDC to carry out Peak load flow studies with the above data.

Further, it was informed that the login ID and Password for access of PDMS has been issued to the respective members as nominated by the authorities.

OCC advised constituents to verify their respective data and give their feedback.

PRDC may update.

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

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

Members may note.

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

GMR, Vedanta, CESC, Chuzachen & NTPC (TSTPS) have submitted the healthiness certificate for the month of June, 2017.

JITPL, Powergrid (ER-II & Odisha) may submit the healthiness certificate for June 2017.

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

Item No. B.6: Furnishing of data for Merit Order Web Portal – CEA

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

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

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

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

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

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

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

Members may note.

Item No. B.7: Status of Islanding Schemes of Eastern Region

B.7.1. 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, WBDCL
3. Tata Power Islanding Scheme, Haldia
4. Chandrapura TPS Islanding Scheme, DVC
5. Farakka Islanding Scheme, NTPC

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

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

The healthiness certificate for Islanding Scheme for June, 2017 has been received from CTPS, DVC, NTPC, BkTPS, Tata Power and CESC.

JUSNL may submit the healthiness certificate for FSTPS Islanding Scheme.

B.7.2. Bandel Islanding Scheme, WBDCL

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

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

OCC advised WBDCL to award the contract at the earliest and update the status.

WBDCL may update the latest status.

Item No. B.8: Modification of Annexure B-5 of First time charging of new transmission elements format

As per directive received from CEA, letter No: CEA/PCD/104CLPTC/1415 dated 28/06/2017, for ensuring safe and secure operation of telecom equipment in vicinity of power line, PTCC (Power and telecommunication co-ordination committee) Route Approval (RA) is to be submitted by transmission licensee and others to ERLDC for charging of any new transmission elements.

In line to this, Annexure B5 (Format IIID) of first time charging documents has been revised to take care the above issue and updated in the website. CEA letter and updated Annexure B5 (Format IIID) are attached at **Annexure-B8**. All transmission licensee and others are requested to submit update Annexure B-5 for first time charging of any elements.

Members may note.

Item No. B.9: Deviation of generation by Jorethang HEP --ERLDC

For couple of weeks in the month of July'17, it has been observed that Jorethang HEP is bringing down their generation to zero for around 2-3hrs daily during early morning reportedly on account of silt problem. It has also been noticed that this silt cleaning activities is being carried regularly at a particular fixed time. As it is a routine activities during this rainy season, action is required to be taken for bidding in the market accordingly so as to reduce unwanted deviation (during silt cleaning period) in the system.

Members may discuss.

Item No. B.10: DSM charges due to transmission constraint –Teesta-III

Teesta-III vide mail dated 13th July 2017 informed that

- Teesta-III HEP is presently injecting its power in the Power Exchange (IEX). It is proposed that wherever there is any transmission constraint not attributable to the Generating Station, the transaction already scheduled on day ahead basis may be curtailed by NLDC/ERLDC. This would ensure that the Generating Company does not get unduly penalized under DSM. In this connection, two detailed letters dated 09.06.2017 and 11.07.2017 of TUL may please be considered.
- It is requested that as mentioned in the attached letters, TUL has already been penalised under DSM for transactions pertaining to 06.06.2017 and therefore, it has been requested that ERLDC may kindly rise the schedule for that day and also ensure that no penalty is levied under DSM.

Members may discuss.

Item No. B.11: Registering the Revised Installed Capacity of Chuzachen HEP as 110 MW.

Chuzachen vide mail dated 13th July 2017 informed that Chuzachen HEP - 110 MW (Installed Capacity) located in the East District of Sikkim is an operational project. The approval for 110 MW Chuzachen HEP was accorded by Energy & Power Department, Govt. of Sikkim (vide Letter. No. SPDC/228/2003-04/789, dated 21.05.2015) and MoEF&CC, Government of India (vide Letter.No.J-12011/18/2005-IA-I, dated 08.04.2015).

The installed capacity of Chuzachen HEP was increased from 99 MW to 110 MW during the implementation stage of the project after observing increase in river water availability for power generation. All civil components, hydro mechanical and Electro-mechanical equipments were designed and installed for 110MW (2X55MW) capacity with 10% continuous overloading. The project is in possession of all statutory approvals from Govt. departments, technical design documents, commissioning documents in support of the installed capacity of 110 MW.

A) Chuzachen HEP had already obtained the following necessary statutory and other approvals from concerned Authority in respect of 110 MW installed capacity:

- i) Environmental clearance by MOEF & climate change for revised capacity of 110MW dtd. 8th April 2015.
- ii) Approval of revised capacity by Energy and Power Dept., Sikkim dtd. 21st May 2015.
- iii) Consent to operate for Air by State Pollution Control Board, Govt. of Sikkim for 110MW dtd. 2nd May 2017.
- iv) Consent to operate for Water by State Pollution Control Board, Govt. of Sikkim for 110MW dtd. 2nd May 2017.
- v) Consent on revised capacity/cost from CEA for 110MW dtd. 7th December 2016.

B) The following reports, procedures adopted during commissioning and generation would clearly demonstrate installed capacity in support of 110MW (with 10% OL):

- i) As per commissioning test report dtd. 21-04-2013, the unit was load tested and load rejection test was carried out for rated load of 55MW and 110% load i.e. 60.54MW and same was successfully completed. Accordingly, Unit Commissioning Certificate has been issued to the EPC Contractor i.e. Alstom India Ltd for 110MW Installed capacity.
- ii) Project COD had been declared w.e.f. 18-05-2013 for 110MW and intimated to ERLDC by letter dtd 15-05-2013. The same was duly received/acknowledged by PGCIL-ERLDC.
- iii) Clearance for first time synchronization permission by POSOCO for 2X55MW vide letter message dtd. 19-04-2013.

In view of the above, chuzachen requested OCC forum to review the above and kindly update

the actual installed capacity of Chuzachen Hydro Electric Project, Sikkim from 99 MW to 110 MW (2X55MW) in all your records.

Members may discuss.

Item No. B.12: Implementation of Automatic Demand Management Scheme (ADMS)

In special PRM held on 7th June, 2016, Chemtrols provided the following status of DO implementation:

Constituent	Target by June end	Actual
Bihar	50	67
DVC	12	17
WBSETCL	10	65**
Jharkhand	2	2

(**As per the WB instruction, In all RTUs of WB the DO cable has been terminated in the C&R Panel TBs. WBSETCL testing Team to further extend the connections to the trip relays)

In 133rd OCC, ERLDC informed that DVC has submitted the scheme.

WBSETCL informed that they have implemented the scheme in some sub-stations and they have submitted the details to ERPC/ERLDC.

Bihar informed that they have not yet decided the feeders.

OCC advised Bihar and JUSNL to send the scheme details to ERLDC.

Constituents were advised to share the details of the scheme implemented by them such as logic considered for shedding, feeders along with their voltage levels covered in the scheme and quantum of relief expected from each feeder, communication medium used, device used at sub-station level, whether there is provision for rotational selection of feeders etc.

Subsequently, BSPTCL has submitted the scheme.

*JUSNL vide mail dated 12th July 2017 submitted the scheme placed in **Annexure-B.12**.*

Constituents may note and update.

Item No. B.13: Concerned members may update the latest status.

B.13.1. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In 134th OCC, OPTCL updated the status as follows:

Activities	Nos	Status as updated in 35 th TCC	Status as updated in 134 th OCC	Remarks
Tower Foundation	64	64	64	Completed
Tower Erection	64	59	64	Completed
Stringing /OPGW Cabling & Testing	20.5 Km	9 km completed	16 km completed	
Sub station Bay	2	Bay construction completed	Testing going on	

OPTCL informed that the construction of the dedicated line would be completed by 15th July, 2017 in all respects.

Further, GRIDCO/OPTCL added that 7 No. of towers of 400KV Vedanta-Meramundali D/C line have been severely damaged due to whirlwind and cyclonic storm on 15-06-2017 night between Location No.7-0 to 8-0. As a result, GRIDCO could not avail State share of power through the said line and is solely dependent on LILO connectivity to avail IPP power from M/s. Vedanta Limited.

In view of the above, GRIDCO/OPTCL requested that the disconnection of interim LILO connectivity scheduled on 01-07-2017 for M/s. Vedanta Ltd may please be deferred until the restoration work of Vedanta-Meramundali line and commencement of power supply to the State through this line.

After detailed deliberation, OCC agreed to extend the LILO connectivity till 15th July, 2017. It was also decided that the removal of LILO could be reviewed subject to the completion of dedicated line as per the latest schedule i.e. by 15th July, 2017.

Accordingly, a special meeting to review the removal of LILO connectivity was held at ERPC on 14th July 2017 and the minutes are available at ERPC website.

Members may discuss.

Special Protection Scheme (SPS) of Sterlite (VAL) –ERLDC

Sterlite has installed capacity of 4X600MW (2400MW) with smelter load of More than 1000MW grid-connected plant. In case of loss of smelter load or evacuation path units might trip due to mismatch of load and generation. Sterlite had already implemented SPS to minimize the impact of such major load generation mismatch on the grid. In an earlier OCC meeting VAL agreed to share their presently implemented SPS details. But thereafter, VAL did not submit anything to ERLDC/ERPC.

SLDC OPTCL and Vedanta may respond.

B.13.2. Enabling of 3-Phase Auto Reclose at 132 kV North Bengal and Sikkim areas to minimize element outages due to transient faults -- Powergrid

During rainy season In North Bengal and Sikkim area, high element outages observed of 132 KV level. Mainly from past experience it is observed that 90% of the fault is of Single Phase to Ground fault and transient in nature. However as per general practice 132 KV level CB's are of mechanically ganged and any single phase fault also causing tripping of all three phases.

To make system more dynamic it is prudent to go for, three phase auto reclosure for any single phase Fault in the 132 KV lines. Only by introduction of A/R facility line availability may be increased in the tune of 90% i.r.o present situations. POWERGRID proposed to implement the same however other constituents as well as ERLDC may give respective views. Upon concurrence detailed road map for Implementation will be given.

In 132nd OCC, Powergrid informed that in North Bengal and Sikkim area most of the time the 132 kV lines were tripping on transient fault and the system can be saved by implementing 3-phase auto-reclosure scheme.

OCC discussed the matter in detail and agreed in principle for implementation of 3-phase auto-reclosure scheme for 132 kV lines. Further, it was decided that the implementation would start with North Bengal and Sikkim area.

Further, OCC advised Powergrid to submit a report on the status of PLCC/telemetry, A/R facility etc. for both ends of each 132 kV lines of North Bengal and Sikkim area.

In 134th OCC, Powergrid informed that the 3-phase auto-reclosure scheme for 132kV Rangpo-Gantok line will be implemented by July 2017.

OCC advised Powergrid to submit a report on the status of PLCC/telemetry, A/R facility etc. for both ends of each 132 kV lines of North Bengal and Sikkim area.

Powergrid may update.

B.13.3. 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 work has been completed.
- Transformer package and Shunt reactor– have been awarded.

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

In 134th OCC, NTPC informed that the bus splitting will be implemented by December, 2018.

NTPC may update.

B.13.4. 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.

In 134th OCC, WBSEDCL informed that one testing report is awaited which will be received within a week, on receipt of report line will be commissioned.

WBSEDCL/Powergrid may update.

B.13.5. 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 130th 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 Oct, 2017.
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:	
a.	Pratapsasan(OPTCL)-Pandiabil(PG) 220 kV D/C line	Dec, 2017.

OPTCL may update.

B.13.6. 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) – Ramchandrapur (JUSNL) 220kV D/c	July, 2017
2.	Daltonganj 400/220/132kV S/s:	
a.	Daltonganj (POWERGRID) – Latehar 220kV D/c	By Dec, 2017.
b.	Daltonganj (POWERGRID) – Garhwa 220kV D/c	May, 2018
c.	Daltonganj (POWERGRID) – Daltonganj (JUSNL) 132kV D/c	Dec, 2018
d.	Daltonganj (POWERGRID) – Chatarpur/Lesliganj 132kV D/c	Matching with S/s
3.	Dhanbad 400/220 kV S/s: Awarded under TCB	
a.	Dhanbad – Dhanbad (Govindpur) (JUSNL) 220kV D/c	Matching with S/s

JUSNL may update.

B.13.7. 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>)	<i>Existing plan is to be revised due to ROW issues</i>
2.	2x500MVA, 400/220kV Rajarhat ---	
a.	Rajarhat-N. Town-3 (WBSETCL) 220 kV D/C line	Matching
b.	Rajarhat-N. Town-2 (WBSETCL) 220 kV D/C line	June, 2018
c.	Rajarhat- Barasat (WBSETCL) 220 kV D/C line	June, 2018

WBSETCL may update.

Item No. B.14: Restoration of PLCC system of important JUSNL ties

I) 220 KV Chandil –Santaldih line

In 130th OCC meeting, JUSNL intimated that PLCC for 220 kV Chandil-Santaldih line has been tested and commissioned successfully on 25.01.17.

WBPDCCL informed that the PLCC was activated but the auto-reclosure could not be put into service as the R-Ph pole of Circuit Breaker is not getting closed during auto-reclosure operation. The same is taken up with the OEM (i.e. ABB) and they will be rectifying the CB.

In 35th TCC, WBPDCCL informed that overhauling of the R-ph pole of CB will be done by 15th March 2017. Subsequently, auto-reclosure feature will be enabled.

In 132nd OCC, WBPDCCL informed that though the overhauling of the R-ph pole of CB was completed, the auto-reclosure could not be put into service as there was some problem in Main-2 relay of line. The same is taken up with the OEM (i.e. ABB).

WBPDCCL informed that the work will be completed by May, 2017.

In 133rd OCC, WBPDCCL informed that the work is getting delayed as they are not getting proper response from Schnider and GE, however the work will be completed within a week.

In 134th OCC, WBPDCCL informed that the work is getting delayed as they are not getting proper

response from Schnider and GE, however the work will be completed within a week.

II) 220 KV Ramchandrapur-Joda line

In 130th OCC meeting, OPTCL informed that PLCC panels at 220kV Joda end will be commissioned within a week. JUSNL informed that the Ramchandrapur end is ready in all respect for implementation of PLCC.

In 131th TCC, OPTCL informed that PLCC panels at 220kV Joda end will be commissioned by March 2017.

In 131st OCC, WBPDCCL informed that shutdown was proposed on 31st March, 2017 to complete the work.

In 132nd OCC, OPTCL informed that the PLCC panels have been commissioned and will be put in service after completion of testing.

In 133rd OCC, OPTCL informed that the panels will be commissioned by June, 2017.

In 134th OCC, OPTCL informed that the panels will be commissioned by June, 2017.

OCC advised OPTCL and WBPDCCL to take the issue seriously and implement the auto reclose scheme at the earliest as CERC may take some suo motu action against non-completion of said PLCC links.

JUSNL/WBPDCCL/OPTCL may update.

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.

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 (WBPDC)-	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 (WBPDC)	Completed on 25 th February, 2016
18) 400kV Bakreswar (WBPDC)	Completed on 26 th February, 2016
19) 765kV Gaya(PG)	Completed on 1 st November, 2016
20) 400kV Biharsharif(PG)	Completed on 3 rd November, 2016
21) 220kV Biharsharif(BSPTCL)	Completed on 3 rd November, 2016
22) 400kV Maithon (PG)	Completed on 18 th May, 2017
23) 132kV Gola (DVC)	Completed on 17 th May, 2017
24) 132kV Barhi (DVC)	Completed on 18 th May, 2017
25) 132kV Koderma (DVC)	Completed on 18 th May, 2017
26) 132kV Kumardhubi (DVC)	Completed on 19 th May, 2017
27) 132kV Ramkanali (DVC)	Completed on 19 th May, 2017
28) 220kV Ramchandrapur (JUSNL)	Completed on 1 st June, 2017
29) 400kV Jamshedpur (PG)	Completed on 1 st June, 2017
30) 132kV Patherdih (DVC)	Completed on 31 st May, 2017
31) 132kV Kalipahari (DVC)	Completed on 30 th May, 2017
32) 132kV Putki (DVC)	Completed on 31 st May, 2017
33) 132kV ASP (DVC)	Completed on 30 th May, 2017
34) 132kV Mosabani (DVC)	Completed on 2 nd June, 2017
35) 132kV Purulia (DVC)	Completed on 1 st June, 2017

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.

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

The proposed UFR audit schedule is placed below:

Sl No	Proposed Date	Substation/feeder inspected by the sub-group
1	Aug, 2017	220/132/33 KV Kalyaneswari of DVC
2		220/132/33 KV New Bishnupur of WBSETCL
3		132/33 KV Old Bishnupur of WBSETCL
4	Sep, 2017	BRS (Liluah S/Stn.) of CESC

Members may decide.

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.

Constituents may nominate.

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.

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

- All NTPC stations in Eastern Region
- Teesta, NHPC
- All OHPC generating units
- All CESC generating units
- Bandel TPS, WBPDC
- Kolaghat Generating station, WBPDC
- Bakreswar Generating station, WBPDC
- Sagardighi Thermal Power Project, WBPDC

Members may note and update the status.

Item No. B.19: 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.

Item No. B.20: 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.

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

For the month of June, 2017 data has been received from OPTCL, CESC, DVC, WBSETCL, BSPTCL.

JUSNL may submit.

Item No. B.21: Transfer capability determination by the states -- Agenda by NPC

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

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

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

SI No	State/Utility	TTC import(MW)	RM(MW)	ATC (Import) MW
1	BSPTCL	4395	91	4304
2	JUSNL	---	---	---
3	DVC	935	52	883
4	OPTCL	1000	72	928
5	WBSETCL	3660	300	3360
6	Sikkim	---	---	---

Members may update.

Item No. B.22: 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 130th OCC, Powergrid informed that the reactor will be commissioned by end of February, 2017.

In 131st OCC, Powergrid informed that the reactor commissioning was delayed due to some vibration issue and now it is expected to be commissioned by April, 2017.

In 132nd OCC, Powergrid informed that the reactor will be commissioned by end of May, 2017.

In 133rd OCC, Powergrid informed that the dispatch got delayed due to commercial issues and it will be dispatched by May, 2017 & commissioned by end of June, 2017.

In 134th OCC, Powergrid informed that the reactor is reached at site and will be commissioned by end of July, 2017 subject to availability of shutdown.

Powergrid may update.

b) 400kV Patna-Kishengunj D/C

Tower collapsed at Loc.51 in Kankai river on 26.07.2016 and three nos towers at Loc no 128F/0, 128 G/0 and 128E/0 in Ganga river on 01.09.2016.

In 134th OCC, Powergrid informed that line will be restored by 15th July, 2017.

OCC advised Powergrid to submit weekly progress to ERPC and ERLDC.

Powergrid may update.

c) 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 134th OCC, ENICL informed that line will be restored by 15th July, 2017.

OCC advised ENICL to submit weekly progress to ERPC and ERLDC.

ENICL may update.

d) 220 kV Waria – Bidhannagar-II

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

In 133rd OCC, DVC informed that the line will be restored by 15th June, 2017.

In 134th OCC, DVC informed that the line will be restored by 15th July, 2017.

DVC may update.

e) 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 133rd OCC, Powergrid informed that the reactor will be in service by second week of June, 2017.

In 134th OCC, Powergrid informed that the reactor will be in service within a week.

Powergrid may update.

Item No. B.23: Erection and commissioning of 02 nos. of 220 kV line bays at KBUNL

Presently 220 KV KBUNL- Samastipur (new) (D/C) & 220 KV KBUNL - Motipur (D/C) tr lines have only one 220 KV bays each at KBUNL end since long & due to this one circuit each from KBUNL to Samastipur (new) & KBUNL to Motipur remain unutilised.

Due to unavailability of these bays at KBUNL end, BSPTCL is facing difficulties for synchronising 220 KV line at KBUNL. This results in high voltage during off-peak hours. As observed in system study taking these circuits in loop at KBUNL will result in increment of 220 kV system voltage (which goes down to 206 kV during peak hours) at Darbhanga (New) by 3-4 kV. So keeping these lines in loop at KBUNL will enhance the reliability and stability of system.

So KBUNL (NTPC) may be instructed to complete the 02 nos. Of 220 kV line bays at KBUNL end at the earliest.

In 133rd OCC, Representative of KBUNL mentioned that contract, for execution of the said job, was awarded to M/S GET Power (Sister concern of M/S Techpro Systems Ltd.). However, due to worsening of financial condition, M/S GET failed to complete the work and left the work in between. KBUNL made all out efforts to get the vendor (M/S GET Power) on job but all its efforts met with little success.

He placed on record that, keeping in view of the fact that complete material for execution of the job was available at site, KBUNL had earlier requested BSPTCL to take up the job as BSPTCL has engaged various agencies for similar type of work. He also mentioned that BSPTCL had earlier agreed to take up the job on deposit basis.

He further mentioned that, KBUNL has started the process of termination of contract to M/S GET Power as well as for award of fresh contract for completion of remaining work. However, keeping in view the urgency of the work and also that awarding fresh contract and mobilization of resources may take some time, KBUNL representative again requested BSPTCL to take up the job on deposit basis.

BSPTCL representative informed that they will send some vendor/contractor for taking up the job.

BSPTCL vide mail dated 17th June 2017 informed that BSPTCL has tried but there other major works besides bay construction work. BSPTCL requested KBUNL to take up this work on its own in their own switchyard. Moreover, this bay construction will also remain helpful for KBUNL for evacuation of its generated power.

In 134th OCC, BSPTCL requested KBUNL to take up this work on its own in their own switchyard and complete the work at the earliest.

KBUNL vide mail intimated that they acknowledge BSPTCL's concerns in this regard and is looking forward to take-up the work on its own.

However, KBUNL reiterated its constraints that termination of contract to M/S GET Power as well as awarding fresh contract for remaining work is under progress and the same may take time. Expected date of completion will be communicated after award of the contract.

KBUNL and BSPTCL may update.

Item No. B.24: Replacement of old RTU in Eastern Region for reporting of RTU / SAS to back-up control centre

The matter for replacement of old RTU in Eastern Region for reporting to back up control centre has been discussed in a special project review meeting held on 14th February 2017 at ERPC & also on 35th TCC/ERPC meeting held on 24th / 25th February 2017, It was also mentioned that there would not be any service support for the old RTUs from POWERGRID after 15 years of operation period. It was accordingly advised to ERLDC to form a committee with POWERGRID as a nodal agency for assessment of such old RTUs vis-a-vis further action plan on replacement. It was also advised to submit a report in the next TCC/ERPC meeting.

The matter for replacement of old RTU in Eastern Region for reporting to back up control centre has been discussed again in 19th SCADA O&M meeting held at ERLDC, Kolkata on 07th April 2017, wherein nomination of nodal person name from OPTCL, WBSETCL, DVC, BSPTCL, JUSNL, POWERGRID ERTS-1, POWERGRID ERTS-2, ERLDC, MPL & Jorethang has been collected.

Nomination from NTPC all stations including Nabinagar, NHPC all stations, Dikchu, Teesta-III, Chuzachen, JITPL, GMR, Ind Bharat & APNRL are yet to be provided. ERLDC has already issued letter ref no: ERLDC / SCADA O&M / 2017/ dated 11.04.2017 for the same. It is requested to provide the nomination from these stations.

OCC requested all the respective members to nominate their representatives at the earliest.

In 133rd OCC, OCC advised NHPC to submit the nomination list at the earliest.

ERLDC informed that a meeting has been scheduled on 09th June 2017 to discuss the above matter and requested all the constituents to send their nominated members to attend the meeting.

In 134th OCC, ERLDC informed that the next meeting will be held in end of July 2017 and the report will be placed in August, 2017.

Members may update.

Item No. B.25: Failure of RTU data with the outage of ICTs of Patna and Biharshariff station --ERLDC

It has been observed on several occasions that with the tripping of all the ICTs at Patna and Biharshariff station, RTU stopped reporting to ERLDC, after restoring these ICTs, data again started reporting. It is to be appreciated that real time SCADA data should not be getting interrupted for any eventuality of the grid. The same was informed to POWERGRID several times but it is yet to be implemented and confirmed by them. Few incidents, when SCADA data stops reporting are mentioned below:

At Biharshariff:

Event 1: All three 400/220 kV ICTs tripped at 18:46:30 on 09th April, 2017

Event 2: All three 400/220 kV ICTs tripped at 13:25 hrs on 3rd March, 2017

At Patna:

Event 1: Both 400/220 kV ICTs tripped at 18:53 Hrs on 03.07.2017

SCADA data plot for these incidents are mentioned at **Annexure – B25**.

Members may discuss.

Item No. B.26: Shifting of communication links for PMUs reporting to ERLDC--ERLDC

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

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

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

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

Accordingly, ERLDC has sent the detailed requirement for shifting of communication link to POWERGRID ULDC on 14-07-2017. The same is attached at **Annexure – B.26**.

PGCIL may update.

Item No. B.27: 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.

134th OCC advised all the respective constituents to ensure the availability of telemetry data to ERLDC.

Members may update.

Frequent failure of JITPL data to ERLDC:

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

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

The same was informed to JITPL several times verbally and through a letter vide ref no: ERLDC/SL/2017-18/621 dated: 3rd May 2017 but it is yet to be diverted / provided.

In 134th OCC, JITPL representative was not available in the meeting.

ERLDC informed that SCADA data from JITPL is frequently failing and JITPL is not responding even with repeated persuasions.

OCC advised ERLDC to take suitable action against JITPL and stop entertainment of STOA application till SCADA data is restored.

ERLDC informed that they will be constrained to stop all STOA transactions with effective from 00:00 Hrs of 01st August, 2017, upon unavailability of SCADA data at ERLDC.

JITPL and ERLDC may update.

Item No. B.28: Installation of PMUs in Eastern Region under URTDSM project

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

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

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

*The updated status as furnished in 132nd OCC by Powergrid is given at **Annexure-B.28**.*

POWERGRID may update the status.

Item No. B.29: 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.29**.

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

Members may update.

Item No. B.30: 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.30**.

Members may update the latest status.

Item No. B.31: Time correction of SEMs in Eastern Region – Replacement of heavily drifted SEMs

The issue was discussed in 35th TCC/ERPC meetings and it was felt that the meters with severe drift greater than 10 min need to be replaced first and if replacement is done with Genus then readings are to be collected manually using Laptop till interfacing with AMR is completed.

35th ERPC advised Powergrid to replace the 10% of the heavily drifted SEMs with new Genus make meters and monitor the performance of the Genus meters. Powergrid should present this performance before constituents and subsequently the decision on replacement of the other time drifted meters will be taken up.

ERPC also advised Powergrid to place the list of 10% of the heavily drifted SEMs to be replaced with Genus make meters in next OCC meeting.

Subsequently, ERLDC has prepared a list of such SEMs.

In 133rd OCC, Powergrid informed that 22 meters were replaced except Purnea.

ERLDC informed that the performance of 22 newly installed meters are satisfactory and suggested that all other meters can be replaced.

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

*The list as shared by ERLDC is attached at **Annexure-B.31**.*

*In 134th OCC, Powergrid informed that SEM at Purnea has been replaced and the replacement of SEMs as per the **Annexure-B.31** will be completed within 2 months.*

OCC advised Powergrid to give the schedule for replacement of SEMs to ERPC and ERLDC.

Powergrid/ ERLDC may update.

Item No. B.32: Integration of Genus Make meter in AMR-- ERLDC

In Eastern Region, order for procurement of 965 no of SEM's was placed with M/s Genus Power. First Lot of the meters have already been delivered by Genus and 24 meters of Genus make meter has been installed in different substation in ER.

Issue of Integration of Genus make meters in AMR system was discussed in meeting held with PGCIL, ERLDC, M/s Genus, & M/s TCS on 02.03.17 at ERLDC. M/s TCS informed that they have done the AMR integration test with Genus meter and informed that communication with existing Genus meter for AMR integration couldn't be established. Moreover M/s TCS had informed that they will try the subsequent steps for communication with Genus meter and update ERLDC & PGCIL accordingly.

In 132nd OCC, Powergrid informed that as per their communication with M/s TCS, integration of Genus meters in AMR system is possible, but it will take some more time to establish the communication.

In 133rd OCC, Powergrid informed that it will take some more time and asserted it will be done by June, 2017.

In 134th OCC, Powergrid informed that TCS is able to read the Genus make meter data however there are some issues related to baud rate of communication. Testing is in progress at Subashgram. It is expected to be completed by July, 2017.

Powergrid may please update the status.

Item No. B.33: Accounting of Tertiary Loading Arrangement at PGCIL s/station in ER

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

At present State net drawl through PGCIL substation in ER is being computed considering meter installed at feeders after LV side of Transformer. Those sub stations where auxiliary requirement is met through tertiary, States net drawl need to be computed by adding drawl through feeders after LV side of Transformer and auxiliary consumption through tertiary.

In NR, WR & SR, auxiliary power through is already being accounted in states net drawl.

In order to account for the drawl through tertiary for Auxiliary consumption, PGCIL is requested to:

1. Provide list of substations in ER where auxiliary supply is met through tertiary.

2. Install SEM on 33 KV tertiary side of transformers used for auxiliary supply.

131st OCC advised Powergrid to submit the list of substations in ER where auxiliary supply is met through tertiary(both for 33 kV and 11kV level).

Powergrid agreed.

In 132nd OCC, Powergrid ER-I & ER-II submitted the list of substations.

OCC advised Powergrid-Odisha to submit the list at the earliest.

Further, OCC advised Powergrid to submit the details of all the SEMs connected to tertiary windings and also the SEM readings on regular basis to ERLDC and ERPC.

Details received from Powergrid Odisha are as follows:

S No	Substation	Transformer Tertiary Charged (Yes/No)	SEM Installed in transformer Tertiary (Yes/No)	SEM meter No.
1	765/400KV Angul	Yes	Yes	NP-5942A
2	400/220 KV Keonjhar	YES	YES	NP-7921A
3	400/220 KV Jeypore	YES	YES	NP5965A
4	400/220 KV Rengali	yes	YES	NP0629B
5	400/220 KV Pandiabili GIS	YES	YES	NP7462A
6	400/220/132 KV Baripada	Yes	Yes	NP-5909A
7	400KV Indravati	NA	NA	NA
8	765/400KV Sundergarh	NO	NO	NO
9	400/220 KV Bolangir	YES	YES	NP-7951A
10	400/220 KV Rourkela	NO	NO	NO

In 133rd OCC, Powergrid was advised to send the readings of SEMs connected to tertiary windings to ERLDC regularly for accounting purpose.

Further OCC decided that after getting the SEMs details of all tertiary loadings, ERPC/ERLDC will devise an mechanism for accounting of the tertiary loading arrangement.

In 134th OCC, ERLDC presented the list of substation wise SEM data received from Powergrid as follows:

List of PGCIL substation with Tertiary Loading in ER								
ER-I								
S. No	S/Station	Loc ID	Meter No	Make	CTR	PTR	Remarks	Data Receipt
1	Gaya(765)	EM-99	NP-7472-A	L&T	50	33000/110		No
2	Banka	ES-88	NP-7458-A	L&T	50	33000/110		Yes
3	Kishanganj	ES-90	NP-8876-A	L&T	50	33000/110		No
4	Lakhisarai	ES-94	NP-8870-A	L&T	50	33000/110		Yes
5	Patna	ES-89	ER-1285-A	Genus	50	33000/110		Yes
6	New Ranchi(765)	ES-87	NP-8752-A	L&T	50	33000/110		Yes
7	Ara(220)						Detail not rcvd	No
8	Biharshariff						Detail not rcvd	No

9	Chaibasa						Detail not rcvd	No
10	Jamshedpur						Detail not rcvd	No
11	Muzaffarpur						Detail not rcvd	No
12	New Purnea						Detail not rcvd	No
13	Pusauli						Detail not rcvd	No
14	Ranchi(400/220)						Detail not rcvd	No
ER-II & Odhisa Project								
1	Angul	ES-95	NP-5942-A	L&T	1000	415/110		Yes
2	Pandiabili	ES-39	NP-7462-A	L&T	1000	415/110		Yes
3	Rangpo (33 kv TRF)	ES-96	NP-7940-A	L&T	1000	415/110		Yes
4	Rangpo (11 KV AUX TRF)	ES-97	NP-7941-A	L&T	1000	415/110		Yes
5	Sundergarh	ES-93	ER-1019-A	Genus	50	33000/110		Yes
6	Birpara						Detail not rcvd	No
7	Baripada						Detail not rcvd	Yes
8	Durgapur						Detail not rcvd	No
9	Maithon						Detail not rcvd	No
10	Siliguri						Detail not rcvd	No
11	Subhashgram						Detail not rcvd	No

OCC advised Powergrid to submit the details of pending SEM details connected to tertiary windings and also the SEM readings on regular basis to ERLDC and ERPC for accounting of the tertiary loading arrangement.

Powergrid may update.

Item No. B.34: Non scheduling of MTPS Stage-II (2x195 MW)

KBUNL vide letter dated 11-07-2017 informed that in special meeting held on 25.01.2017 at ERPC, Kolkata, it was agreed by all the parties that scheduling of MTPS Stage-II shall be done by SLDC, Patna.

In this regard, KBUNL is sending daily declaration of availability, for MTPS Stage-II, to SLDC, Patna with a specific remark as mentioned below:

"Kindly forward this DC to ERLDC also for scheduling purpose of other eastern region beneficiaries of MTPS Stage-II of KBUNL namely Jharkhand, West Bengal, DVC, GRIDCO & Sikkim".

However, it is learned that SLDC, Patna is not co-ordinating with ERLDC to enable scheduling of other Eastern Region beneficiaries of MTPS Stage-II.

It is also pertinent to mention that JBVNL (Jharkhand) has signed LTA agreement with CTU. Further, JBVNL vide their letter ref. no. 909/ C.E. (C&R)/ Ranchi dtd. 22.06.2017 have contended that even after signing of LTA agreement their power is not getting scheduled i.e. they are not getting intimation from SLDC, Patna/ ERLDC regarding scheduling of MTPS Stage-II. Moreover, other Beneficiaries of MTPS Stage-II have also raised similar issues.

In view of the above, and in order to discharge the functions/duties assigned to SLDC Electricity Act, 2003, you are kindly requested to co-ordinate with ERLDC for scheduling other Eastern Region beneficiaries of MTPS Stage-II.

JUSNL and KBUNL may discuss.

Item No. B.35: Control area Jurisdiction of Tasiding HEP --ERLDC

Tasiding is an Independent Power Producer (IPP), having only connectivity with STU (Govt. of Sikkim) network and embedded entity of Sikkim so as per IEGC clause 6.4.2.c.ii and CERC order 95 MP 2013, the scheduling responsibility lies with the State Load Despatch Centre, Sikkim.

IEGC 6.4.2. clause states that:

Quote

"The following generating stations shall come under the respective Regional ISTS control area and hence the respective RLDC shall coordinate the scheduling of the following generating stations:

a) Central Generating Stations (excluding stations where full Share is allocated to host state),

b)

c) In other cases, the control area shall be decided on the following criteria:

(i)

(ii) If a generating station is connected only to the State transmission network, the SLDC shall coordinate scheduling, except for the case as at (a) above.

(iii)

(iv)

Member may please discuss.

Item No. B.36: Non Receipt of meter Data -- ERLDC

1. Motipur & Samastipur in BSPTCL

220 KV Darbhanga(DMTCL)-Motipur (BSPTCL) D/C Line & 220 KV Darbhanga(DMTCL)-Samastipur (BSPTCL) S/C Line has already been charged and synchronized in April'17. Meter has been installed at BSPTCL end. BSPTCL was requested to send SEM data to ERLDC by every Tuesday. It has been seen that in spite of ERLDC request BSPTCL is not sending the data of Genus Meter installed at Motipur & Samastipur.

In 133rd OCC, ERLDC informed that the Genus meter software is available in ERLDC website and it can be installed in Laptop. The SEM data can be downloaded through Laptop.

BSPTCL agreed to send the SEM data after downloading the software.

ERLDC informed that BSPTCL is sending data of Motipur end but Samastipur end data is still pending.

In 134th OCC, BSPTCL requested for a Laptop for downloading the meter data.

Powergrid informed that the software can be downloaded in desktop available at Substation.

OCC advised Powergrid to allocate the Laptops to constituents.

BSPTCL may update.

2. Jeynagar meter data at OPTCL

Jeynagar end meter NP-5964-A for 220 KV Jeypore(PG) Line-2 is not being sent from OPTCL since last 2 month. Moreover, the above meter is also not reporting in AMR. Matter is already informed to OPTCL as well as PGCIL. In absence of meter data end to end data validation is not possible.

In 133rd OCC, OPTCL & PGCIL were advised to check the SEM and resolve the issue at the earliest.

In 134th OCC, OPTCL informed that they are not able to download the meter data due to some problem in meter.

Powergrid agreed to look into.

OPTCL & PGCIL may please respond.

3. Chandil meter at JUSNL

Chandil end meter NP-7434-A of 220 KV Ranchi (PG) Line is not recording any data since last one month. PGCIL Ranchi was requested to check the meter healthiness. However problem is still persisting.

In 133rd OCC, Powergrid informed that SEM is healthy and there may be connection problem.

OCC advised JUSNL to check the meter connections.

In 134th OCC, JUSNL informed that the line is now charged through tie bus and they will verify the connections after shifting the line to Main bus.

JUSNL may update.

Item No. B.37: WBSETCL Agenda

1. Replacement of 1000/1A CT by 2000/1A CT at both end of 400kV Baharampur-Jeerat line
2. Shutdown of 400kV Farakka-Baharampur and 400kV Baharampur-Jeerat lines simultaneously from 06:00 to 17:00 Hr. on daily basis on two consecutive days
3. Power assistance to WBSETCL S/s from DVC Kolaghat on daily basis from 07:00 to 15:00hr. during shutdown of 132kv (TPP-Kolaghat D/C line)

Members may discuss.

Item No. B.38: 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.

Powergrid updated the latest status as follows:

	Scope (no. of location s)	Installed Locations	1st set of Measurements submitted	2nd set of Measurements submitted	3rd set of Measurements submitted	4 th set of Measurements submitted	5 th set of Measurements submitted
JUSNL	67	27	17	17	13	15	24
BSPTCL	59	52	40	29	4	3	0
WBSETCL	73	68	43	4	3	1	1

OPTCL	164	102	100	90	79	78	24
SIKKIM POWER	12	9	6	6	0	0	9
POWERGRID ER1	99	99	99	47	0	15	0
POWERGRID ER2	40	40	40	40	24	0	0
POWERGRID ODISHA	42	42	42	42	40	40	0

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.

It is also requested to send the onward measurement results to following emails in addition to current email ids

1. vbhaskar@powergridindia.com
2. ritesh.kumar@powergridindia.com

Members may update.

Item No. B.39: Mock Black start exercises in Eastern Region – ERLDC

i) The status of black start exercises

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

Sl no	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	U.Kolab	Last week of May, 2017	30 th May 2017	Last Week of January2018	
2	Maithon	1stweek of June 2017	Completed on 04.04.17	1stWeek of February2018	
3	Rengali	2ndweek of June 2017	29 June 2017	Last week of November 2017	
4	U. Indarvati	3rdweek of June 2017		2ndweek of February2018	
5	Subarnarekha	1stweek of October 2017		1stweek of January2018	
6	Balimela	3rdweek of October 2017		1stweek of March 2018	
7	Teesta-V	2ndweek of Nov 2017		Last week of February2018	
8	Chuzachen	Last Week of May2017	May, 2017	January2018	
9	Burla	Last Week of June 2017	1 st week of July, 2017	Last week of February2018	
10	TLDP-III	1stWeek of June 2017	After Mansoon	2ndWeek of January2018	
11	TLDP-IV	Last Week of June 2017	After Mansoon	1stWeek of February2018	

Black start and FGMO/RGMO operation of Purulia Pump Storage Project (PPSP) units of WBSEDCL – ERLDC

In the 130th OCC Meeting held on 17th February, 2017 WBSEDCL informed that they had contacted OEM Toshiba for feasibility of black start and OEM required to conduct a simulation with

CEA recommendations. OCC advised WBSEDCL to expedite the process as the time extension granted by CERC for making black-start and FGMO/RGMO operational in PPSP units, was going to lapse by March.2017.

WBSEDCL representative assured to appraise the present status at an early date.

WBSEDCL may update.

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.

Item No. B.40: Updated Operating Procedure of Eastern Region

In compliance to section 5.1(f) of the IEGC, the Operating Procedure of Eastern Region has been updated taking into consideration relevant changes in the regional power system as well as that of IEGC and related CERC regulations, till 30-06-2017.

Soft copy of the procedure was emailed to all stakeholders of Eastern Region on 07-07-2017 vide ERLDC letter dated ERLDC/SS/OP/2017/1673.

Main revisions / updating have taken place in the chapters on Frequency Management, Voltage Management, Periodic Reports and Event Information, Network Security and Congestion Management, Scheduling and Despatch Procedure, Metering and Settlement System and in all Annexures.

As no comments / observations have been received till date, the procedure would be finalized and uploaded in ERLDC website by 20-07-17. This is for information of all concerned.

Members may note.

Item No. B.41: 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 126th OCC requested all the generators to 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:

- (1) On 27.06.17, at 00:15 Hrs load loss of about 1500 MW Occurred due to tripping in Haryana system.*

ERLDC may update.

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

134th OCC advised all the constituents to go through the list and update the latest status vide mail to ERPC/ERLDC.

ERPC vide letter dated 6th July 2017 advised all the generators to update the latest status of RGMO/FGMO.

Updated status of the RGMO/FGMO of ER generators are enclosed in **Annexure-B41**. The list is also available in ERPC website.

Members may update.

Item No. B.42: Reactive Power performance of Generators

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

Power Plant	Max and Min Voltage observed for June 17 (KV)	Date for monitoring (June 17)
Farakka STPS	420,400	1,2
Khalgaon STPS	422,404	9,27
Talcher STPS	407,395	2,21
Teesta	417,392	3,11
Bakreshwar TPS	412,399	2,16
Kolaghat TPS	423,395	2,16
Sagardighi TPS	423,402	2,27
MPL	419,407	1,27
Mejia-B	422,408	1,27
DSTPS	423,410	16,18
Adhunik TPS	422,406	2,21
Barh	436,410	9,27
JITPL	413,405	21,23
GMR	414,401	13,28
HEL	426,383	
Kodarma	425,402	9,27

ERLDC may present the reactive performance.

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.

PART C:: OPERATIONAL PLANNING

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

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

Members may confirm.

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

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

TSTPS unit #1 from 27.08.2017 to 26.09.2017, 30days for overhauling

Members may confirm.

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

(i) Generating units:

Sr No	Generating Station	UNIT NO	CAP(MW)	REASONS FOR OUTAGE	OUTAGE DATE
1	JITPL	1	600	COAL SHORTAGE	05-May-17
2	TSTPP	1	500	BOILER TUBE LEKAGE	11-July17
3	GMR	1	350	COAL SHORTAGE	20-Jun-17
4	RAGHUNATHPUR	1	600	LEAKAGE IN FEED WATER VENT LINE	12-Jun-17
5	PATRATU TPS	10	110	OVER HAULING	26-Jun-17
6	KOLAGHAT	3	210	DESYN DUE TO POLLUTION ISSUE	24-Feb-17
7	KOLAGHAT	6	210	STATOR EARTH FAULT	26-Jun-17
8	BOKARO B	2	210	DESYN DUE to LOW SYSTEM DEMAND	20-Jun-17
9	BOKARO B	1	210	DESYN DUE to LOW SYSTEM DEMAND	20-May-17
10	BOKARO B	3	210	DESYN DUE to LOW SYSTEM DEMAND	24-Jun-17
11	CTPS	2	130	HIGH TURBINE BEARING VIBRATION	1-Jun-17
12	SAGARDIGHI	4	500	TLR OPERATED	7-July-17
13	MEJIA	4	210	DESYN FOR LOW SYSTEM DEMAND	23-Jun-17
14	MEJIA	3	210	DESYN FOR LOW SYSTEM DEMAND	2-July-17
15	GMR	1	350	COAL SHORTAGE	13-May-17
16	SANTALDIH	5	250	ROTOR EARTH FAULT	30-Apr-17
17	DSTPS	1	500	TESTING OF HOUSE LOAD OPERATION	11-July-17
18	MEJIA	8	500	TURBINE VIBRATION	10-July-17
19	TENUGHAT	1	210	COAL SHORTAGE	14-Jun-17

(ii) Transmission elements

Transmission Element / ICT	Outage Date	Reasons for Outage
220 KV BALIMELA - U' SILERU	27.04.15	LINE IDLE CHARGED FROM UPPER SILERU END AT 12:42 HRS OF 25.01.17
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 NUMBER OF TOWERS ARE BADLY DAMAGED AT LOC, 46/9, 47/0 & 47/1 (In the mid of river Ganga).
220KV WARIA - BIDHANNAGAR-II	10.09.16	LINE UNDER B/D, TOWER COLLAPSED AT LOC NO 28
400 KV STERLITE - MERAMUNDALI D/C	15.05.17	TOWER CROSS ARM DAMAGED

Members may update.

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.

Item no. C.5: ER Grid performance during June, 2017

The average consumption of Eastern Region for June-2017 was 416 Mu. Eastern Region has achieved record maximum energy consumption of 438Mu on 14th June-17. Total Export schedule of Eastern region for June-2017 was 2163 Mu, whereas actual export was 1959 Mu.

ERLDC may present.

PART D:: OTHER ISSUES

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

System frequency touched a maximum of 50.24 Hz at 06:03 Hrs of 07/06/17 and a minimum of 49.72 Hz at 22:11 Hrs of 02/06/17. Hence, no report of operation of UFR has been received from any of the constituents.

Members may note.

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 June'17.

Members may note.

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

Sr No	GD/GI	Date	Time	S/S involved	Affected System	Summary
1	GD-I	04/06/2017	17:28	Jamui	BSPTCL	132 KV Jamui-Seikhpur S/C was under shutdown. Transient R-N fault occurred at 132/33 kV transformer I & II at Jamui. To clear the fault 132 kV Lakhsarai - Jamui D/C tripped from Lakhsarai end on Z-III(Jamui was radially connected to Lakhsarai) resulting total power failure at Jamui. Fault distance is 49 km from Lakhsarai. F/C is 1.745kA.
2	GD-I	05/06/2017	00:05	CTPS A	DVC	All 132 kV lines connected to CTPS A S/S along with Unit VII & VIII at CTPS B and 220/132 kV ATR - I, II & III (160 x 2 +150) at CTPS A tripped due to CT failure of 132 kV CTPS A-Rajbera-II at CTPS A end.
3	GD-I	05/06/2017	20:27	Hatia, Biharshariff, Fatuah, Begusarai	JUSNL, BSPTCL & ISTS	At 20:27 hrs 220 kV Ranchi – Hatia D/C tripped due to Y-N fault in Circuit I. After tripping of 220 kV Ranchi – Hatia D/C, both ICTs at Biharshariff tripped due to high loading and 220 kV TVNL – Biharshariff S/C tripped only from TVNL end in Y-N, Z-II (F/D 164 km). After tripping of 220 kV TVNL – Biharshariff S/C & 400/220 kV ICTs at Biharshariff, supply to Hatia, Patratu and its surrounding area was lost. 220 kV Patna – Fatuah S/C tripped on

						overload and 220 kV Darbhanga – Ujiarpur S/C was manually switched off to control line loading.
4	GD-I	06/06/2017	03:27	Teesta III	ISTS	At 03:27 hrs 400 kV Teesta III – Rangpo S/C tripped from both ends on Y-B-N fault, which resulted tripping of all running units (#I, #II, #IV, #V & #VI) at Teesta III and Dikchu (unit #I & II) due to loss of evacuation path. At same time, 400 kV Teesta III – Dikchu S/C tripped from both ends due to O/V.
5	GD-I	06/06/2017	14:05	PTPS	JUSNL	At 14:05 hrs 220 kV PTPS - Hatia - I tripped from both ends (PTPS end: Z-I & Hatia end: Z-II). At same time 220 kV Tenughat - PTPS S/C tripped from PTPS end on Overload and 220/132 kV ATR - I, II & III at PTPS tripped on operation of E/F, differential protection and master trip relay
6	GD-I	11/06/2017	11:39	Hazipur	BSPTCL	At 11:39 hrs 220 KV Muzaffarpur-Hazipur-D/C tripped due to Y-B fault (F/D-69.89 Km, F.C- 2.75 KA and 2.45 KA at Muzaffarpur; Y-B, F/C 4.6 kA at Hazipur) resulting total power failure at Hazipur. 220 KV HJP-Amnour - I tripped at same time.
7	GD-I	15/06/2017	06:23	Fatuah	BSPTCL	At 06:23 hrs 220 kV Patna - Fatuah S/C (tripped from Patna), 220 kV Sipara - Fatuah S/C (idle charged portion tripped from Fatuah, Y-N, Z-I, 16.5 km from Fatuah, 2.5 kA), 220 kV Biharshariff - Fatuah - I (tripped from Fatuah, Non Dir. O/C& E/F. IY-2.53 kA, IB-2.4 kA) & 220 kV Biharshariff - Fatuah - II (tripped from Biharshariff, Z-II, 58.47 km, IY-2.75 kA, IB-2.564kA) tripped resulting total loss of supply to Fatuah S/S
8	GD-I	17/06/2017	16:14	Teesta III	ISTS	400 kV Teesta III - Rangpo S/C tripped during SPS testing at Teesta III. Unit #1, #2, #4, #5 & #6 at Teesta III & Unit #1 & #2 at Dikchu tripped due to loss of evacuation path. DT was received at Rangpo
9	GD-I	18/06/2017	06:15	Arrah	BSPTCL	132/33 kV ATR - I & II at Arrah (BSPTCL) tripped due to operation of overflux operation.
10	GD-I	18/06/2017	13:42	Purnea	ISTS	132 kV Purnea (PG) - Purnea (BSPTCL) - I tripped due to falling of jack bus jumper on Main Bus at Purnea(BSPTCL). At same time 220/132 kV ICT I, II & III at Purnea(PG) & 220KV New Purnea-Purnea D/C line tripped on backup overcurrent.

11	GD-I	18/06/2017	22:37	Birpara	ISTS	220 kV Chukha-Malbase was out of service. As per SOE, 220kV Birpara-Malbase S/C, 220kV Birpara-Alipurduar - II & 220kV Birpara-Chukha - II along with 220 kV B/C tripped from Birpara at 22:37:34:680 hrs. Then 220kV Birpara-Alipurduar - I, 220kV Birpara-Binaguri D/C, 220kV Birpara-Chukha - I, 132 kV Birpara - Birpara D/C along with 220/132 kV ATR - I & II tripped from Birpara (PG) within 100 ms. Operation of bus bar protection at Birpara has been reported. Both bus I & II became dead.
12	GD-I	19/06/2017	14:35	Hazipur	BSPTC L	220 KV Muzaffarpur-Hazipur-D/C tripped due to Y-B fault. As Hazipur was radially fed from Muzaffarpur, load loss occurred at surrounding area. In PMU data, two Y-B fault have been observed within 1 sec.
13	GD-I	23/06/2017	19:20	Hazipur	BSPTC L	220 KV Muzaffarpur-Hazipur D/C are out due to tower collapse. Hazipur was supplied through 132 KV Samastipur-Hazipur S/C. 132 kV Hazipur - Shetalpur - Chapra link (Shetalpur supplied from Vaishali & Chapra supplied from Siwan) and 132 kV Hazipur - Jandaha link was open from Hazipur to control loading at upstream network. At 19:20 hrs, 132 KV Samastipur-Hazipur S/C tripped due to R phase drop jumper snapping at Samastipur S/S.
14	GD-I	24/06/2017	14:25	Arrah	BSPTC L	132/33 kV ATR - I & II at Arrah (BSPTCL) tripped due to operation of overflux operation.
15	GD-I	24/06/2017	15:49	Teesta III	ISTS	400 kV Teesta III - Rangpo S/C tripped on O/C from Teesta III end. DT received at Rangpo. Delayed fault clearance has been observed
16	GD-I	28/06/2017	15:02	Nandokhar	BSPTC L	220 KV Ara-Nandokhar S/C was opened due to O/V. Nandokhar was radially connected to Sasaram. Total power failure at Nandokhar occurred after tripping of 220 kV Sasaram - Nandokhar S/C due to DT received at Nandokhar end. 220KV Ara-Khagaul D/C were opened due to O/V prior due to disturbance.
17	GD-I	28/06/2017	15:52	Nandokhar	BSPTC L	220 KV Ara-Nandokhar S/C was opened due to O/V. Nandokhar was radially connected to Sasaram. Total power failure at Nandokhar occurred after tripping of 220 kV Sasaram - Nandokhar S/C due to DT received at Nandokhar end. 220KV Ara-Khagaul D/C were opened due to O/V prior due to disturbance.
18		7.06.2017	11:44	Khagaul	BSPTC L	Ara PG-Khagaul line tripped in zone1 from Khagaul end, and 100 MVA ICT tripped in overcurrent earth fault

Multiple elements tripping without load loss

1	GI-II	01/06/2017	22:00	RTPS	DVC	At 22:00 hrs main breakers of all elements connected to 400 kV main bus – I at RTPS tripped due to LBB initiation and subsequent operation for the fault in idle charged portion of 400 kV Ranchi – RTPS – III. As per ERLDC SCADA data, power flow in 400 kV DSTPS – RTPS – I & 400 kV Ranchi – RTPS – I became zero.
2	GI-I	06/06/2017	16:30	Tarkera	OPTCL	At 16:30 hrs 220 kV Tarkera - Budhipadar D/C tripped due to Y-N fault (Relay Indication at Budhipadar Y-N, Z-I). At 16:31 hrs 220 kV Tarkera - Rourkela D/C tripped due to Back up O/C & E/F protection at Rourkela. In Rourkela PMU data, R phase voltage dip observed at 16:30:10 hrs. Fault duration is around 6000 ms. Same type of voltage dip has been observed in Ranchi PMU data also. Another voltage dip has been observed at 16:30:80 hrs in R phase. Fault clearing time is 600 ms
3	GI-II	15/06/2017	14:23	Dharamjaigarh	ISTS	At 14:23:12.417, distance protection of Dharamjaigarh-Jabalpur Ckt-3 issued trip command on R-Y fault at both ends. At Dharamjaigarh end, main CB tripped, however, none of the poles of Tie CB tripped, thus all the connected lines tripped on Zone-3 from remote end. LBB did not operate at Dharamjaigarh due to failure in DC supply. Fault was cleared after tripping of 765kV Dharamjaigarh-Ranchi - II after 4 minutes from the fault.
4	GI-II	15/06/2017	15:53	Meeramundali	OPTCL	400 kV Meeramundali - Mendasal S/C, 400 kV GMR - Meeramundali S/C, 400 kV Meeramundali - Duburi - I, 400 kV Meeramundali - Angul - II, 400 kV Meeramundali - SEL D/C, 400/220 kV ICT - I at Meeramundali tripped due to LBB operation of bus - I at Meeramundali.

Members may note.

Item no. D.4: Reporting of voltage deviation indices (VDI) for select S/Stns in ER

ERLDC submitted the Voltage Deviation Index (VDI) of selected 400 kV Sub-stations for June, 2017 of Eastern Region which is enclosed at **Annexure- D.4.**

Members may note.

Item no. D.5: Additional agenda

Annexure B5**Format III D**

< Name and Address of Transmission Licensee>

Undertaking by transmission licensee in respect of statutory clearances

It is hereby certified that all statutory clearances in accordance with relevant CERC Regulations / CEA standards / CEA regulations and PTCC route approval for charging of _____ have been obtained from the concerned authorities.

Place:

Date:

(Name and Designation of the authorized person with official seal)



JHARKHAND URJA SANCHARAN NIGAM LIMITED

Office of the

Chief Engineer, SLDC/ULDC, Computer System & Telecom

Kusai Colony, Doranda, Ranchi

Phone: 0651-2490090, Fax: 0651-2490486, Email: sldcranchi@gmail.com

Letter No. _____ SLDC/ULDC, Ranchi

Date _____

From,

Er, Akshay Kumar
Chief Engineer, SLDC/ULDC,
Ranchi

To,

Mr. Anirudhya saha
Manager
29, B. Lake temple road,
Kolkata-29

Sub: **Implementation of ADMS scheme through SCADA software in JUSNL system.**

Dear Sir,

The ADMS scheme has to be implemented presently through the 33 KV feeders connected with chemtrol make RTU installed in 15 nos. of Grid Sub Station. The logic for implementation of scheme will be as mentioned below.

- i) **Condition-I**:-If $f < 49.90$, and $\{(excess\ drawl\ above\ schedule\ power + 12\% \text{ of schedule power})\}$ is less than 25 MW} then (Block-I)—33 KV feeders will be selected for load shedding.
- ii) **Condition II** :-If $f < 49.90$ & (excess drawl above scheduling power+12% of Schedule power) greater than 25 but less than 50 MW, then (Block I + Block II) will be selected for load shedding.
- iii) **Condition III** :- $f < 49.90$ & (excess drawl above schedule power+12% of schedule power) is greater than 50 MW & less than 75 MW then (Block I+ Block II+ Block III) will be selected for load shedding.
- iv) Each block will contain a list of 10 feeders.
- v) Each block feeders will rotate in order to Keep on changing Cyclically.

List of feeders of each block for rotation is enclosed separately.

So, you are requested to submit the feasibility of implementation of ADMS scheme based on above logic. Further, following information may be taken into consideration while formulating feasibility.

Drawl of schedule power through 7 nos. AREVA make Tie points RTU are being reported, rest 6 nos. of RTU of the points are not reporting at JUSNL end. However, other ends are reporting. we are under process of replacement of all the AREVA make RTUs as well as non-functional RTUs of the tie point feeders.

Therefore, you are requested to check the logic & ascertain feasibility. Further course of action will follow the feasibility report.

With regards!

Yours faithfully,

Sd/-

(Akshay Kumar)

C.E, SLDC/ULDC, Ranchi

Date 11-07-2017

No 297 'SLDC/ULDC, Ranchi

Copy forwarded to Member secretary, ERPC, Kolkata for kind information.

Encl:- Annexure, I, II & III.

(Akshay Kumar)
C.E., SLDC/ULDC, Ranchi

Details of blocks-III

Sr. No.	Name of GSS	Name of 33 KV Feeders	Load (MW)	Voltage Level
1	Namkum	Tatisilway	13	33 KV
2	Manique	Chandil I	15	33 KV
3	Adityapur	K. Basti	11	33 KV
4	Adityapur	RKSF	16	33 KV
5	Namkum	Vikas	16	33 KV
6	Namkum	Kokar (Rural)	17	
7	Adityapur	ADP I	17	33 KV
8	Kanke	Kanke	16	33 KV
9	Adityapur	NIT	12	33 KV
10	Adityapur	RF II	12	33 KV

Details of blocks-II

Sr. No.	Name of GSS	Name of 33 KV Feeders	Load (MW)	Voltage Level
1	Daltonganj	Dariya	16	33 KV
2	Dumka	Dumka	22	33 KV
3	Dumka	Basukinath	12	33 KV
4	Pakur	Pakur	14	33KV
5	Daltonganj	Redma	17	33 KV
6	Adityapur	ADP II	10	33 KV
7	Namkum	Namkum	11	33 KV
8	Manique	NIPL	24	33 KV
9	Golmuri	Jugsalai	19	33 KV
10	Sahebganj	Sahebganj	10	33 KV
11	Golmuri	Karnadih	18	33 KV

✓

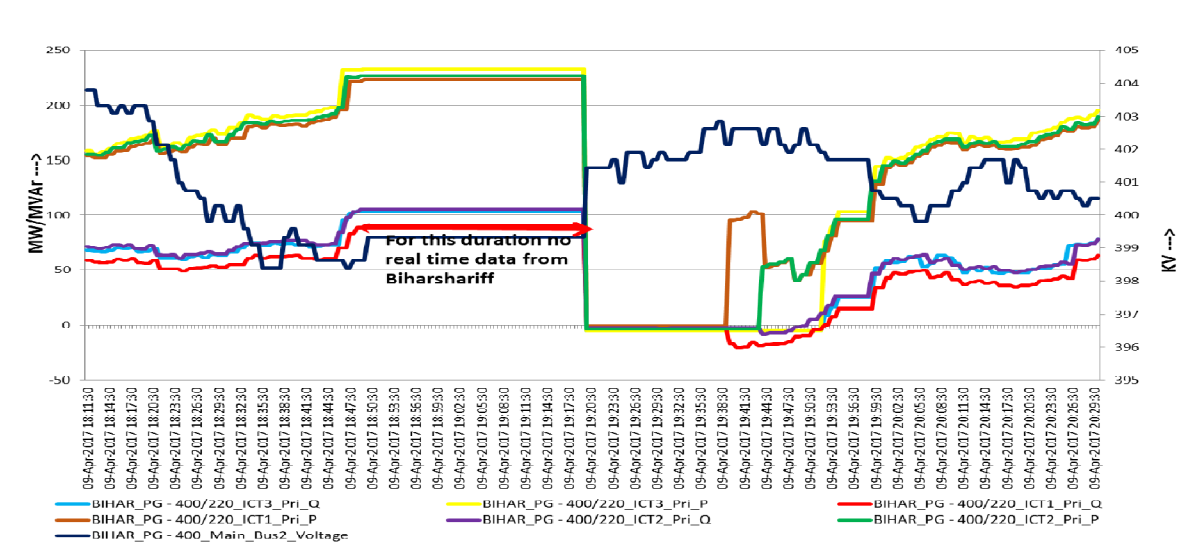
Details of blocks-I

Sr. No.	Name of GSS	Name of 33 KV Feeders	Load (MW)	Voltage Level
1	Dumka	Sariyahat	13	33 KV
2	Tamar	Bundu	16	33 KV
3	Kamdara	Kolibera	13	
4	Pakur	Patharia	11	33KV
5	Golmuri	Birsanagar	12	33 KV
6	CKP	CKP	14	33 KV
7	Tamar	Bundu	16	33 KV
8	Golmuri	Govindpur	16	33 KV
9	Japla	Japla	14	33 KV
10	Kamdara	Torpa	13	33 KV

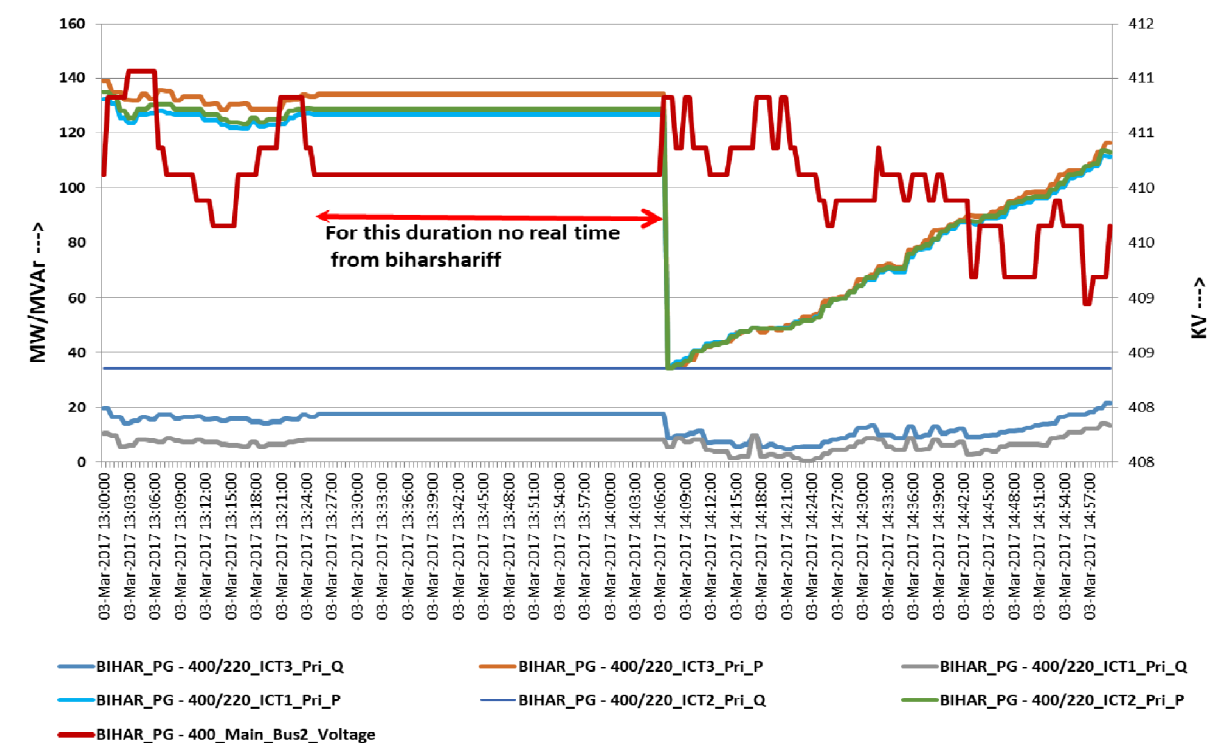
Annexure – B25

Outage of real time SCADA data during ICTs tripping in ER

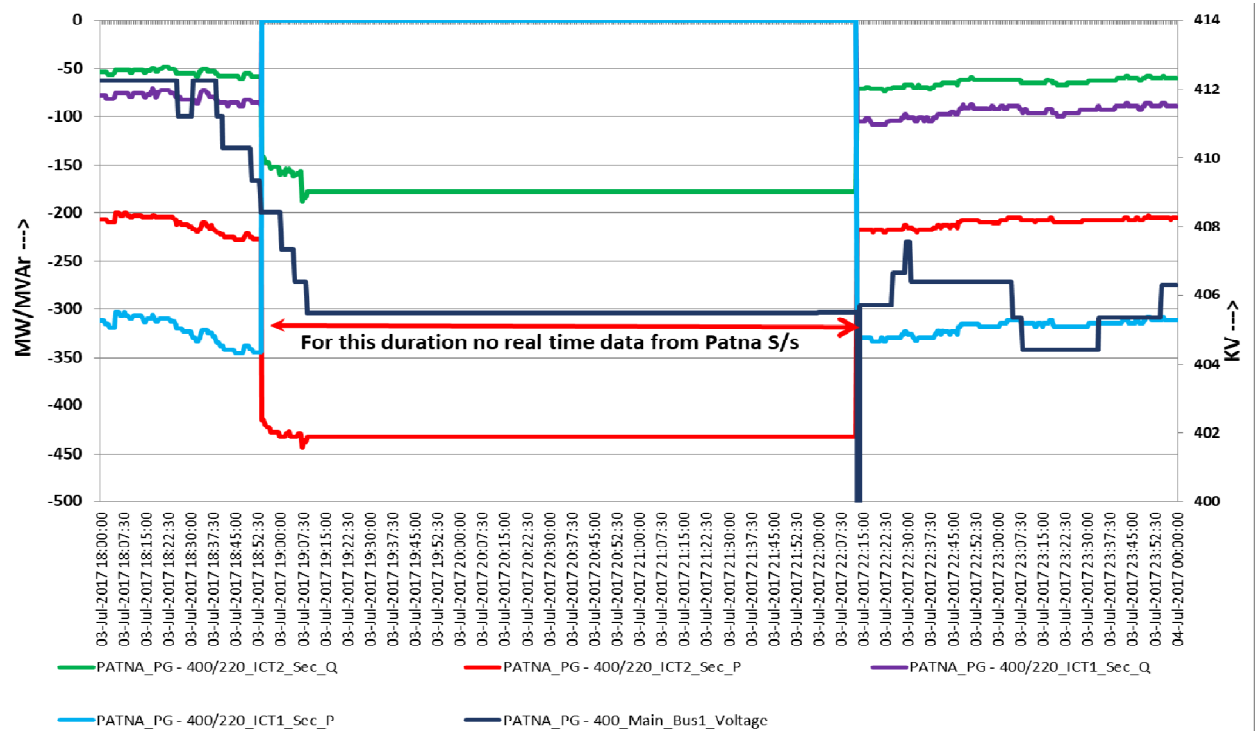
Event 1: 400/220 kV ICT I,II and III of Biharshariff S/s tripped at 18:46:30 on 09th April, 2017



Event 2: 400/220 kV ICT I,II and III of Biharshariff tripped at 13:25 hrs on 3rd March, 2017



Event 3: 400/220 kV ICT I and II tripped at Patna at 18:53 Hrs on 03.07.2017



Annexure – B26

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

	SEL Make PMU
	Siemens MakePMU

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	Commiss ioning	Integration	SAT	Remarks
			78			286	175	73	61	51	45	40	40	24	37	
1	ER-II	West Bengal	Arambagh	WBSETCL	CR	3	1	Yes	Yes	done	done	pending	pending	Pending	pending	CT/ PT/ DI interfacing pending due to permission issue.
2	ER-II	West Bengal	BAKRESHWAR TPS	WBSETCL	CR	4	1	Yes	Yes	done	pending	pending	pending	Pending	pending	Panel erected. Cable laying pending due to permission issue.
3	ER-II	West Bengal	Bidhannagar	WBSETCL	CR	3	1	Yes	Yes	done	done	pending	pending	Pending	pending	Panel erected. Cable laying and termination at PMU panel completed. CT/ PT/ DI interfacing pending due to permission issue.
4	ER-II	West Bengal	JEERAT	WBSETCL	CR	2	1	Yes	Yes	done	done	done	done	done	pending	SAT pending as customer didn't agree to witness SAT.
5	ER-II	West Bengal	Kolaghat TPS	WBSETCL	CR	4	1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
6	ER-II	West Bengal	KASBA	WBSETCL	CR	3	1	Yes	Yes	done	done	done	done	done	pending	SAT pending as customer didn't agree to witness SAT.
7	ER-II	DVC	DSTPS	DVC	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
8	ER-II	DVC	Kodarma TPS	DVC	CR	3	1	Yes	Yes	done	done	done	done	Pending	done	Communication panel does not exist.
9	ER-II	DVC	MEJIA-B	DVC	CR	2	1	Yes	Yes	done	done	done	done	done	done	Integrated on 07.12.2016
10	ER-II	DVC	Maithon RB TPS	DVC	CR	2	1	Yes	Yes	pending	pending	pending	pending	Pending	pending	Work started on 04.07.2016. Panel shifted. Team demobilised due to access issue and panel location issue.
11	ER-II	DVC	Raghunathpur TPS	DVC	CR	3	1	Yes	Yes	done	done	done	done	Pending	done	Communication link was not available during work.
12	ER-II	DVC	MEJIA	DVC	CR	5	2	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Will be integrated on Mar 2017.
13	ER-II	DVC	Bokaro	DVC	CR	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.06.2016
14	ER-II	DVC	CTPS(Chanderpura)	DVC	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Will be integrated on Mar 2017.
15	Odisha	Orissa	Budhipadar	OPTCL	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
16	Odisha	Orissa	MENDHASAL	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	OPTCL is not providing CT/ PT connection for Meeramundali-2 feeder.
17	Odisha	Orissa	MERAMANDALI	OPTCL	CR	6	2	Yes	Yes	done	under progress	pending	pending	Pending	pending	
18	Odisha	Orissa	RENGALI	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Integration delayed because CAT-6 cable is faulty.
19	Odisha	Orissa	U.KOLAB	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	
20	Odisha	Orissa	BALIMELA(H)	OPTCL	CR	3	1	Yes	Yes	done	done	partially done	pending	Pending	done	OPTCL denied to provide DC connection. CT/PT/DI interfacing pending due to permission issue.
21	ER-II	West Bengal	Durgapur	Powergrid	CR	5	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 30.05.2016.
22	ER-II	West Bengal	FARRAKA	NTPC	CR	5	2	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
23	Odisha	Orissa	Indrawati	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
24	Odisha	Orissa	Indrawati HPS	OPTCL	CR	1	1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	OPTCL denied to provide DC connection.
25	Odisha	Orissa	JEYPORE	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
26	ER-II	West Bengal	MAITHON	Powergrid	CR	7	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 21.06.2016.
27	ER-II	West Bengal	MALDA	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.06.2016
28	Odisha	Orissa	Rengali	Powergrid	Kiosk	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 04.05.2016
29	Odisha	Orissa	ROURKELA	Powergrid	Kiosk	5	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 21.04.2016
30	ER-II	West Bengal	Binaguri	Powergrid	CR	7	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 28.07.2016
31	ER-II	West Bengal	SUBHASHGRAM	Powergrid	Kiosk	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 22.06.2016
32	Odisha	Orissa	Baripada	Powergrid	CR	3	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 30.01.2017.
33	Odisha	Orissa	Bolangir	Powergrid	CR+Kiosk	2	3	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
34	Odisha	Orissa	ANGUL	Powergrid	Kiosk	10	11	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.03.2017.

PMU Installation and commissioning status of ER as on 20.04.2017

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	Commiss ioning	Integration	SAT	Remarks
35	Odisha	Orissa	Keonjhar	Powergrid	CR	2	3	Yes	Yes	done	done	done	done	done	done	PMU integrated on 18.01.2017.
36	Odisha	Orissa	Jharsuguda	Powergrid	Kiosk	8	9	Yes	Yes	done	done	done	done	done	done	PMU integrated on 29.07.2016
37	Odisha	Orissa	GMR	GMR	Kiosk	3	4	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
38	ER-II	Sikkim	RANGPO	Powergrid	CR	4	1	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Will be integrated on Mar 2017.
39	ER-II	West Bengal	Baharampur	Powergrid	CR	2	3	Yes	Yes	done	done	done	done	done	done	PMU integrated on 10.05.2016
40	ER-II	West Bengal	Birpara	Powergrid	CR	4	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 15.07.2016.
41	ER-II	DVC	CTPS B	DVC	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
42	ER-II	DVC	KALYANESWARI	DVC	CR	4	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 02.01.2017.
43	ER-II	DVC	PARULIA	DVC	CR	5	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 21.02.2017.
44	ER-II	West Bengal	Purulia PSP	WBSETCL	CR	2	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
45	ER-II	Jharkhand	Bokaro TPS	DVC	CR	1	1	Yes	Yes	done	pending	pending	pending	Pending	pending	
46	ER-II	West Bengal	Durgapur TPS	DVC	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
47	Odisha	Orissa	TTPS(Talcher)	OPTCL	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
48	Odisha	Orissa	TALCHER	NTPC	CR	5	2	No	No	N/A	N/A	N/A	N/A	N/A	N/A	NTPC is not allowing to deliver mterial.
49	ER-II	Sikkim	TEESTA	Powergrid	CR	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
50	Odisha	Orissa	Uttara	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	Pending	pending	Communication link from s/s to ERLDC and NTAMC to be provided by PGCIL.
51	Odisha	Orissa	Jindal	JITPL	CR	2	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
52	Odisha	Orissa	Monnet	Monnet	CR	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
53	Odisha	Orissa	Strelite	Strelite	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
54	Odisha	Orissa	Ind barath	Ind barath	Kiosk	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
55	ER-II	Sikkim	New Melli	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
56	ER-II	Sikkim	TT Pool	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
57	ER-II	West Bengal	Alipurduar	Powergrid	CR	6	7	Yes	Yes	partially done	partially done	pending	pending	Pending	pending	Work started on 22.12.2016. 4 PMU panels and network panel installed. Rest 2 PMU panels could not be erected because location not finalised. Cable laying and termination at PMU panel completed for 6 feeders. CT/PT interfacing pending due to unavailability of shutdown. PGCIL is asking to take DI points from field, which is not in scope. Work is held up. Team demobilised.
58	ER-II	West Bengal	Rajarhat	Powergrid	CR	2	1	Yes	Yes	done	pending	pending	pending	Pending	pending	Work withheld due to localite agitation issue.
59	ER-I	Jharkhand	JAMSHEDPUR	Powergrid	CR	6	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 14.02.2017
60	ER-I	BIHAR	Kahalgaoon(KHSTPP)	NTPC	CR	6	2	Yes	Yes	done	done	pending	pending	Pending	pending	Work withheld due to gate pass issue.
61	ER-I	BIHAR	Purnea	Powergrid	CR	6	2	Yes	Yes	done	done	pending	pending	done	pending	PMU integrated on 13.04.2017
62	ER-I	BIHAR	PATNA	Powergrid	Kiosk	6	7	Yes	Yes	done	done	done	done	done	done	PMU integrated on 11.04.2017
63	ER-I	Jharkhand	RANCHI	Powergrid	Kiosk	12	13	Yes	Yes	done	under progress	pending	pending	Pending	pending	
64	ER-I	BIHAR	SASARAM(Pusauli)	Powergrid	CR+Kiosk	9	3	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
65	ER-I	BIHAR	BARH	NTPC	CR	4	1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
66	ER-I	BIHAR	LakhiSarai	Powergrid	Kiosk	4	5	Yes	Yes	done	done	done	done	Pending	done	SAT completed. PMU not integrated because FO cable was not delivered due to road permit issue.
67	ER-I	BIHAR	BANKA	Powergrid	Kiosk	4	5	Yes	Yes	done	done	done	done	Pending	pending	SAT pending. PMU not integrated because switch was not delivered to site. Switch in transit.

PMU Installation and commissioning status of ER as on 20.04.2017

S.No	Region	State	Sub-Station	Owner/ Utility	S/S type	PMU	TOTAL PANEL QTY	PMU Delivery status	Cable Delivery status	Erection	Cable laying	CT/PT/DI termination	Commiss ioning	Integration	SAT	Remarks
68	ER-I	Jharkhand	Chaibasa	Powergrid	Kiosk	4	5	Yes	Yes	done	under progress	pending	pending	Pending	pending	
69	ER-I	BIHAR	765kv Gaya	Powergrid	Kiosk	11	12	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.02.2017
70	ER-I	Jharkhand	765/400kv Ranchi (N)	Powergrid	Kiosk	8	9	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.02.2017
71	ER-I	Bihar	Biharshariff	Powergrid	CR	9	3	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
72	ER-I	Bihar	MUZAFFAPUR	Powergrid	CR	5	2	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
73	ER-I	Jharkhand	Daltonganj	Powergrid	Kiosk	2	3	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	Road permit for Switch is pending.
74	ER-I	Bihar	Kishanganj (karandegh)	Powergrid	CR	4	1	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mts.
75	ER-I	Jharkhand	Jharkhand Pool (Chandrapur)	Powergrid	Kiosk	4	1	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mts.
76	ER-I	Jharkhand	Patratu	Jharkhand	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
77	ER-I	Jharkhand	Tenughat	Jharkhand	CR	2	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
78	ER-I	Bihar	Barauni PP	Bihar	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.

ER PMU site activity Summary:

Sl. No.	Region	Utility	As per approved BOQ		Supplied		Installed		Commissioned		Integrated to ERLDC/ SLD	
			No. of Substations	No. of PMU	S/S	PMU	S/S	PMU	S/S	PMU	S/S	PMU
1	ER-I	Powergrid	15	94	15	94	11	69	8	47	5	37
2	ER-I	NTPC	2	10	2	10	1	6	0	0	0	0
3	ER-I	Jharkhand	2	5	2	5	0	0	0	0	0	0
4	ER-I	Bihar	1	0	0	0	0	0	0	0	0	0
	ER-I	Total	20	109	19	109	12	75	8	47	5	37
1	ER-II	Powergrid	13	42	11	42	10	39	8	33	7	29
2	ER-II	NTPC	1	5	1	5	0	0	0	0	0	0
3	ER-II	DVC	13	37	13	37	10	29	9	28	4	13
4	ER-II	WBSETCL	7	21	7	21	5	15	2	5	2	5
	ER-II	Total	34	105	32	105	25	83	19	66	13	47
1	Odisha	Powergrid	10	38	10	38	10	38	10	38	6	30
2	Odisha	OPTCL	8	19	6	16	5	15	3	6	0	0
3	Odisha	NTPC	1	5	1	5	0	0	0	0	0	0
4	Odisha	IPP	5	10	5	10	0	0	0	0	0	0
	Odisha	Total	24	72	22	69	15	53	13	44	6	30
	ER	Total	78	286	73	283	52	211	40	157	24	114

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

Sl. No.	Site Name	Work Progress
1	ERLDC	Installed, powered up, functioning and integrated with DVC, WBSETCL 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, functioning and integrated with ERLDC PDS system.

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.

Annexure-B31

List of drifted meters to be replaced in Phase-II

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

Details of stations/Units required to operate under RGMO/FGMO as per IEGC							Whether operating under RGMO	indicate in case of status is not available
Name of State	Type	Name of Utility	Sector (CS/SS/Private)	Name of Station	Name of Stage/ Unit	Installed capacity (MW)		
JHARKHAND	Thermal	TVNL	SS	Tenughat	1	210	No	Difficulties in implementing RGMO & exemption not
			SS		2	210	No	
	Hydro	JSEB	SS	Subarnrekha	1	65	Yes	
			SS		2	65	Yes	
WEST BENGAL	Thermal	WBPDC	SS	Bandel TPS	1	82.5	No	
			SS		2	82.5	No	
			SS		3	82.5	No	
			SS		4	82.5	No	
			SS		5	210	No	
			SS	Santalidih	5	250	No	Unit#6 could not be implemented because of some technical problem
			SS		6	250	No	
			SS	Kolaghat	1	210	No	Nil
			SS		2	210	No	Nil
			SS		3	210	No	Nil
			SS		4	210	No	Nil
			SS		5	210	No	Nil
			SS		6	210	No	Nil
			SS	Bakreshwar	1	210	Yes	
			SS		2	210	Yes	
			SS		3	210	Yes	
			SS		4	210	Yes	
			SS		5	210	Yes	
			SS	Sagardighi	1	300	No	Without OEM support it is not possible to put in FGMO/RGMO. At present OEM support is not
			SS		2	300	No	
	Hydro		SS	Raman Hydel	1	12.5	No	Station is not in RGMO. WBSETCL is pursuing with Rammam
			SS		2	12.5	No	
			SS		3	12.5	No	
			SS		4	12.5	No	
			SS	PPSP	1	225	Yes	In 134th OCC WBPDCCL informed that the units are in RGMO/FGMO mode
			SS		2	225	Yes	
			SS		3	225	Yes	
			SS		4	225	Yes	
	Thermal	CESC	SS	Budge-Budge	1	250	Yes	
			SS		2	250	Yes	
			SS	Haldia	3	250	Yes	
			SS		1	300	Yes	
	Thermal	DPL	SS	DPL	2	300	Yes	
			SS		7	300	Yes	
Orissa		OPGC	SS	IB TPS	1	210	No	Not adequate response in RGMO
			SS		2	210	No	
	Hydro	OHPC	SS	Burla	1	49.5	No	
			SS		2	49.5	No	
			SS		3	32	No	
			SS		4	32	No	
			SS		5	37.5	No	
			SS		6	37.5	No	
			SS		7	37.5	No	
			SS	Chiplima	1	24	No	
			SS		2	24	No	
			SS		3	24	No	
			SS	Balimela	1	60	No	
			SS		2	60	No	
			SS		3	60	No	
			SS		4	60	No	
			SS		5	60	No	
			SS		6	60	No	
			SS		7	75	No	
			SS		8	75	No	
			SS		1	50	No	
			SS		2	50	No	

			SS	Rengali	3	50	No				
			SS		4	50	No				
			SS		5	50	No				
			SS	Upper Kolab	1	80	No				
			SS		2	80	No				
			SS		3	80	No				
			SS		4	80	No				
			SS	Indravati	1	150	No				
			SS		2	150	No				
			SS		3	150	No				
			SS		4	150	No				
			71								
			Central Sector	Thermal	DVC	CS	Bokaro-B	1	210	No	RGMO mode of operation would not be possible for units1, 2 and 3. Because of non-availability of electro-hydraulic governor, digital voltage recorder and CMC.
CS	2	210				No					
CS	3	210				No					
CS	CTPS	2				140		No	Machines are very old (under consideration for phase wise decommissioning)		
CS		3				140	No				
CS		7				250	Yes				
CS		8				250	Yes				
CS	DTPS	4				210	No				
CS	Mejia	1				210	No	there is no DCS for SG/TG package the possibility of implementing RGMO is to be explored			
CS		2				210	No				
CS		3				210	No				
CS		4				210	No	Final tuning of RGMO is in progress			
CS	Mejia - B	5				250	Yes				
CS		6				250	Yes				
CS		7				500	Yes				
CS		8				500	Yes				
CS	DSTPS	1				500	Yes				
CS		2				500	Yes				
CS	KODERMA	1				500	Yes				
CS		2				500	Yes				
CS	RTPS	1				600	Yes				
CS		2				600	Yes				
Hydro						CS	Maithon	1	20	No	RGMO mode of operation would not be possible for units1, 2 and 3. Because of
						CS		2	20	No	
						CS		3	23.2	No	
						CS	Panchet	1	40	No	RGMO mode of operation would not be possible for
				CS	2	40		No			
				Thermal	NTPC	CS	Farakka STPP-I	1	200	Yes	
						CS		2	200	Yes	
						CS		3	200	Yes	
						CS	Farakka STPP-II	1	500	Yes	
						CS		2	500	Yes	
CS	Farakka-U#6					500	Yes	Kept in RGMO mode from April, 2014			
CS	Kahalgoan STPP	1				210	Yes				
CS		2				210	Yes				
CS		3				210	Yes				
CS		4				210	Yes				
CS		5				500	Yes				
CS		6				500	Yes				
CS		7				500	Yes				
CS	Talcher STPP Stg-I	1				500	Yes				
CS		2				500	Yes				
Hydro	NHPC	CS				* Rangit	1	20	No	Pondage capacity is to generate power upto 3 hours only.Hence not under	
		CS		2	20		No				
		CS		3	20		No				
		CS		Teesta HEP	1	170	Yes				
		CS			2	170	Yes				
		CS			3	170	Yes				
			48								
	Thermal	IPP	PS	Maithon RB TPP	1	525	Yes				
			PS		2	525	Yes				
			PS	Sterlite	1	600	Yes				
			PS		2	600	Yes				
			PS		3	600	Yes				

IPP	Hydro	IPP	PS		4	600	Yes	
			PS	Adhunik Power	1	270	Yes	
			PS		2	270	Yes	
			PS	JLHEP	1	48	No	(RoR project with 3 hours pondage)
			PS		2	48	No	
			PS	Chujachen HEP	1	49.5	No	(RoR project with 3 hours pondage)
			PS		2	49.5	No	
			PS	Teesta Urja	1	200	Yes	
			PS		2	200	Yes	
			PS		3	200	Yes	
			PS		4	200	Yes	
			PS		5	200	Yes	
			PS		6	200	Yes	
			PS	Dikchu	1	48	No	(RoR project with 3 hours pondage)
			PS		2	48	No	

**Anticipated Power Supply Position for the month of
Aug-17**

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
i)	NET MAX DEMAND	3900	2250
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	328	143
	- Central Sector	2806	1750
iii)	SURPLUS(+)/DEFICIT(-)	-766	-356
2	JHARKHAND		
i)	NET MAX DEMAND	1280	770
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	489	277
	- Central Sector	613	368
iii)	SURPLUS(+)/DEFICIT(-)	-178	-126
3	DVC		
i)	NET MAX DEMAND (OWN)	2640	1634
ii)	NET POWER AVAILABILITY- Own Source	4842	2686
	- Central Sector	453	339
	Long term Bi-lateral (Export)	1300	967
iii)	SURPLUS(+)/DEFICIT(-)	1356	424
4	ORISSA		
i)	NET MAX DEMAND	4350	2567
ii)	NET POWER AVAILABILITY- Own Source	3521	2054
	- Central Sector	1161	751
iii)	SURPLUS(+)/DEFICIT(-)	332	238
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAX DEMAND (OWN)	6160	3535
ii)	CESC's DRAWAL	0	0
iii)	TOTAL WBSEDCL's DEMAND	6160	3535
iv)	NET POWER AVAILABILITY- Own Source	3311	1880
	- Import from DPL	166	0
	- Central Sector	2919	1734
v)	SURPLUS(+)/DEFICIT(-)	236	79
vi)	EXPORT (TO B'DESH & SIKKIM)	10	7
5.2	DPL		
i)	NET MAX DEMAND	260	171
ii)	NET POWER AVAILABILITY	426	187
iii)	SURPLUS(+)/DEFICIT(-)	166	16
5.3	CESC		
i)	NET MAX DEMAND	1895	1040
ii)	NET POWER AVAILABILITY - OWN SOURCE	750	489
	FROM HEL	530	339
	FROM CPL/PCBL	0	0
	Import Requirement	615	212
iii)	TOTAL AVAILABILITY	1895	1040
iv)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAX DEMAND	8315	4746
ii)	NET POWER AVAILABILITY- Own Source	4487	2557
	- Central Sector+Others	4064	2073
iii)	SURPLUS(+)/DEFICIT(-)	236	-116
7	SIKKIM		
i)	NET MAX DEMAND	85	33
ii)	NET POWER AVAILABILITY- Own Source	10	7
	- Central Sector+Others	154	103
iii)	SURPLUS(+)/DEFICIT(-)	79	77
8	EASTERN REGION		
	At 1.03 AS DIVERSITY FACTOR		
i)	NET MAX DEMAND	19971	12000
	Long term Bi-lateral by DVC	1300	967
	EXPORT BY WBSEDCL	10	7
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	22929	13106
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	1648	133

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

System	Station	Unit	Size (MW)	Period		No. of Days	Reason
				From	To		
DVC ODISHA	MTPS	3	210	25.08.17	14.09.17	21	AOH (Boiler)
	CTPS	3	130	03.08.17	18.08.17	16	Burner Replacement
	IB TPS	2	210	01.08.17	04.09.17	35	COH
WBPDC	Bakreswar	5	210	13.08.17	02.09.17	21	Boiler Overhauling
	Santalidih	5	250	01.08.17	25.08.17	25	Boiler + LTP + Generator OH
	Barh	5	660	16.08.17	14.09.17	30	Boiler
NTPC	TSTPS	3	500	01.08.17	14.09.17	45	Boiler Mod.+Capital+Gen.+ESP R&M+Boiler RLA
IPP	MPL	1	525	14.08.17	14.09.17	32	Not Specified

**EASTERN REGIONAL LOAD DESPATCH CENTRE
KOLKATA**

TRANSMISSION ELEMENTS OUTAGE PROPOSED IN 135TH 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	765 KV BUS-I at Gaya S/S	26/07/17	08:00	26/07/17	18:00	ODB	ER-1 POWERGRID	For isolator rectification work under S/S extn. Package	NLDC
2	400KV BARH-GORAKHPUR-II	26/07/17	08:00	29/07/17	20:00	OCB	DMTCL	LILO of both the circuits of 400kV Barh to Gorakhpur Transmission Line at Motihari GIS Sub-station	NLDC
3	765 KV BUS-II at Gaya S/S	27/07/17	08:00	27/07/17	18:00	ODB	ER-1 POWERGRID	For isolator rectification work under S/S extn. Package	NLDC
4	400KV ROURKELA-SUNDARGARH-II	28/07/17	08:00	30/07/17	18:00	ODB	VEDANTA LTD	For overhead hot line stringing O/C 400KV D/C Vedanta-Sundargarh Line at Location No.AP09/0 -AP10/0 (PGCIL Loc. No.14-15)	
5	400KV RAIGARH-SUNDARGARH-II	28/07/17	08:00	30/07/17	18:00	ODB	VEDANTA LTD	For overhead hot line stringing O/C 400KV D/C Vedanta-Sundargarh Line at Location No.AP09/0 -AP10/0 (PGCIL Loc. No.14-15)	NLDC
6	400KV ROURKELA-SUNDARGARH-I	31/07/17	08:00	02/08/17	18:00	ODB	VEDANTA LTD	For overhead hot line stringing O/C 400KV D/C Vedanta-Sundargarh Line at Location No.AP10/0 -AP11/0 (PGCIL Loc.No.15-16)	
7	400KV RAIGARH-SUNDARGARH-I	31/07/17	08:00	02/08/17	18:00	ODB	VEDANTA LTD	For overhead hot line stringing O/C 400KV D/C Vedanta-Sundargarh Line at Location No.AP10/0 -AP11/0 (PGCIL Loc.No.15-16)	NLDC
8	315MVA ICT-II at Patna	01/08/17	08:00	01/08/17	18:00	ODB	ER-1 POWERGRID	Application of insulation sleeve on tertiary	Bihar
9	132 KV MAIN BUS AT PURNEA	01/08/17	09:00	01/08/17	10:00	ODB	ER-1 POWERGRID	GIS CONSTRUCTION WORK	Bihar
10	132 KV PURNEA - PURNEA BSPTCL#1 LINE	01/08/17	09:00	15/08/17	16:00	OCB	ER-1 POWERGRID	GIS CONSTRUCTION WORK	Bihar
11	160 MVA ICT#3 AT PURNEA	01/08/17	09:00	15/08/17	16:00	OCB	ER-1 POWERGRID	GIS CONSTRUCTION WORK	Bihar
12	132 KV PURNEA - PURNEA BSPTCL#2 LINE	01/08/17	09:00	15/08/17	16:00	OCB	ER-1 POWERGRID	GIS CONSTRUCTION WORK	Bihar
13	405 Bay(Tie bay of Mejia & Durgapur) AT JSR	01/08/17	09:30	08/08/17	17:30	OCB	ER-1 POWERGRID	Tie bay CB (40552) Replacement work	
14	A/R of 400 kV Bsf - Muzaffarpur - I	01/08/17	06:00	30/08/17	17:00	ODB	ER-1 POWERGRID	for OPGW installation work	
15	A/R of 400 kV Bsf - Banka - II	01/08/17	06:00	01/08/17	17:00	ODB	ER-1 POWERGRID	for OPGW installation work	
16	400KV CHAIBASA-KHARAGPUR-2	01/08/17	08:00	01/08/17	17:00	ODB	ER-1 POWERGRID	Checking of Autoreclose and CSD	West Bengal
17	400KV Kharagpur-Chaibasa#1	01/08/17	06:00	01/08/17	15:00	ODB	WB	PrePuja Bay Maintenance	
18	50MVAR BUS REACTOR at Rourkela	01/08/17	09:00	31/10/17	18:00	OCB	ER-II/Odisha/ROURKELA	Replacement of existing 50MVAR Bus Reactor by 125MVAR Bus Reactor for extension of 400KV Rourkela S/S under ERSS-IX Package.	
19	765/400KV ICT-1 at Angul	01/08/17	10:00	01/08/17	18:00	ODB	ER-II/Odisha/Angul SS	CSD commissioning at 400kV side of ICT.	NLDC
20	Main Bay-706 of 765/400KV ICT-II at Sundargarh	01/08/17	08:00	01/08/17	18:00	ODB	ER-II/Odisha/Sundergarh	AMP Work	NLDC
21	400KV Bus I at bolangir	01/08/17	08:00	07/08/17	18:00	ODB	ER-II/Odisha/BOLANGIR	BPI Erection and Stringing in Reactor Bay construction ERSS-XIV	
22	400KV Sundergarh-Raigarh-I	01/08/17	08:00	02/08/17	18:00	ODB	ER-II/Odisha/Sundergarh TLM	For replacement of Porcelain Insulator at various crossing span by CLR polymer (proposed crossing span 624-625 & 675-676)	NLDC
23	Auto Reclose to be kept in Manual mode400 KV Renglai Indravati Line	01/08/17	08:00	31/08/17	18:00	ODB	ER-II/Odisha/BOLANGIR	Fpr PID of 400 KV Rengali - Indravati Line, noPower Interruption of line will be there.	
24	132 KV Main bus at Baripada	01/08/17	09:00	03/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	Test of bus bar stability for commision of new bay	GRIDCO
25	400KV BARH-GORAKHPUR-I	01/08/17	08:00	03/08/17	20:00	OCB	DMTCL	LILO of both the circuits of 400kV Barh to Gorakhpur Transmission Line at Motihari GIS Sub-station	NLDC
26	132 kV LKR-LKR (BSPTCL) Line-1	02/08/17	10:00	02/08/17	14:00	ODB	ER-1 POWERGRID	AMP	Bihar
27	220 KV BUS -1 at MZF	02/08/17	09:00	03/08/17	18:00	ODB	ER-1 POWERGRID	Erection of BPI & IPS tube for GIS bay extension work at Muzaffarpur substation.	Bihar
28	400KV Kharagpur-Chaibasa#2	02/08/17	06:00	02/08/17	15:00	ODB	WB	PrePuja Bay Maintenance	
29	Main Bay-710 of 765KV Sundargarh-Angul Line-I at Sundargarh	02/08/17	08:00	02/08/17	18:00	ODB	ER-II/Odisha/Sundergarh	AMP Work	NLDC
30	765/400KV ICT-2 at Angul	02/08/17	10:00	02/08/17	18:00	ODB	ER-II/Odisha/Angul SS	CSD commissioning at 400kV side of ICT.	NLDC

31	315MVA ICT-I at Bolangir	02/08/17	08:00	31/08/17	18:00	OCB	ER-II/Odisha/BOLANGIR	Construction works of Firewall for Reactor package ERSS-XIV (on continuous basis)	GRIDCO
32	400Kv Sundargarh-Raigarh -II	02/08/17	09:00	20/08/17	18:00	OCB	ER-II/Odisha/Sundergarh TLM	Dismantling of Tower Loc 375 and erection of New Tower in place of NEW foundation and Stringing through Multi Ckt with 220kv Budhi Padhar Korba Line (Already approved in 134th OCC, in case of non availability the S/D will be taken in the month of Aug-17)	NLDC
33	400kV Bus-II at Rengali	02/08/17	09:00	02/08/17	17:00	ODB	ER-II/Rengali/Odisha	For connecting of Bus Bar Pipe of New 2 x 125 MVAR Bus Reactor Bay extension work at Rengali.	
34	400 KV Farakka-Berhampur	02/08/17	08:00	02/08/17	16:00	ODB	ER-II	Shut down required for insulator replacement damaged due to miscreants.	
35	500MVA ICT-I at Patna	03/08/17	08:00	03/08/17	18:00	ODB	ER-1 POWERGRID	Attending commissioning punch point & Pre-warranty Test	Bihar
36	BSF-Banka-1 main Bay No-428 AT BSF	03/08/17	10:00	07/08/17	18:00	OCB	ER-1 POWERGRID	CB Overhauling Work	
37	220 KV BUS-I at Gaya S/S	03/08/17	08:00	03/08/17	18:00	ODB	ER-1 POWERGRID	For KHIJARSARAI bay commissioning work	Bihar
38	400kV Bus-I at Rengali	03/08/17	09:00	03/08/17	17:00	ODB	ER-II/Rengali/Odisha	For connecting of Bus Bar Pipe of New 2 x 125 MVAR Bus Reactor Bay extension work at Rengali.	
39	315MVA ICT #3 at Baripada	03/08/17	09:00	01/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	CSD Commissioning,amp work & calibration of OTI&WTI	GRIDCO
40	765/400KV ICT-3 at Angul	03/08/17	10:00	03/08/17	18:00	ODB	ER-II/Odisha/Angul SS	Quarterly changeover of Spare phase ICT with ICT-3 & CSD commissioning at 400kV side of ICT.	NLDC
41	400 kV Bus-I at Jeypore	03/08/17	09:30	03/08/17	13:30	ODB	ER-II/Odisha/Jeypore	For Relay Testing after Retrofitting of BusBar Protection System (If Not available in the month of July 2017)	
42	400 kV Bus-II at Jeypore	03/08/17	14:00	03/08/17	18:00	ODB	ER-II/Odisha/Jeypore	For Relay Testing after Retrofitting of BusBar Protection System (If Not available in the month of July 2017)	
43	765 KV Bus-II at Sundargarh	03/08/17	08:00	05/08/17	18:00	OCB	ER-II/Odisha/Sundergarh	Extension of 4.5" Al Tube & stability checking for commissioning of 765KV Angul Line-3&4 main bay(713 & 716)for new bays construction work	NLDC
44	765 KV D/C Jharsuguda- Dharamjaygarh Transmission line (Ckt-I & II)	03/08/17	08:00	05/08/17	17:00	OCB	ER-II/Odisha/Sundergarh TLC	Swapping arrangement : Stringing work of 765KV Jharsuguda - Dharamjaygarh TL, Ckt-III & IV with Ckt-I & II	NLDC
45	400 KV MALDA-FARAKKA-I	03/08/17	08:00	05/08/17	16:00	ODB	ER-II	FOR BALANCE CONSTRUCTION PUNCH POINT	NLDC
46	400 KV MALDA-PURNEA-I	03/08/17	08:00	04/08/17	16:00	ODB	ER-II	For jumper tightness.	NLDC
47	400 KV BINAGURI-PURNEA-I	03/08/17	08:00	03/08/17	16:00	ODB	ER-II	For jumper tightness.	
48	315MVA ICT-II AT ALIPURDUAR	03/08/17	09:00	03/08/17	16:00	OCB	ER-II	TO ATTEND PROBLEM IN AIRCELL IN ICT	
49	Sagardighi - ICT#1 Tie bay (402)	03/08/17	08:00	05/08/17	17:30	OCB	ER-II	Yph Interrupter Unit repalcement for SF6 Leakage	West Bengal
50	400KV Malithon-Durgapur I&II	03/08/17	08:00	18/08/17	16:00	OCB	ER-II	Diversion of MD Line by M/S Suhara Power	
51	220 kV Patna -Sipara-1	04/08/17	10:00	05/08/17	18:00	ODB	ER-1 POWERGRID	Isolator alignment work & other AMP works	Bihar
52	132 kV LKR-LKR (BSPTCL) Line-2	04/08/17	10:00	04/08/17	14:00	ODB	ER-1 POWERGRID	AMP	Bihar
53	220 KV BUS-II at Gaya S/S	04/08/17	08:00	04/08/17	18:00	ODB	ER-1 POWERGRID	For KHIJARSARAI bay commissioning work	Bihar
54	Main Bay-403 of 765/400KV ICT-I at Sundargarh	04/08/17	08:00	31/07/17	18:00	ODB	ER-II/Odisha/Sundergarh	AMP Work	NLDC
55	220 kV Bus-I at Jeypore	04/08/17	09:30	04/08/17	13:30	ODB	ER-II/Odisha/Jeypore	For Relay Testing after Retrofitting of BusBar Protection System (If Not available in the month of July 2017)	GRIDCO
56	220 kV Bus-II at Jeypore	04/08/17	14:00	04/08/17	18:00	ODB	ER-II/Odisha/Jeypore	For Relay Testing after Retrofitting of BusBar Protection System (If Not available in the month of July 2017)	GRIDCO
57	765/400KV ICT-4 at Angul	04/08/17	10:00	04/08/17	18:00	ODB	ER-II/Odisha/Angul SS	CSD commissioning at 400kV side of ICT.	NLDC
58	400KV Rourkela-Sundergarh-II	04/08/17	08:00	04/08/17	18:00	ODB	ER-II/Odisha/Sundergarh TLM	For replacement of Porcelain Insulator at single crossing span (317-318) by CLR polymer	
59	63 MVAR L/R OF 400 KV BINAGURI-TALA-IV LINE	04/08/17	08:00	04/08/17	16:00	ODB	ER-II	Circuit breaker repalcement work ADD Cap	NLDC
60	400 KV BINAGURI-PURNEA-II	04/08/17	08:00	04/08/17	16:00	ODB	ER-II	For jumper tightness.	
61	400kv Farakka-Baharampur & 400kv Jeerat -Baharampur	05/08/17	06:00	06/08/17	15:00	ODB	WB	For stringing of conductor i.r.o. 400kv Gokarna-Sagardighi D/C	
62	160 MVA ICT#1 at Baripada	05/08/17	09:00	05/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	GRIDCO
63	400KV Rourkela-Sterlite-II	05/08/17	08:00	05/08/17	18:00	ODB	ER-II/Odisha/Sundergarh TLM	For replacement of Porcelain Insulator at single crossing span (317-318) by CLR polymer	GRIDCO
64	765kV, 80*3 MVAR Line Reactor-1 at Angul	05/08/17	08:00	05/08/17	18:00	ODB	ER-II/Odisha/Angul SS	For attending Oil Leakage problem under TBEA Punch Points.	NLDC
65	220KV OPTCL 2 Line	05/08/17	10:00	05/08/17	13:00	ODB	ER-II/Rengali/Odisha	For attending hotspot in Line isolator	GRIDCO
66	220 KV BINAGURI-BINAGURI-BUS SECTION-I	05/08/17	08:00	05/08/17	16:00	ODB	ER-II	AMP WORK.	West Bengal
67	132 KV MAIN BUS OF BIRPARA SS	05/08/17	08:00	05/08/17	16:00	OCB	ER-II	Circuit breaker repalcement work ADD Cap	West Bengal
68	220 KV BINAGURI-SILIGURI-II	05/08/17	08:00	05/08/17	16:00	ODB	ER-II	For providing insulation sleeves to low clearance area.	
69	400kv Kharagpur-Baripada line	06/08/17	06:00	06/08/17	15:00	ODB	WB	PrePuja Maintenance	
70	400 KV MALDA-FARAKKA-II	06/08/17	08:00	08/08/17	16:00	OCB	ER-II	FOR BALANCE CONSTRUCTION PUNCH POINT	NLDC
71	220 KV SILIGURI-KISHANGANJ-I	06/08/17	08:00	06/08/17	16:00	ODB	ER-II	FOR INSULATOR REPLACEMENT BALANCE WORK.	
72	400 KV MALDA-PURNEA-II	06/08/17	08:00	08/08/17	16:00	ODB	ER-II	For jumper tightness.	NLDC
73	400 KV Subhasgram- Jeerat Line	06/08/17	08:00	08/08/17	17:30	ODB	ER-II	PID test Insulator replacement work at Line	West Bengal
74	765/400 KV ICT-I at New Ranchi	07/08/17	08:00	12/08/17	18:00	ODB	ER-1 POWERGRID	Erection of Gantry tower under STATCOM project	NLDC

75	200 MVA ICT-1 AT LAKHISARAI	07/08/17	08:00	08/08/17	18:00	ODB	ER-1 POWERGRID	Checking of Air Cell.	Bihar
76	TIE BAY OF 400KV KISHANGANJ-II & MUZ-I (BAY NO-411)	07/08/17	10:00	09/08/17	18:00	OCB	ER-1 POWERGRID	CB Operating Mech.Overhauling	
77	125MVAR B/R - UIHEP Tie Bay (411) at Indravati	07/08/17	09:00	07/08/17	16:00	ODB	ER-II/Odisha/Indravati	Installation of CSD & online testing in Tie CB	
78	ICT-I (3x 105 MVA) at Jeypore	07/08/17	10:30	07/08/17	11:30	ODB	ER-II/Odisha/Jeypore	For changing ICT-I combination form Unit-I,II,III, to Unit-II , III & IV for charging Unit-IV after Oil Refilling Works due to H2 violation	GRIDCO
79	315MVA ICT#1 at Rourkela	07/08/17	09:00	11/08/17	18:00	OCB	ER-II/Odisha/ROURKELA	For attending the oil mix up problem of OLTC in 315 MVA ICT#1 and to arrest oil leakage problem from tan delta test tap assemblies of its bushings.	GRIDCO
80	765 KV Bus-I at Sundargarh	07/08/17	08:00	08/08/17	18:00	OCB	ER-II/Odisha/Sundergarh	Changing of Bus CVT connectors to reduce the load of CVT under system improvement scheme and checking of Bus bar stability.	NLDC
81	765 KV D/C Jharsuguda - Dharamjaygarh trans line (CKT - I & II, Both Ckts together)	07/08/17	08:00	09/08/17	17:00	OCB	ER-II/Odisha /Sundergarh TLC	for swapping arrangement of Ckt- III & IV (2 nd transmission line)(Already approved in 134th OCC, in case of non availability the S/D will be taken in the month of Aug-17)	NLDC
82	220 KV SILIGURI-KISHANGANJ-II	07/08/17	08:00	07/08/17	16:00	ODB	ER-II	FOR INSULATOR REPLACEMENT BALANCE WORK.	
83	220 kV Patna -Sipara-2	08/08/17	10:00	09/08/17	18:00	ODB	ER-1 POWERGRID	Isolator alignment work & other AMP works	Bihar
84	Banka-1 & 2 Tie Bay No.-429 AT BSF	08/08/17	10:00	12/08/17	18:00	OCB	ER-1 POWERGRID	CB Overhauling Work	
85	400kV East Side Main Bus @ Pusauli	08/08/17	0900	08/08/17	1800	ODB	ER-I	AMP	
86	220 kV Jeypore-Jayanagar-2 Line	08/08/17	09:30	08/08/17	15:30	ODB	ER-II/Odisha/Jeypore	For Changing B-Ph CVT of Jayanagar-II Line due to Oil Leakage (If Not available in the month of July 2017)	GRIDCO
87	765kV Main Bus-I at Angul	08/08/17	08:00	09/08/17	18:00	OCB	ER-II/Odisha/Angul SS	Checking of Bus-bar Stability of 765kV Angul-Sundargarh Line-3&4 for connection with existing system under Construction Head.	NLDC
88	160 MVA ICT #2 at Baripada	08/08/17	09:00	08/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	GRIDCO
89	400KV Bus II at bolangir	08/08/17	08:00	14/08/17	18:00	ODB	ER-II/Odisha/BOLANGIR	BPI Erection and Stringing in Reactor Bay construction ERSS-XIV	
90	400KV ROURKELA-SUNDARGARH#2	08/08/17	09:00	08/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	Insulator replacement at Location No.- 7 & 236. (Already approved in 134th OCC, in case of non availability the S/D will be taken in the month of Aug-17)	
91	500MVA ICT-I at MTN	08/08/17	08:00	08/08/17	16:00	ODB	ER-II	Erection of LM Tower near 500MVA ICT, Erection of CB, CT for tertiary transformer	DVC
92	220kV NSLG-BRP Ckt-II	08/08/17	08:00	08/08/17	16:00	ODB	ER-II	Relay retrofitting / AMP / hot spot rectification in WT	
93	200MVA ICT-1 AT BANKA	09/08/17	10:00	09/08/17	18:00	ODB	ER-1 POWERGRID	Providing insulation sleeves on tertiary conductor	Bihar
94	400 KV BUS-I at Gaya S/S	09/08/17	08:00	09/08/17	18:00	ODB	ER-1 POWERGRID	Bay extension work for Gaya Navinagar Line	
95	At KGP:315MVA TR#1	09/08/17	06:00	09/08/17	15:00	ODB	WB	PrePuja Maintenance	
96	400KV Bus-1 (Connected line -Jeypore Line and UIHEP Line) at Indravati	09/08/17	09:00	09/08/17	18:00	ODB	ER-II/Odisha/Indravati	For retrofitting of Bus Bar Protection panel at Indravati ss.	
97	Tie Bay-711 of 765KV Sundargarh-Angul Line-I at Sundargarh	09/08/17	08:00	09/08/17	16:00	ODB	ER-II/Odisha/Sundergarh	Polymer anchoring in Jack Bus side Isolator under system improvement scheme	NLDC
98	400 KB Rourkela-Sterlite-II & Rourkela - Sundargarh- II (both circuits together)	09/08/17	08:00	10/08/17	17:00	OCB	ER-II/Odisha/Sundergarh TLC	Stringing work of 765KV Angul-Jharsuguda D/C (Ckt- III & IV) transmission line	GRIDCO
99	132 KV Main Bus at Birpara	09/08/17	08:00	09/08/17	16:00	ODB	ER-II	FOR CONSTRUCTION WORK UNDER ERSS-XIV.	West Bengal
100	400 KV BSF - Varanasi Ckt. I	09/08/17	07:00	09/08/17	18:00		POWERGRID ER-I	For replacement of porcelain insulator at polymer.	NLDC
101	220 kV Patna-Khagaul	10/08/17	10:00	11/08/17	18:00	ODB	ER-1 POWERGRID	Isolator alignment work & other AMP works	Bihar
102	200 MVA ICT-2 AT LAKHISARAI	10/08/17	08:00	11/08/17	18:00	ODB	ER-1 POWERGRID	Checking of Air Cell.	Bihar
103	200MVA ICT-2 AT BANKA	10/08/17	10:00	10/08/17	12:00	ODB	ER-1 POWERGRID	Providing insulation sleeves on tertiary bushing	Bihar
104	Jsr- Mejia line	10/08/17	14:30	10/08/17	18:30	ODB	ER-1 POWERGRID	Mejia Main Bay CB (40652) Replacement work	DVC
105	406 Bay (Mejia Main bay) AT JSR	10/08/17	09:30	15/08/17	17:30	OCB	ER-1 POWERGRID	Mejia Main Bay CB (40652) Replacement work	
106	400 KV BUS-II at Gaya S/S	10/08/17	08:00	10/08/17	18:00	ODB	ER-1 POWERGRID	Bay extension work for Gaya Navinagar Line	
107	MAIN BAY OF KISHANGANJ-I (BAY NO-407)	10/08/17	10:00	12/08/17	18:00	OCB	ER-1 POWERGRID	CB Operating Mech.Overhauling	
108	North Side HVDC Filter CWC15Q50 @ Pusauli	10/08/17	0900	10/08/17	1800	ODB	ER-I	AMP	NLDC
109	At KGP:315MVA TR#2	10/08/17	06:00	10/08/17	15:00	ODB	WB	PrePuja Maintenance	
110	400KV ROURKELA-SEL#2	10/08/17	09:00	10/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	Insulator replacement at Location No.- 57 & rectification of bundle spacer in span 195-196.(Already approved in 134th OCC, in case of non availability the S/D will be taken in the month of Aug-17)	GRIDCO
111	401 BAY(keonjhar line main bay) at Baripada	10/08/17	09:00	10/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	SF6 Gas leakage rectification	
112	765KV 240 MVAR Bus reactor-II at Sundargarh	10/08/17	08:00	10/08/17	13:00	ODB	ER-II/Odisha/Sundergarh	Shifting of spare Reactor to B-Ph reactor of 765KV B/R-II after attending oil leakage of the Reactor.	NLDC
113	765kV Main Bus-II at Angul	10/08/17	08:00	11/08/17	18:00	OCB	ER-II/Odisha/Angul SS	Checking of Bus-bar Stability of 765kV Angul-Sundargarh Line-3&4 for connection with existing system under Construction Head.	NLDC
114	400KV ROURKELA-TALCHER#2	10/08/17	09:00	12/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	Replacement of insulators at different locations.	

115	400KV Talcher -II ine	10/08/17	10:00	10/08/17	12:00	ODB	ER-II/Rengali/Odisha	For attending hotspot in Line isolator	
116	400kv MALDA-NEW PURNEA-I	10/08/17	08:00	10/08/17	16:00	ODB	ER-II	Insulator change due to damage by miscreant, Jumper tightness work	NLDC
117	400kv Bus-II at Binaguri	10/08/17	08:00	10/08/17	16:00	ODB	ER-II	AMP / Isolator hot spot rectification	
118	400 KV Sagardighi-Parulia-1	10/08/17	08:00	10/08/17	16:00	ODB	ER-II	For correction of idenfied defects.	West Bengal
119	132kv Siliguri-Kurseong	10/08/17	08:00	14/08/17	16:00	ODB	ER-II	Insulator replacement work	West Bengal
120	80Mvar Reeactor Bay (403R)	10/08/17	08:00	10/08/17	16:00	ODB	ER-II	Rectification of LA position	
121	400KV Fkk-Kahalgao Line-1	10/08/17	09:30	11/08/17	17:30	OCB	FARAKKA	CVT replacement	
122	400KV ROURKELA-RAIGARH – II(DIRECT)	10/08/17	08:00	10/08/17	18:00	ODB	VEDANTA LTD	TO MAKE DIRECT BY REMOVING JUMPERS	NLDC
123	400 KV BSF - Varanasi Ckt. II	10/08/17	07:00	10/08/17	18:00		POWERGRID ER-I	For replacement of porcelain insulator at polymer.	NLDC
124	400KV Bus-2 (Connected line -Rengali Line and 125MVAR Bus reactor) at Indravati	11/08/17	09:00	11/08/17	18:00	ODB	ER-II/Odisha/Indravati	For retrofitting of Bus Bar Protection panel at Indravati ss.	
125	765KV 240 MVAR Bus reactor-I at Sundargarh	11/08/17	08:00	11/08/17	13:00	ODB	ER-II/Odisha/Sundergarh	To attend oil leakage in Y-Ph Reactor.	NLDC
126	400 KV Sagardighi-Parulia-2	11/08/17	08:00	11/08/17	16:00	ODB	ER-II	For correction of idenfied defects.	West Bengal
127	400 KV Jeerat- Baharampur Line	11/08/17	08:00	11/08/17	17:30	ODB	ER-II	For increasing CT Ratio as requested by SLDC (WBSETCL Jeerat)	West Bengal
128	132 KV WBSETCL# 1 AT MALDA	11/08/17	08:00	11/08/17	16:00	ODB	ER-II	FOR ISOLATOR REPLACEMENT WORK	West Bengal
129	80 MVAR Bus Reactor AT LAKHISARAI	12/08/17	08:00	13/08/17	18:00	ODB	ER-1 POWERGRID	For checking/rectification of alignment of Bus Reactor Isolator	
130	Jsr- Mejia line	12/08/17	09:30	12/08/17	13:30	4 hrs	ER-1 POWERGRID	Main bay CB 40652 CB Replacement work	DVC
131	400KV BUS-II AT CHAIBASA	12/08/17	08:00	12/08/17	17:00	ODB	ER-1 POWERGRID	Bay Extension work under ERSS-XIV	
132	132KV D/C Lalmatia – Sahibganj (JUSNL) Tr. Line	12/08/17	08:00	13/08/17	16:00	ODB	ER-1 POWERGRID	Stringing of 400KV D/c Rajarhat Purnea Line	JUSNL
133	At KGP:315MVA TR#3	12/08/17	06:00	12/08/17	15:00	ODB	WB	PrePuja Maintenance	
134	80MVAR Switchable LR at 400kv Angul-Meramundali-1 at Meramundali SS	12/08/17	08:00	12/08/17	18:00	ODB	ER-II/Odisha/Angul SS	For attending Oil Leakage problem.	GRIDCO
135	210 BAY(220kv side 160MVA ICT#1) at Baripada	12/08/17	09:00	12/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	
136	132 KV BIRPARA-BIRPARA-II	12/08/17	08:00	12/08/17	16:00	ODB	ER-II	AMP WORK.	West Bengal
137	500MVA ICT-I at MTN	12/08/17	08:00	12/08/17	16:00	ODB	ER-II	Erection of LM Tower near 500MVA ICT, Erection of CB, CT for tertiary transformer	DVC
138	132kv Kurseong - Rangit	12/08/17	08:00	16/08/17	16:00	ODB	ER-II	Insulator replacement work	West Bengal
139	400KV JEERAT-BERHAMPORE LINE	12/08/17	08:00	12/08/17	16:00	ODB	ER-II	For increasing CT Ratio as requested by SLDC (WBSETCL Jeerat)	West Bengal
140	315MVA, ICT-2 at Maithon SS	12/08/17	08:00	12/08/17	16:00	ODB	ER-II	Replacement of Y ph LA of 400kv side	DVC
141	400 KV Jeerat-Subhasgram	12/08/17	08:00	12/08/17	16:00	ODB	ER-II	Shut down required for insulator replacement damaged due to miscreants.	West Bengal
142	125 MVAR Bus reactor-I at Maithan	12/08/17	10:00	12/08/17	17:30	ODB	ER-II	Oil leakage arresting of reactor and construction of Fire wall	
143	500MVA ICT-I at MTN	13/08/17	08:00	13/08/17	16:00	ODB	ER-II	Erection of LM Tower near 500MVA ICT, Erection of CB, CT for tertiary transformer	DVC
144	400kv Subhasgram- Sagardighi Line	13/08/17	08:00	15/08/17	17:30	ODB	ER-II	PID test Insulator replacement work at Line	West Bengal
145	220 kv Kalyaneswari-2	13/08/17	08:00	13/08/17	16:00	ODB	ER-II	Replacement of B-Ph CVT	DVC
146	400 KV Sagardighi-Subhasgram	13/08/17	08:00	13/08/17	16:00	ODB	ER-II	Shut down required for insulator replacement damaged due to miscreants.	West Bengal
147	160 MVA ICT#1 AT PURNEA	14/08/17	09:00	15/08/17	16:00	OCB	ER-1 POWERGRID	GIS CONSTRUCTION WORK	Bihar
148	BSF-Banka-2 main Bay No-430 AT BANKA	14/08/17	10:00	19/08/17	18:00	OCB	ER-1 POWERGRID	CB Overhauling Work	
149	400/220KV, 315MVA ICT-1 AT JSR	14/08/17	09:30	14/08/17	17:30	8 hrs	ER-1 POWERGRID	Differential relay replacement work + CT oilsampling work	JUSNL
150	400 KV BUS -2 AT MUZ	14/08/17	09:00	14/08/17	18:00	ODB	ER-1 POWERGRID	STABILITY TEST OF DARBHANGA LINE -1	
151	At KGP:80MVAR Bus Reactor	14/08/17	06:00	14/08/17	15:00	ODB	WB	PrePuja Maintenance	
152	104 BAY(132kv side 160MVA ICT#1) at Baripada	14/08/17	09:00	14/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	
153	400 kv Jeypore-Gajuwaka-I Line	14/08/17	09:30	14/08/17	13:30	ODB	ER-II/Odisha/Jeypore	For Relay testing after Retrofitting of Main-II Relay of Gajuwaka-I Line (If Not completed in the month of July 2017)	NLDC
154	400 kv Jeypore-Gajuwaka-II Line	14/08/17	13:30	14/08/17	17:30	ODB	ER-II/Odisha/Jeypore	For Relay testing after Retrofitting of Main-II Relay of Gajuwaka-II Line (If Not completed in the month of July 2017)	NLDC
155	400 KV ROURKELA-CHAIBASA#1	14/08/17	09:00	14/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	
156	400kv Bus-II at Rengali	14/08/17	09:00	14/08/17	17:00	ODB	ER-II/Rengali/Odisha	For Relay Testing after Retrofitting of BusBar Protection System at Rengali.	
157	220 KV BINAGURI-BINAGURI-BUS SECTION-II	14/08/17	08:00	14/08/17	16:00	OCB	ER-II	AMP WORK.	West Bengal
158	400 KV BINAGURI-KISHANGANJ-I	14/08/17	08:00	14/08/17	16:00	ODB	ER-II	For jumper tightness. (LILO PORTION).	
159	400 KV Maithon-Kalelgoan I&II	14/08/17	08:00	14/08/17	16:00	ODB	ER-II	Insulator Replacement at MD Line	
160	400kv Maithon-Ranchi	14/08/17	08:00	14/08/17	16:00	ODB	ER-II	Insulator Replacement at MD Line	
161	400 KV PPSP-DURGAPUR	14/08/17	08:00	14/08/17	16:00	ODB	ER-II	Insulator Replacement at MD Line	West Bengal

162	132kV Melli-Rangit	14/08/17	08:00	18/08/17	16:00	ODB	ER-II	Insulator replacement work	Sikkim
163	125 MVAR Bus reactor-II at Maithan	14/08/17	10:00	14/08/17	17:30	ODB	ER-II	Oil leakage arresting work of reactor	
164	400kV Bus-I at Rengali	15/08/17	09:00	15/08/17	14:00	ODB	ER-II/Rengali/Odisha	For Relay Testing after Retrofitting of BusBar Protection System at Rengali	
165	132 KV BIRPARA-BIRPARA-I	15/08/17	08:00	15/08/17	16:00	OCB	ER-II	AMP WORK.	West Bengal
166	400 KV BINAGURI-KISHANGANJ-II	15/08/17	08:00	15/08/17	16:00	ODB	ER-II	For jumper tightness. (LILO PORTION).	
167	220kv Maithon-Dumka I&II	15/08/17	08:00	15/08/17	16:00	ODB	ER-II	Insulator Replacement at MD Line	JSEB
168	400kV NSLG-Tala Ckt-1	15/08/17	08:00	15/08/17	16:00	ODB	ER-II	Insulator replacement in crossings	NLDC
169	400 KV BERHAMPUR-BHERAMA-I	15/08/17	08:00	15/08/17	16:00	ODB	ER-II	PLCC COMMUNICATION CHECKING (FOX-515 MODULE) THROUGH OEM.	NLDC
170	400kV Bus-I at Binaguri	15/08/17	08:00	15/08/17	16:00	ODB	ER-II	To facilitate hot spot rectification in Purnea-3 & 4 Line and Rangpo-1 & 2 Line	
171	132 KV PURNEA - PURNEA BSPTCL#3 LINE	16/08/17	09:00	31/08/17	16:00	OCB	ER-1 POWERGRID	GIS CONSTRUCTION WORK	Bihar
172	132 KV PURNEA - KISHANGANJ(BSPTCL) LINE	16/08/17	09:00	31/08/17	16:00	OCB	ER-1 POWERGRID	GIS CONSTRUCTION WORK	Bihar
173	160 MVA ICT#2 AT PURNEA	16/08/17	09:00	31/08/17	16:00	OCB	ER-1 POWERGRID	GIS CONSTRUCTION WORK	Bihar
174	200 MVA ICT-2 & 80 MVAR Bus Reactor AT LAKHISARAI	16/08/17	08:00	19/08/17	18:00	ODB	ER-1 POWERGRID	Fire wall Construction.	Bihar
175	400 KV MUZ-DARBHANGA LINE-2	16/08/17	09:00	16/08/17	18:00	ODB	ER-1 POWERGRID	FOR ATTENDING MISALIGNMENT OF LINE ISOLATOR	
176	400KV MAIN BUS -II	16/08/17	10:00	16/08/17	18:00	ODB	ER-1 POWERGRID	AMP	
177	400KV ROURKELA-CHAIBASA#1 L/R BAY AT ROURKELA(BAY NO.-416LR).	16/08/17	09:00	16/08/17	14:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	
178	400kV Angul-Bolangir Line.	16/08/17	08:00	16/08/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation work	NLDC
179	400 KV Indravati-Jeypore Main Bay at Indravati	16/08/17	09:00	20/08/17	18:00	OCB	ER-II/Odisha/Indravati	Overhauling of Main Bay (401) CB Mechanism	
180	406 BAY (315MVA ICT#2 main bay) at Baripada	16/08/17	09:00	16/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	
181	400KV ROURKELA-TALCHER#2	16/08/17	09:00	18/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	Replacement of insulators at locations 281, 362, 452, 343 , 261, 429, 430, 443.(Already approved in 134th OCC, in case of non availability the S/D will be taken in the month of Aug-17)	
182	400 KV Rengali Indravati Line (Rescheduled Shutdown proposal, already approved in 134th OCC)	16/08/17	07:00	26/08/17	18:00	ODB	ER-II/Odisha /Bolangir	(Already approved in 134th OCC, in case of non availability the S/D will be taken in the month of Aug-17) Replacement of Porcelain insulators with Polymer insulators in major crossings at Locations 1121-1122,929-930,773-774,931-932,1078-1079,1081-1082,913-914,1036-1037,1061-1062,1074-1075,1090-1091-1092. (It is incuded both Rengali portion i.e 931-1124 and Kishorenagar portion i.e 754-930) Bolangir- 538,539,564,565,590,591,676,677,681,682,741,742,743,747,748,749,750,751,752,753 Bhawanaipatna-201, 202, 247, 248, 258, 259, 333, 334, 338, 339,355, 356, 374, 375, 386, 387, 392, 393, 423, 424, 435, 436, 455, 456, 511, 512 & 538 (Total 27 nos towers)	NLDC
183	400kv MTN Mejia-I line	16/08/17	08:00	16/08/17	16:00	ODB	ER-II	AMP & Tie CT replacement work	DVC
184	220kV Birpara-Salakati-I	16/08/17	08:00	16/08/17	16:00	ODB	ER-II	AMP work	NLDC
185	220 KV BIRPARA-ALIPURDUAR-II	16/08/17	08:00	16/08/17	16:00	ODB	ER-II	FOR DROPPER CONNECTION OF 220 KV GANTRY TO WBSETCL LINE.	
186	400KV Maithon-Jamshedpur	16/08/17	08:00	16/08/17	16:00	ODB	ER-II	Insulator Replacement at MD Line	
187	400KV Berhampore Bheramara Ckt-I Line(404 bay)	16/08/17	08:00	16/08/17	16:00	ODB	ER-II	Replacement of Line isolator PAD (89L)and fixing of isolator alingment.	NLDC
188	220 kV Ptana-Fatuha	17/08/17	10:00	18/08/17	18:00	ODB	ER-1 POWERGRID	Isolator alignment work & other AMP works	Bihar
189	400 kV Patna- Barh-1	17/08/17	08:00	18/08/17	18:00	ODB	ER-1 POWERGRID	For replacement of porcelain insulator awith polymer insulator.	

190	765 KV New Ranchi - DMG Circuit-2	17/08/17	09:00	17/08/17	18:00	ODB	ER-1 POWERGRID	For replacement of porcelain insulator with polymer insulator.	NLDC
191	400 KV BSF - BALIA Ckt. I	17/08/17	08:00	17/08/17	18:00		POWERGRID ER-I	For replacement of porcelain insulator at polymer.	NLDC
192	765 KV GAYA-BALLIA LINE Reactor	17/08/17	08:00	17/08/17	18:00	ODB	ER-1 POWERGRID	HVV Spray system final commissioning and Testing work	NLDC
193	East Side HVDC Filter CWC54Q50 @ Pusauli	17/08/17	0900	17/08/17	1800	ODB	ER-I	AMP	
194	765kV Angul-Srikakulam Line-1	17/08/17	08:00	17/08/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation work (In case non-availability of the S/D in July'17, it will be taken in the month of Aug-17)	NLDC
195	765kV, 80*3 MVAR Srikakulam Line Reactor-1 at Angul	17/08/17	08:00	17/08/17	18:00	ODB	ER-II/Odisha/Angul SS	For commissioning of Spare Reactor with Line Reactor-1 under construction head.	NLDC
196	400 kV Jeypore-Indravati S/C Line	17/08/17	06:00	18/08/17	18:00	ODB	ER-II/Odisha/Jeypore	For Replacement of PID Defective Insulators in Jey-Ivt Line (If Not available in the month of June 2017) at Locations Loc.No. 27,34,48,71,107,109,111,121, 124,125,126,127,128,129,130, 131,135,139,144,145,147,148. of (7 tension towers replacement of 8 nos Double Strings) & (15 Suspension towers replacement of 20 nos.Single Strings). (If Not available in the month of July 2017)	NLDC
197	400KV ROURKELA-TALCHER#1 MAIN BAY (BAY NO.-406) at Rourkela	17/08/17	09:00	17/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	
198	400KV Bus-I at Sundargarh	17/08/17	08:00	19/08/17	18:00	OCB	ER-II/Odisha/Sundergarh	Extension of Bus bar for GIS extn work under construction head.	
199	220kV Bus-I at Rengali	17/08/17	09:00	17/08/17	14:00	ODB	ER-II/Rengali/Odisha	For Relay Testing after Retrofitting of BusBar Protection System at Rengali	NLDC
200	400KV Fkk-Kahalgaon Line-2	17/08/17	09:30	17/08/17	17:30	ODB	FARAKKA	CVT replacement	
201	400 KV BSF - BALIA Ckt. II	18/08/17	08:00	18/08/17	18:00		POWERGRID ER-I	For replacement of porcelain insulator at polymer.	NLDC
202	400/220kV, 315MVA ICT-2 AT JSR	18/08/17	14:30	18/08/17	18:30	4 hrs	ER-1 POWERGRID	ICT-2 Main Bay CB (40352) Replacement work+ Differential relay replacement work	JUSNL
203	Main Bay (403) 315MVA ICT-2 AT JSR	18/08/17	09:30	24/08/17	17:30	OCB	ER-1 POWERGRID	ICT-2 Main Bay CB (40352) Replacement work	
204	765 KV GAYA-VNS-II LINE Reactor	18/08/17	08:00	18/08/17	18:00	ODB	ER-1 POWERGRID	HVV Spray system final commissioning and Testing work	NLDC
205	500MVA ICT#1	18/08/17	10:00	18/08/17	18:00	ODB	ER-1 POWERGRID	insulating sleeve in tertiary and other AMP works	
206	400KV KGP-KTTP#1	18/08/17	06:00	18/08/17	15:00	ODB	WB	PrePuja Maintenance	
207	220kV Bus-II at Rengali	18/08/17	09:00	18/08/17	14:00	ODB	ER-II/Rengali/Odisha	For Relay Testing after Retrofitting of BusBar Protection System at Rengali	NLDC
208	765 KV Angul-Srikakulam TL CKT-II	18/08/17	07:00	19/08/17	17:00	ODB	ER-II/Odisha /Berhampur	Replacement of Glass Insulators by Long Rod Polymer Insulators at loc no. 681, 715, 722,723, 727 and 728. (Already approved in 134th OCC, in case of non availability, the S/D will be taken in the month of Aug-17)	NLDC
209	400KV ROURKELA-TALCHER#1 TIE BAY (BAY NO. - 405) at Rourkela	18/08/17	09:00	18/08/17	16:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	
210	220 kV Jeypore-Jayanagar-I Line	18/08/17	09:30	18/08/17	17:30	ODB	ER-II/Odisha/Jeypore	For Changing R & Y-Ph CT of Jayanagar-I Line due to H2 Violation (If Not available in the month of July 2017)	GRIDCO
211	765kV, 80*3 MVAR Srikakulam Line Reactor-2 at Angul	18/08/17	08:00	18/08/17	18:00	ODB	ER-II/Odisha/Angul SS	For commissioning of Spare Reactor with Line Reactor-2 under construction head.	NLDC
212	765kV Angul-Srikakulam Line-2	18/08/17	08:00	18/08/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation Work	NLDC
213	403 BAY(315MVA ICT#1 main bay) at Baripada	18/08/17	09:00	18/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	
214	132 KV TBC BAY AT MALDA	18/08/17	08:00	18/08/17	16:00	ODB	ER-II	FOR ISOLATOR REPLACEMENT WORK	West Bengal
215	220 KV MAIN BUS-II AT DALKHOLA	18/08/17	08:00	18/08/17	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	West Bengal
216	400 KV BERHAMPUR-BHERAMA-II	18/08/17	08:00	18/08/17	16:00	ODB	ER-II	PLCC COMMUNICATION CHECKING (FOX-515 MODULE) THROUGH OEM.	NLDC
217	400kV Tala Ckt-I	18/08/17	08:00	18/08/17	16:00	ODB	ER-II	Relay retrofitting	NLDC
218	400KV Fkk-Malda Line-1	18/08/17	09:30	19/08/17	17:30	ODB	FARAKKA	CB & Relay testing	NLDC
219	765 KV GAYA-VNS-II LINE	19/08/17	08:00	19/08/17	18:00	ODB	ER-1 POWERGRID	Replacement of damaged Insulator	NLDC
220	500MVA ICT#2	19/08/17	10:00	19/08/17	18:00	ODB	ER-1 POWERGRID	insulating sleeve in tertiary and other AMP works	
221	220KV D/C Farakka-Lalmatia Tr. Line	19/08/17	08/00	20/08/17	16:00	ODB	ER-1 POWERGRID	Stringing of 400KV D/c Rajarhat Purnea Line	JUSNL
222	North Side HVDC Filter CWC14Q50 @ Pusauli	19/08/17	0900	19/08/17	1800	ODB	ER-I	AMP	NLDC
223	408 BAY(dubari & jamshedpur line tie bay) at Baripada	19/08/17	09:00	19/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	
224	400KV ROURKELA-TALCHER#2 MAIN BAY (BAY NO. - 407) at Rourkela	19/08/17	09:00	19/08/17	14:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	
225	765kV Angul-Sundargarh Line-1	19/08/17	08:00	19/08/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability. And NTAMC Validation work	NLDC
226	220kV S'gram-CESC-Ckt _I	19/08/17	08:00	19/08/17	16:00	ODB	ER-II	AMP	West Bengal

227	400kV MTN Mejia-1 line	19/08/17	08:00	19/08/17	16:00	ODB	ER-II	AMP & Tie CT replacement work	DVC
228	400kV D/C Sagardighi-Parulia	19/08/17	08:00	19/08/17	16:00	ODB	ER-II	AMP Works	West Bengal
229	132kV Rangpo-Melli	19/08/17	08:00	23/08/17	16:00	ODB	ER-II	Insulator replacement work	Sikkim
230	132kV Rangpo-Gangtok	19/08/17	08:00	21/08/17	16:00	ODB	ER-II	Insulator replacement work	Sikkim
231	Tie bay of S'gram-S'dighi & ICT-I (402) at Subhasgram	19/08/17	08:00	19/08/17	16:00	ODB	ER-II	Y-phase interrupter unit replacement for SF6 leakage	West Bengal
232	400/220kV, 315MVA ICT-2 AT JSR	20/08/17	09:30	20/08/17	13:30	4 hrs	ER-1 POWERGRID	ICT-2 Main Bay CB (40352) Replacement work	JUSNL
233	220kV S'gram-KLC Bantala Line	20/08/17	08:00	20/08/17	17:30	ODB	ER-II	AMP	West Bengal
234	220kV Birpara-Chukha-II	20/08/17	08:00	20/08/17	16:00	ODB	ER-II	AMP work	NLDC
235	400KV Berhampore Sagardighi Ckt-II Main Bay(409 bay)	20/08/17	08:00	20/08/17	16:00	ODB	ER-II	Fixing of SCADA operation of CB	
236	132 KV RANGPO-RANGIT	20/08/17	08:00	20/08/17	16:00	ODB	ER-II	FOR AMP WORK	
237	400kV NSLG-Tala Ckt-4	20/08/17	08:00	20/08/17	16:00	ODB	ER-II	Insulator replacement in crossings	NLDC
238	400KV Farakka-Durgapur Ckt-2	20/08/17	08:00	20/08/17	16:00	ODB	ER-II	Replacement of defctive Insulator string having defective disc >=3 (as per PID test results) and replacement of porcelen insulator string with glass string at major crossing	
239	220KV Ranchi Chandil-I	21/08/17	10:00	21/08/17	17:00	ODB	ER-1 POWERGRID	For attending hot spot at 20289L Rph	JUSNL
240	ICT-3 Main bay no.-410 AT BSF	21/08/17	10:00	25/08/17	18:00	OCB	ER-1 POWERGRID	CB Overhauling Work	
241	500 MVA ICT-3 AT MUZ	21/08/17	09:00	26/08/17	18:00	OCB	ER-1 POWERGRID	REPLACEMENT OF GASKET/ORINGS OF ALL TURRET BUSHINGS FOR ARRESTING LEAKAGE & ATTENDING COMMISSIONING PUNCH POINT. LOAD TO BE RESTRICTED ON OTHER ICTs.	Bihar
242	765 KV Angul-Srikakulam TL CKT-I	21/08/17	07:00	22/08/17	17:00	ODB	ER-II/Odisha /Berhampur	Replacement of Glass Insulatos by Long Rod Polymer Insulators at loc no. 681, 715, 722,723, 727 and 728.(Already approved in 134th OCC, in case of non availability the S/D will be taken in the month of Aug-17)	NLDC
243	765kV Angul-Sundargarh Line-2	21/08/17	08:00	21/08/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation Work	NLDC
244	400KV SUNDARGARH#2-RANCHI#1 TIE BAY (BAY NO.- 429) at Rourkela	21/08/17	09:00	21/08/17	16:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	
245	400 KV Indravati-Jeypore Tie Bay at Indravati	21/08/17	09:00	25/08/17	18:00	OCB	ER-II/Odisha/Indravati	Overhauling of Tie Bay (402) CB Mechanism	
246	400KV Bus-II at Sundargarh	21/08/17	08:00	23/08/17	18:00	OCB	ER-II/Odisha/Sundergarh	Extension of Bus bar for GIS extn work under construction head.	
247	410 BAY(pandiabilili line main bay) at Baripada	21/08/17	09:00	21/08/17	17:30	ODB	ER-II/Odisha/BARIPADA S/S	AMP work	
248	132kV Rangpo-Rangit	21/08/17	08:00	23/08/17	16:00	ODB	ER-II	Insulator replacement work	
249	400 kV Patna-Barh-2	22/08/17	08:00	23/08/17	18:00	ODB	ER-1 POWERGRID	For replacement of porcelain insulator awith polymer insulator.	
250	400 kV LKR-BSF Line-2	22/08/17	08:00	22/08/17	18:00	ODB	ER-1 POWERGRID	For Jumper Modification	
251	220 KV GAYA -SONENAGAR -I LINE	22/08/17	10:00	22/08/17	14:00	ODB	ER-1 POWERGRID	Replcement of GD from CB	Bihar
252	132kV Dehri -Pusali	22/08/17	0900	22/08/17	1800	ODB	ER-I	AMP	Bihar
253	400KV KGP-KTPP#2	22/08/17	06:00	22/08/17	15:00	ODB	WB	PrePuja Maintenance	
254	400kV Angul-Meramundali Line-1	22/08/17	08:00	22/08/17	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation work	GRIDCO
255	220KV BUS-I at Rourkela	22/08/17	09:00	22/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	GRIDCO
256	220 KV MALDA-DALKHOLA-I	22/08/17	08:00	22/08/17	16:00	ODB	ER-II	AMP works	
257	400KV Berhampore Farakka Bay (406)	22/08/17	08:00	22/08/17	16:00	ODB	ER-II	Attending leakage of Circuit Breaker	
258	400KV Berhampore Sagardighi Ckt-II Tie Bay(410 bay)	22/08/17	08:00	22/08/17	16:00	ODB	ER-II	Fixing of SCADA operation of CB	
259	132kV Siliguri - Melli	22/08/17	08:00	25/08/17	16:00	ODB	ER-II	Insulator replacement work	Sikkim
260	400KV/132KV ICT#1 at KhSTPP	22/08/17	09:30	26/08/17	17:30	OCB	KAHALGAON	CT replacemrnt and Relay Retrofitting	Bihar
261	400KV Fkk-Malda Line-2	22/08/17	09:30	23/08/17	17:30	ODB	FARAKKA	CB & relay testing	NLDC
262	220KV Bus-I AT RANCHI	22/08/17	10:00	23/08/17	17:00	ODB	ER-1 POWERGRID	For attending hot spot at 20589A Rph & Bph(220KV Side of ICT-I)	JUSNL
263	400 KV BSF - MUZ Ckt. I	23/08/17	08:00	23/08/17	18:00		POWERGRID ER-I	For replacement of porcelain insulator at polymer.	
264	220 KV GAYA -SONENAGAR-II LINE	23/08/17	10:00	23/08/17	14:00	ODB	ER-1 POWERGRID	Replcement of GD from CB	Bihar
265	Lines- 132 kV LKR-LKR-2 & 132 kV LKR-Jamui-1	23/08/17	08:00	27/08/17	18:00	ODB	ER-I	For Erection of LM Tower-1	Bihar
266	220KV BUS-II at Rourkela	23/08/17	09:00	23/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	GRIDCO
267	220kV Bus Coupler at Rengali	23/08/17	09:00	23/08/17	17:00	ODB	ER-II/Rengali/Odisha	Replacement of Tan delta violated CT (R&B Ph.)	
268	220kV Birpara-Salakati-II	23/08/17	08:00	23/08/17	16:00	ODB	ER-II	AMP work	NLDC
269	132kV Rangpo-Chuzachen	23/08/17	08:00	25/08/17	16:00	ODB	ER-II	Insulator replacement work	Sikkim
270	125 MVAR Bus reactor-II	23/08/17	08:00	23/08/17	16:00	ODB	ER-II	Oil leakage arresting work of reactor	
271	400 KV BSF - KOD Ckt. I	24/08/17	08:00	24/08/17	18:00		POWERGRID ER-I	For replacement of porcelain insulator at polymer.	DVC
272	East Side HVDC Filter CWC56Q50 @ Pusauli	24/08/17	0900	24/08/17	1800	ODB	ER-I	AMP	
273	At KGP:400KV Bus-1 & B/C	24/08/17	06:00	24/08/17	15:00	ODB	WB	PrePuja Maintenance	
274	400KV ROURKELA-SEL#2 MAIN BAY AT ROURKELA (BAY NO.- 426) at Rourkela	24/08/17	09:00	24/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	

275	500MVA ICT# V AT SUBHASGRAM	24/08/17	08:00	24/08/17	17:30	ODB	ER-II	PSD Commissioning work	West Bengal
276	400KV Bus Reactor-2	24/08/17	09:30	25/08/17	17:30	ODB	FARAKKA	Reactor & Relay testing	
277	400 kV Patna- Ballia-1	25/08/17	08:00	26/08/17	18:00	ODB	ER-1 POWERGRID	For replacement of porcelain insulator awith polymer insulator.	NLDC
278	At KGP:400KV Bus-2 & B/C	25/08/17	06:00	25/08/17	15:00	ODB	WB	PrePuja Maintenance	
279	220kv Maithon-Kalyanswari I&II	25/08/17	08:00	25/08/17	16:00	ODB	ER-II	Insulator Replacement at MD Line	DVC
280	400kv MTN Mejia-3 line	25/08/17	08:00	25/08/17	16:00	ODB	ER-II	Repalcement of Isolator Arm (41189B) and Insulator Replacement at MD Line	DVC
281	400kv MTN Mejia-2 line	25/08/17	08:00	25/08/17	16:00	ODB	ER-II	Replacement of Y & B ph LA	DVC
282	400KV GT#5 Main Bay at Barh	25/08/17	09:30	27/08/17	18:00	OCB	BARH	PM job of Bay & relay test	
283	400KV GT#5 TIE Bay at Barh	25/08/17	09:30	27/08/17	18:00	OCB	BARH	PM job of Bay & relay test	
284	400KV GT#5 at Barh	25/08/17	09:30	31/08/17	18:00	OCB	BARH	PM job of Generator Transformer	
285	ICT-3 & BR-2 Tie bay no.-411 AT BSF	26/08/17	10:00	30/08/17	18:00	OCB	ER-1 POWERGRID	CB Overhauling Work	
286	At KGP:400KV Bus Transfer Bay	26/08/17	06:00	26/08/17	15:00	ODB	WB	PrePuja Maintenance	
287	400KV SEL#2 - 125MVAR B/R TIE BAY AT ROURKELA(BAY NO.- 427) at Rourkela	26/08/17	09:00	26/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	
288	400 KV Indravati-Jeypore Main Bay at Indravati	26/08/17	09:00	30/08/17	18:00	OCB	ER-II/Odisha/Indravati	Overhauling of Main Bay (403) CB Mechanism	
289	400KV Berhampore Sagardighi Ckt-I Main Bay(407 bay)	26/08/17	08:00	26/08/17	16:00	ODB	ER-II	Fixing Alingment of isolator (89A) and AMP	West Bengal
290	132kv Rangit -Rammam	26/08/17	08:00	28/08/17	16:00	ODB	ER-II	Insulator replacement work	West Bengal
291	220KV Ranchi-Hatia-1	28/08/17	10:00	28/08/17	17:00	ODB	ER-1 POWERGRID	For attending hot spot at 20689L Rph	JUSNL
292	Bay No.- 106 & 132 kV Main Bus	28/08/17	08:00	30/08/17	18:00	ODB	ER-I	For Erection of LM Tower-3	Bihar
293	220KV BUS COUPLER BAY ROURKELA (BAY NO.- 202) at Rourkela	28/08/17	09:00	28/08/17	18:00	ODB	ER-II/Odisha/ROURKELA	AMP Work.	
294	220 KV MALDA-DALKHOLA-II	28/08/17	08:00	28/08/17	16:00	ODB	ER-II	AMP works	
295	400KV Berhampore Farakka Tie Bay (405)	28/08/17	08:00	28/08/17	16:00	ODB	ER-II	Fixing of Isolator alingment	
296	400kv Maithon-RTPS	28/08/17	08:00	28/08/17	16:00	ODB	ER-II	Insulator Replacement at MD Line	DVC
297	220kv Maithon-Dhanbad I&II	28/08/17	08:00	28/08/17	16:00	ODB	ER-II	Insulator Replacement at MD Line	DVC
298	400KV Berhampore Bheramara Ckt-II Main Bay (401 bay)	28/08/17	08:00	28/08/17	16:00	ODB	ER-II	AMP works	
299	400KV Berhampore Sagardighi Ckt-I Tie Bay(408 bay)	28/08/17	08:00	28/08/17	16:00	ODB	ER-II	Fixing of SCADA operation of CB	
300	400 kV Patna-Ballia-2	29/08/17	08:00	30/08/17	18:00	ODB	ER-1 POWERGRID	For replacement of porcelain insulator awith polymer insulator.	NLDC
301	400/220KV 315 MVA ICT-II @ Pusauli	29/08/17	0900	29/08/17	1800	ODB	ER-I	AMP	Bihar
302	220KV ICT#1 INCOMER BAY AT ROURKELA (BAY NO.- 211) at Rourkela	29/08/17	10:00	29/08/17	12:00	ODB	ER-II/Odisha/ROURKELA	Jumper Tightening.	
303	400KV Fkk-Kahalgao line-3	29/08/17	09:30	29/08/17	17:30	ODB	FARAKKA	CB testing	
304	220KV Bus-II at RANCHI	30/08/17	10:00	30/08/17	17:00	ODB	ER-1 POWERGRID	For attending hot spot at 20989B Rph (220KV Side of ICT-II) . ICT-II remain charge through TBC	JUSNL
305	315 MVA ICT-I AT SUBHASGRAM	30/08/17	08:00	30/08/17	17:30	ODB	ER-II	Tertiary CT-B-phase replacement work	West Bengal

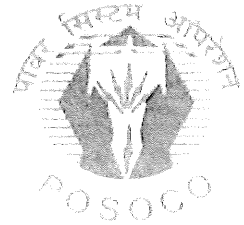
Outages proposed in other RPCs requiring ERPC approval

SI No	Name of Elements	From		To		Basis	outages proposed in	Reason	Name of Requesting
		Date	Time	Date	Time				
1	Barh Gorakhpur Ckt- I(400 kV)	03-Aug-17	08:00	03-Aug-17	18:00	Daily	NRPC	Replacement of terminal connector of line Isolator as per head office instructions. , at Gorakhpur	POWERGRID
2	Barh Gorakhpur Ckt- I(400 kV)	04-Aug-17	08:00	04-Aug-17	18:00	Daily	NRPC	Replacement of terminal connector of line Isolator as per head office instructions. , at Gorakhpur	POWERGRID
3	Gaya-Varanasi-2 line	02-Aug-17	14:00	02-Aug-17	17:00	Daily	NRPC	Bushing Oil sampling for DGA , at Varanasi	POWERGRID
4	500KV HVDC Talcher-Kolar I&II	12-Aug-2017	7:00	14-Aug-2017	17:00	D	SRPC	Construction Works: For carrying power line crossing works of 765 KV LILO of Kurnool-Thiruvallam line, 765 KV C'peta-Kadapa line, 765 KV Vemagiri -C'peta line, 400KV Kadapa - NP Kunta Line.	POWERGRID
5	400 RANCHI-SIPAT I	21-Aug-17	08:00	26-Aug-17	18:00	Cont.	WRPC	For Rectification of Bend C-leg at Tower No 664, on permanent basis	POWERGRID
6	400 RANCHI-SIPAT II	21-Aug-17	08:00	26-Aug-17	18:00	Cont.	WRPC	For Rectification of Bend C-leg at Tower No 664, on permanent basis	POWERGRID
7	765 KV Angul-Srikakulam TL CKT-I	23-Jul-2017	7:00	23-Jul-2017	17:00	Daily	ERPC	Replacement of Glass Insulators by Long Rod Polymer Insulators at loc no. 681, 715, 722,723, 727 and 728. REMARKS: ER-SR TTC May be reduced by 800 MW	dates Approved by SRPC
8	400 kV Jeypore-Indravati S/C Line	24-Jul-2017	6:00	25-Jul-2017	17:00	D	ERPC	For Replacement of PID Defective Insulators in Jey-Ivt Line (If Not available in the month of June 2017)REMARKS: ER-SR TTC May be reduced by 300 MW subjected to real time Grid condition	dates Approved by SRPC
9	Pole 2 @ Gajuwaka	24-Jul-2017	8:00	25-Jul-2017	17:00	C	SRPC	Busbar Integration works-New 125 MVAR Reactor-Construction	POWERGRID
10	765 KV Angul-Srikakulam TL CKT-II	29-Jul-2017	7:00	30-Jul-2017	17:00	D	ERPC	Replacement of Glass Insulators by Long Rod Polymer Insulators at loc no. 681, 715, 722,723, 727 and 728. REMARKS: ER-SR TTC May be reduced by 800 MW	dates Approved by SRPC
11	400 KV Rengali-Indravati Line Auto Reclose	1-Aug-2017	8:00	31-Aug-2017	18:00	D	ERPC	For PID of 400 KV Rengali - Indravati Line, noPower Interruption of line will be there.	dates Approved by SRPC
12	400kV Bus-II at Rengali	2-Aug-2017	9:00	2-Aug-2017	17:00	D	ERPC	For connecting of Bus Bar Pipe of New 2 x 125 MVAR Bus Reactor Bay extension work at Rengali.	dates Approved by SRPC
13	400 kV Bus-I at Jeypore	3-Aug-2017	9:30	3-Aug-2017	13:30	D	ERPC	For Relay Testing after Retrofitting of BusBar Protection System (If Not available in the month of July 2017)	dates Approved by SRPC
14	400 kV Bus-II at Jeypore	3-Aug-2017	14:00	3-Aug-2017	18:00	D	ERPC	For Relay Testing after Retrofitting of BusBar Protection System (If Not available in the month of July 2017)	dates Approved by SRPC
15	400kV Bus-I at Rengali	3-Aug-2017	9:00	3-Aug-2017	17:00	D	ERPC	For connecting of Bus Bar Pipe of New 2 x 125 MVAR Bus Reactor Bay extension work at Rengali.	dates Approved by SRPC
16	400KV Bus II at bolangir	8-Aug-2017	8:00	14-Aug-2017	18:00	D	ERPC	BPI Erection and Stringing in Reactor Bay construction ERSS-XIV	dates Approved by SRPC
17	400 kV Jeypore-Gajuwaka-I Line	14-Aug-2017	9:30	14-Aug-2017	13:30	D	ERPC	For Relay testing after Retrofitting of Main-II Relay of Gajuwaka-I Line (If Not completed in the month of July 2017)REMARKS: ER-SR TTC May be reduced by 300 MW	dates Approved by SRPC
18	400 kV Jeypore-Gajuwaka-II Line	14-Aug-2017	13:30	14-Aug-2017	17:30	D	ERPC	For Relay testing after Retrofitting of Main-II Relay of Gajuwaka-II Line (If Not completed in the month of July 2017)REMARKS: ER-SR TTC May be reduced by 300 MW	dates Approved by SRPC
19	400kV Bus-II at Rengali	14-Aug-2017	9:00	14-Aug-2017	17:00	D	ERPC	For Relay Testing after Retrofitting of BusBar Protection System at Rengali.	dates Approved by SRPC
20	400kV Angul-Bolangir Line.	16-Aug-2017	8:00	16-Aug-2017	18:00	D	ERPC	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation workREMARKS: ER-SR TTC May be reduced by 300 MW	dates Approved by SRPC
21	400 KV Rengali Indravati Line	16-Aug-2017	7:00	22-Aug-2017	18:00	D	ERPC	Replacement of Porcelain insulators with Polymer insulators in major crossings REMARKS: ER-SR TTC May be reduced by 300 MW May be completed by 4/5 days	dates Approved by SRPC
22	400kV Bus-I at Rengali	17-Aug-2017	9:00	17-Aug-2017	14:00	D	ERPC	For Relay Testing after Retrofitting of BusBar Protection System at Rengali	dates Approved by SRPC

23	765kV Angul-Srikakulam Line-1	17-Aug-2017	8:00	17-Aug-2017	18:00	D	ERPC	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation work (In case non-availability of the S/D in July'17, it will be taken in the month of Aug-17) REMARKS: ER-SR TTC May be reduced by 800 MW	dates Approved by SRPC
24	765kV, 80*3 MVAR Srikakulam Line Reactor-2 at Angul	18-Aug-2017	8:00	18-Aug-2017	18:00	D	ERPC	For commissioning of Spare Reactor with Line Reactor-2 under construction head.	dates Approved by SRPC
25	765 KV Angul-Srikakulam TL CKT-II	18-Aug-2017	7:00	19-Aug-2017	17:00	D	ERPC	Replacement of Glass Insulators by Long Rod Polymer Insulators at loc no. 681, 715, 722,723, 727 and 728. (Already approved in 134th OCC, in case of non availability, the S/D will be taken in the month of Aug-17)REMARKS: ER-SR TTC May be reduced by 800 MW	dates Approved by SRPC
26	765 KV Angul-Srikakulam TL CKT-I	21-Aug-2017	7:00	22-Aug-2017	17:00	D	ERPC	Replacement of Glass Insulators by Long Rod Polymer Insulators at loc no. 681, 715, 722,723, 727 and 728.(Already approved in 134th OCC, in case of non availability the S/D will be taken in the month of Aug-17) REMARKS: ER-SR TTC May be reduced by 800 MW	dates Approved by SRPC

पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)

POWER SYSTEM OPERATION CORPORATION LIMITED
(A Government of India Enterprise)



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दूरभाष : 033 2423 5867/5875, फैक्स : 033 2423 5809/5704/5029, ई-मेल : erldc@posoco.in / www.erldc.org
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Tel. : 033 2423 5867/5875, Fax : 033 2423 5809/5704/5029, E-mail : erldc@posoco.in / www.erldc.org

ERLDC/SS & MIS/2017/VDI/1621

Date: 04-07-17

To,

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

Sub: Reporting of voltage deviation indices (VDI) for selected Substations in ER, for June 2017.

विषय: June 2017 के लिए पूर्वी क्षेत्र में चयनित सबस्टेशन के लिए वोल्टेज विचलन सूचकांक (VDI) की रिपोर्टिंग

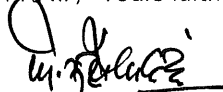
Sir/ महोदय,

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

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

आपको धन्यवाद,

आपका विश्वस्त / Yours faithfully,


(पी मुखोपाध्याय) / (P Mukhopadhyay)
महाप्रबन्धक / General Manager

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

Ranchi New			Jamshedpur			Muzaffarpur		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
804	744	0.18	428	410	74.20	417	382	0.00

Bihar Sariff			Binaguri			Jeerat		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
421	394	0.05	420	392	0.00	425	379	0.93

Rourkela			Jeypore			Koderma		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
418	394	0.00	425	381	0.43	425	402	2.81

Maithon			Teesta			Rangpo		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
418	396	0.00	418	393	0.00	416	392	0.00