



Minutes of **122nd OCC Meeting**

Date: 15.06.2016
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

Eastern Regional Power Committee

Minutes of 122nd OCC Meeting held on 9th June, 2016 at ERPC, Kolkata

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

Item no. 1: Confirmation of minutes of 121st OCC meeting of ERPC held on 20.05.2016

The minutes of 121st OCC meeting were uploaded in ERPC website and circulated vide letter dated 07.06.2016 to all the constituents.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 121st OCC Meeting.

PART A

(List of Items to be discussed for which the details are given at “Part B”)

- B.1. Commissioning of new transmission elements in Eastern Region
- B.2. Status of projects funded under PSDF schemes
- B.3. Status of 132kV Rihand-Sonenagar D/C Line — Agenda by JUSNL
- B.4. Detailed Operating procedure (draft) regarding implementation of Technical Minimum Schedule for Central Generating Stations and Inter-State Generating Stations
- B.5. Shifting of smelter loads to STU Bus of Vedanta Limited, Jharsuguda--ERLDC
- B.6. Status of UFRs healthiness installed in Eastern Region
- B.7. Healthiness of SPS existing in Eastern Region
- B.8. Status of Islanding Schemes of Eastern Region
- B.9. Restoration of PLCC system of important lines
- B.10. Status update of previous decisions/follow up actions
- B.11. Third Party Protection Audit
- B.12. Inspection of UFR relays
- B.13. Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN
- B.14. Certification through BIS as per IS 18001:2007 to all generating/ transmission units
- B.15. Energy Generation data management from Renewable Energy Sources
- B.16. Compilation of data for meeting Renewable Energy targets of 175 GW by 2020 -- Reference from MNRE
- B.17. Data of Peak Demand – Submission of hourly power cut data
- B.18. Recovery Procedures of ER Constituents – ERLDC
- B.19. Nodal coordinators for web based scheduling software
- B.20. Dynamic data of Generator Models required in PSSE for Simulations
- B.21. Long outage of important transmission lines
- B.22. Transfer capability determination by the states -- Agenda by NPC
- B.23. Reasons for demand –supply gap and its variation -- Agenda by NPC
- B.24. Update on status of telemetry
- B.25. Status of Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipment.
- B.26. Status of Emergency Restoration System (ERS Towers) for Eastern Region constituents
- B.27. Pollution mapping for Eastern Region
- B.28. Mock Black start exercises in Eastern Region
- B.29. Restricted Governor Mode of Operation
- B.30. Reactive Power performance of Generators and GT tap position optimization

PART B: ITEMS FOR DISCUSSION

(Items to be discussed as listed in “Part A”)

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

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

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

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

1. 220kV Katapalli-Bolangir(New)-II LIL Oed at Bolangir first time charged at 17:39hrs of 04/05/16.
2. 400kV bays of 400kV Kharagpur-Chaibasa-I & II (bay no-413, 414, 416 & 417) at Chaibasa first time charged at 20:17, 20:25, 20:32 & 20:39hrs of 26/05/16.
3. 63MVA L/R of 400kV Kharagpur-Chaibasa-I first time charged as B/R at 19:18hrs of 27/05/16.
4. 765kV, 80 MVA spare reactor(single phase) at Jharsuguda first time charged as B-ph of 240MVA B/R-I at 22:31hrs of 27/05/16.
5. 765/400kV, 500MVA, spare ICT(single phase) at Jharsuguda first time charged as B-ph of 1500MVA ICT-2 at 22:32hrs of 30/05/16.

Other constituents may update (if any).

Deliberation in the meeting

WBSETCL updated the following

1. 220 kV Kharagpur-Vidyasagar park #2 was commissioned on 20.05.2016 at 14:05 hrs.
2. 220kV GIS bus-1 at Vidyasagar park S/s charged on 20.05.2016 at 14:08 hrs.
3. 220kV GIS bus-2 at Vidyasagar park S/s charged on 20.05.2016 at 14:15 hrs.
4. 220 kV Kharagpur-Egra line-I & II (67.403km) charged on 24.05.2016 at 20:13 hrs.
5. 220kV GIS bus at 220/132kV Egra S/s charged on 24.05.2016 at 20:13 hrs.
6. 160 MVA 220/132kV ATR#1 charged on no load from HV side on 26.05.2016 at 00:56 hrs.
7. 160 MVA 220/132kV ATR#1 charged on load on 27.05.2016 at 13:47 hrs.

Item No. B.2: Status of projects funded under PSDF schemes

In the PSDF review meeting held on 29.04.16 at N. Delhi, 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 table given below:

SN	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	Amount approved	Amount drawn till date	Status as updated in 121 st OCC

In 121st OCC, WBSETCL submitted the requisite information which is attached at **Annexure-B.2**.

Constituents may update.

Deliberation in the meeting

OPTCL submitted the latest status as follows:

Sl. No.	Name of constituent	Name of project	Date of approval from PSDF	Target date of completion	Amount approved	Amount drawn till date	Status
1	OPTCL	Renovation & Up-gradation of protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies.	11.05.2015	10.05.2017	Rs.162.5 Cr.	Rs.4.91 Cr.	Erection work of the already procured equipment is going on. LOA for eight different types of Testing equipment already placed worth about Rs.4 Cr. Placement of LOA for balance equipment is under process. Tender for Sub-station automation will be floated in July-2016.

WBSETCL informed that no fresh updation in its last submission

OCC advised all other constituents to submit the details at the earliest.

Item No. B.3: Status of 132kV Rihand-Sonenagar D/C Line — Agenda by JUSNL

JUSNL vide letter dated 01.06.2016 intimated that the old 132kV Rihand-Sonenagar D/C T/L has been configured after creation of Jharkhand under mutual understanding of both the state of Bihar and Jharkhand in the following manner:

1. 132kV Rihand-Sonenagar Ckt-I is feeding power directly to Sonenagar but being maintained by JUSNL.
2. 132kV Rihand-Sonenagar Ckt-II has been made LILO at Garhwa and Japla and presently the T/L is in three segments i.e. 132kV Rihand-Garhwa S/C, 132kV Garhwa –Japla S/C and 132kV Japla-Sonnenagar S/C.

132kV Rihand-Sonenagar Ckt-I remains virtually idle charged for most of the time but maintenance is done by JUSNL because of being on the same tower. Palamu region of Jharkhand is solely dependent on Rihand and Sonenagar for getting power for Railway Traction & Distribution power for consumers. Right now Sonenagar (BSPTCL) has restricted power on account of mishappening of collapse of 9 towers.

Therefore, JUSNL through SLDC has placed the following proposal for sake of welfare of the state and in larger interest of uninterrupted, reliable power for railway traction (20-25MW).

1. The old double ckt of 132kV Rihand-Sonenagar T/L will be taken over by JUSNL because it is passing through the geographical area of Jharkhand (90% of the stretch of length) and is being maintained by JUSNL.
2. The 132kV Rihand-Sonenagar Ckt (Ckt-I) shall be LILO like Ckt-II at Garhwa & Japla and middle segment of the said T/L shall be connected to Garhwa and Japla. This will facilitate reliability of circuit and help in carrying out regular maintenance work.
3. Whenever BSPTCL will need emergency power, same may be extended from Japla to Sonenagar on as and when required basis.

4. In near future Garhwa G/S/S is going to be connected to 132kV G/S/S Daltonganj and adequate power from Ranchi may be extended in the Palamu region. At that time we will be in a position to extend power from Japla to Sonenagar on as and when required basis as presently is being fulfilled through 132 kV Rihand –Sonenagar Ckt-I.

JUSNL may explain. Members may discuss.

Deliberation in the meeting

Member Secretary, ERPC informed that the issue has been discussed in 4th SSCM meeting and Director (Projects), BSPTCL agreed to communicate their views.

On receipt of comments from BSPTCL, the issue needs deliberation before TCC.

Item No. B.4: Detailed Operating procedure (draft) regarding implementation of Technical Minimum Schedule for Central Generating Stations and Inter-State Generating Stations

As per Cl.6.3(B).6 of the IEGC(4th Amendment) regarding scheduling of technical minimum of CGS:

“NLDC shall prepare a Detailed Operating Procedure in consultation with the generators and beneficiaries at RPC forums within 2 months’ time and submit to the Commission for approval. The Detailed Operating Procedure shall contain the role of different agencies, data requirements, procedure for taking the units under reserve shut down and the methodology for identifying the generating stations or units thereof to be backed down upto the technical minimum in specific Grid conditions such as low system demand, Regulation of Power Supply and incidence of high renewables etc., based on merit order stacking.”

Accordingly, a draft procedure has been formulated and the same is attached alongwith for discussion with generators and the beneficiaries. It is requested that members may go through the procedure and give their comments for consideration of the same and finalization of the draft procedure for submission to CERC.

Members may discuss.

Deliberation in the meeting

ERLDC explained the Detailed Operating procedure (draft) regarding implementation of Technical Minimum Schedule for Central and Inter-State Generating Stations.

OCC advised all the Central and Inter-State Generating Stations to communicate their views to the following email ids:

- *tushar.mohapatra@gmail.com*
- *psdas1972@gmail.com*
- *mserpc-power@nic.in*

Item No. B.5: Shifting of smelter loads to STU Bus of Vedanta Limited, Jharsuguda-- ERLDC

It has been intimated that some of the smelter loads are being fed from the Bus connected to the CTU side at Vedanta limited, Jharsuguda. Presently, scheduling of Vedanta Limited, Jharsuguda is being done by ERLDC considering maximum import capacity of 64MVA. Also, the control area jurisdiction of the smelter loads are not clear(i.e whether to be treated as GRIDCO load or as Vedanta Captive load), and the ownership of the lines feeding smelter loads are also not clear. After conversion to CGP as per the OERC order Dtd.27/01/16, Vedanta has neither obtained

requisite connectivity from CTU nor has furnished clearance/NOC from SLDC, OPTCL for the above configuration of smelter loads. Accordingly, it may be noted that before Vedanta starts feeding smelter loads as captive loads from CTU Bus, the following are required to be fulfilled:

- a) Modified connectivity from CTU as a CGP(after establishment of the exportable surplus) and hence the modified export/import connectivity limits.
- b) No objection statement from SLDC, OPTCL permitting feeding of smelter loads in captive mode.
- c) Confirmation/Affidavit from Vedanta Limited, that the CTU and STU Buses would remain segregated under all circumstances.

Pending fulfillment of above requirements, Vedanta may ensure that smelter loads are always fed from the STU side Bus.

ERLDC may explain. Vedanta may update.

Deliberation in the meeting

*ERLDC presented the SLD of Vedanta switchyard (SLD enclosed at **Annexure-D**), explaining the segregation of the 400kV Buses (CTU and STU side), configuration of the feeders, the operational arrangement proposed by Vedanta, and the reasons for difficulty in feeding smelter loads directly from the CTU side Bus.*

After detailed deliberations, OCC concluded the following as being the essential pre-requirements to permit such configuration for feeding the smelter loads:

- a) Grant of modified connectivity from CTU and furnishing of the connectivity agreement after conversion to CGP(as per OERC order).*
- b) No objection certificate from SLDC, OPTCL permitting feeding of smelter loads directly from CTU side Bus, as Vedanta, Jharsuguda has approached OERC for feeding its smelter loads directly without any form of open Access and related transmission charges/losses.*
- c) Confirmation/Affidavit from Vedanta that STU and CTU Buses would always remain segregated under all circumstances.*

Subsequent to above, ERLDC would review the meter locations and confirm the adequacy of metering to ensure that there are no problems w.r.t the energy accounting & settlement process.

Item No. B.6: Status of UFRs healthiness installed in Eastern Region

UFR Healthiness Certification for the month of May, 2016 has been received from WBSETCL, only.

Other constituents may submit.

Deliberation in the meeting

JUSNL, DVC and CESC have submitted the healthiness certificate. OCC advised all other constituents to submit the healthiness certificate.

Item No. B.7: Healthiness of SPS existing in Eastern Region

JITPL, have submitted the healthiness certificate for the month of May, 2016.

NTPC vide mail dated 07.06.16 informed that SPS checking for the month of May-16 could not be carried out due non-availability of consent from NLDC. However it is certified that the SPS protection is healthy and in service at TSTPS.

Powergrid-Odisha, Vedanta, CESC & GMR, Powergrid ER-II & Chuzachen may submit the healthiness certificate for May, 2016.

Respective members may update.

Deliberation in the meeting

Powergrid (Odisha) and JITPL have submitted the SPS healthiness certificate. OCC advised all other constituents to submit the healthiness certificate at the earliest.

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

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

At present, the following islanding schemes are in service:

1. CESC as a whole Islanding Scheme, CESC
2. BkTPS Islanding Scheme, WBPDC
3. Tata Power Islanding Scheme, Haldia
4. Chandrapura TPS Islanding Scheme, DVC

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

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

CESC may submit the healthiness certificate.

Deliberation in the meeting

Healthiness certificates have been received from all the respective constituents.

B.8.2: FSTPS Islanding Scheme, NTPC

In 118th OCC, NTPC informed that their part is ready for implementation.

Powergrid informed that the battery charger has been delivered and expected to complete the work by March, 2016.

In 119th OCC, Powergrid informed that the battery charger has been delivered to site and for commissioning with deputation of service engineer JUSNL has to ensure the supply of materials which are in the scope of JUSNL.

OCC advised JUSNL to coordinate with Powergrid and arrange the required materials/works which are in the scope of JUSNL. JUSNL agreed.

In 120th OCC, JUSNL informed that the required materials/works have been arranged, Powergrid may start the commissioning work.

In 121st OCC meeting, Powergrid informed that official confirmation for the readiness of site/material availability by JUSNL is still awaited.

OCC advised JUSNL to give official correspondence regarding their readiness and co-ordinate for early commissioning of the Islanding scheme.

NTPC/Powergrid may update.

Deliberation in the meeting

NTPC informed that cable laying completed and interfacing is pending.

JUSNL informed that the required materials/works will be completed within 20 days and Powergrid will be contacted accordingly.

B.8.3: Bandel Islanding Scheme, WBPDC

In 120th OCC, WBPDC informed that the islanding scheme will be implemented by December, 2016.

Subsequently, in the PSDF review meeting held on 29.04.16 in Delhi with Joint Secretary(OM), MOP, GOI in Chair, ERPC placed a proposal for funding the Bandel Islanding scheme from PSDF. The review committee informed that such type of islanding scheme is now being funded by PSDF and therefore Bandel Islanding Scheme also can be included.

Accordingly, WBPDC was requested to place the detail proposal for PSDF funding to nodal agency NLDC with a copy to ERPC at the earliest so that the road map is strictly adhered to.

In 121st OCC, WBPDC informed that DPR for PSDF funding is under preparation.

WBPDC may update the latest status.

Deliberation in the meeting

It was informed that WBPDC submitted the DPR to ERPC Secretariat.

WBPDC informed that tendering is in progress.

OCC advised secretariat to have interaction with WBPDC and finalise the DPR for submission to NLDC.

Item No. B.9: Restoration of PLCC system of important lines

In 119th OCC, JUSNL informed that the following:

- a) In 220 KV Chandil –Ramchandrapur line auto-reclosure has been enabled and linked with PLCC panels on 09.03.16.
- b) In 220 KV Chandil –Ranchi line auto-reclosure has been enabled and termination done in PLCC panels (Auto-reclosure will be in service after testing of PLCC scheduled on 22.03.16)
- c) In 220 KV Chandil –Santaldih line auto-reclosure has been enabled and termination done in PLCC panels at Chandil end but due to non-availability of PLCC panels at Santaldih(WBPDC) end the A/R and PLCC scheme could not be activated.
- d) In 220 KV Ramchandrapur-Joda line auto-reclosure has been enabled and termination done in PLCC panels at Ramchandrapur end but due to non-availability of PLCC panels at Joda (OPTCL) end the A/R and PLCC scheme could not be implemented.

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

the above lines.

OCC advised WBPDCCL and OPTCL to accept the JUSNL offer and implement the PLCC scheme at the earliest for both the 220 kV lines.

Subsequently, JUSNL vide letter dated 13.04.2016 has asked for consent of OPTCL and WBPDCCL for cost estimate details for further needful action.

In 120th OCC, WBPDCCL informed that they are in receipt of the JUSNL letter and the decision of their higher authority will be communicated soon.

OPTCL informed that they have some queries regarding the AMC of the PLCC panels as these were purchased in 2006. They will communicate their queries to JUSNL.

OPTCL vide letter dated 30.04.16 has communicated JUSNL that the PLCC set should be commissioned & under AMC of the manufacturer for trouble free and reliable service.

In 121st OCC meeting, OCC advised WBPDCCL to settle the issue at earliest.

OCC also advised JUSNL to respond to the queries of OPTCL and WBPDCCL at the earliest.

JUSNL & WBPDCCL may update.

Deliberation in the meeting

WBPDCCL informed that they will commission the autoreclose feature at 220kV Santaldih with implementation of SAS which is under process.

Member Secretary clarified that the issue of activation PLCC in JUSNL is very seriously taken by CERC. So in view of that other end like Joda of OPTCL & Santaldih of WB need to be restored with utmost care.

Therefore, OCC advised JUSNL, OPTCL and WBPDCCL to restore the PLCC system at Joda and Santaldih at the earliest with mutual coordination.

OPTCL vide mail dated 16.03.2016 informed the PLCC communication status of the important links under OPTCL as follows:

1. Jeypore(PG)-Jayanagar (Commn. in OPGW exists)
2. Rourkela(PG)-Tarkera (Commn. in OPGW exists)
3. Rengali(PG)-Rengali S/Y (Proposal for Commn. in OPGW is pending)
4. Indravati(PG)-Indravati(PH) (Proposal for Commn. in OPGW pending)
5. Baripada(PG)-Baripada (Tendering in Progress for OPGW)
6. Baripada(PG)-Rairangpur (Tendering in Progress for OPGW)

BSPTCL and WBSETCL may place their roadmap for restoration of PLCC for important lines using their own resources.

Deliberation in the meeting

OCC advised BSPTCL and WBSETCL to place their roadmap.

Item No. B.10: Concerned members may update the latest status.

B.10.1. Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)

In 121st OCC, IBEUL updated the status as follows:

- All the 125 towers foundations have been completed and 125 have been erected.
- Due to route alignment one tower (i.e. 126th tower) has been increased which is under construction.
- Stringing work of 36.81 km out of 39.74 km line has been completed.
- The bay work at 400 kV Jharsuguda (Kenapalli) S/s has also been completed.
- The line will be commissioned by end of June, 2016.

Ind-Bharath may update the latest status.

Deliberation in the meeting

Ind-Bharat informed that the line would commission by 30th June, 2016.

B.10.2. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In 31st TCC/ERPC followed by 115th OCC Vedanta informed that out of 66 tower foundations, 21 have been completed and rest is expected to be completed by December, 2015. Commissioning of line is expected by 15 April, 2016.

32nd TCC advised Vedanta to strictly adhere to the schedule.

In 118th OCC, advised Vedanta to adhere the decision of 32nd TCC/ERPC and complete the line by April, 2016.

In 121st OCC, Vedanta updated that 46 out of 66 foundations and installation of seven towers have been completed. OCC referred the issue to 33rd TCC.

Vedanta may update.

Deliberation in the meeting

Vedanta updated that 51 out of 66 foundations and installation of nine towers out of 64 have been completed.

OCC referred the issue to 33rd TCC.

B.10.3. Status of construction of Chuzachen bay at Rangpo S/s.

In 32nd TCC, Sikkim informed that the cost estimate from Powergrid was received recently and therefore after studying the same tendering will be done tentatively within a month.

In 118th OCC, Sikkim informed that tender would be floated by March, 2016 and work award will be issued by April, 2016.

Sikkim may update.

Deliberation in the meeting

Sikkim informed that tendering is in progress.

B.10.4. Non-availability of Tie bay of 400kV Sagardighi-Bhramapore-II

The issue was being deliberated in last few OCCs. In 118th OCC, WBPDCCL informed that the work has been delayed due to some problem of vendors.

ERLDC informed that 400 kV Sagardighi- Bhramapore D/C line is an important link for power transfer to Bangladesh and in case of undesired tripping due to non-availability of tie bay of this line the power transfer to Bangladesh may get affected.

OCC felt that the tie bay is very important for system reliability as power export to Bangladesh is expected to be enhanced to 1000 MW soon.

OCC advised WBPDCCL to commission the tie bay at the earliest. WBPDCCL agreed.

In 121st OCC, WBPDCCL informed that they are availing shutdown from tomorrow to complete the work and it is expected to be completed within 3-4 days.

Subsequently, WBPDCCL vide mail dated 01.06.16 informed that the Tie breaker of Baharampur#2 bay of SgTPP is charged on 31.05.2016. Now BHP#2 is connected to both Main bus#1 & Main bus#2.

Members may note.

Deliberation in the meeting

Members noted.

B.10.5. Non availability of both line Reactors of 400KV Malda-Purnea D/C

In 120th OCC, Powergrid informed that Reactor-2 has been charged and Reactor-1, will be brought into service by September, 2016.

In 121st OCC, Powergrid informed that order has been placed for Reactor-1 and it will be commissioned by September, 2016.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that Reactor-1 will be commissioned by September, 2016.

B.10.6. Status of Bus Splitting schemes in Eastern Region

A. Bus Splitting of Powergrid Sub-stations

In 11th SCM held on 20.09.2010 the bus-splitting arrangement with tie line breaker for the following 400kV substations in Eastern Region was agreed to contain the short circuit level below 40kA.

- Maithon
- Durgapur
- Biharshariff
- Kahalgaon

In 118th OCC, Powergrid updated the status as follows:

- Maithon ---Completed
- Durgapur--Completed
- Biharshariff—Foundation work has been completed but shutdown are yet to be received to complete the work.

In 121st OCC, Powergrid informed that they are not getting shutdown to complete the work at 400kV Biharshariff S/s.

BSPTCL informed that shutdown for 400kV Biharshariff S/s is not possible before September, 2016.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that shutdown has been placed from 13th -14th June, 2016. BSPTCL is to give real time concurrence.

B. 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 121st 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 package awarded, expected to be completed by June, 2016.
- Transformer package – Techno commercial under evolution. Price bid will be opened by 1st week of June, 2016.

NTPC may update.

Deliberation in the meeting

NTPC informed that price bid for Transformer package opened on 09.06.2016.

B.10.7. 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 121st 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	5 out of 14 completed. (Severe ROW problem)
b.	LILo of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S	Charged on 04.05.16
2.	400/220 kV Keonjhar S/S	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	Work order placed.
b.	Keonjhar (PG)-Turumunga (OPTCL) 220kV D/C line	Yet to be awarded
3.	400/220kV Pandiabil Grid S/s	
a.	Pratapsasan (OPTCL)-Pandiabil (PG) 220 kV D/C line	Work order placed.
b.	LILo of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	August, 2016

OPTCL may update.

Deliberation in the meeting

OPTCL updated the latest status 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 Dec, 2016.
b.	LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S	Charged on 04.05.16
2.	400/220 kV Keonjhar S/S	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	By 2017.
b.	Keonjhar (PG)-Turumunga (OPTCL) 220kV D/C line	By 2019.
3.	400/220kV Pandiabil Grid S/s: Expected by June'16	
a.	Pratapsasan (OPTCL)-Pandiabil (PG) 220 kV D/C line	Dec, 2017.
b.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	September, 2016

B.10.8. 220 kV inter-connecting lines of BSPTCL with 2x200 MVA, 400/132 kV sub-stations at Lakhisarai & Banka

In 121st OCC, BSPTCL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	The 2x200 MVA, 400/132 kV Lakhisarai sub-station	
a.	132kV Lakhisarai (PG)-Lakhisarai (BSPTCL) D/C line	Charged
b.	132 kV Lakhisarai-Jamui (BSPTCL) D/C line	<i>Charged on 05.10.2015</i>
2.	2x200 MVA, 400/132 kV Banka sub-station	
a.	LILO of 1 st circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG)	Charged.
b.	LILO of 2 nd circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG)	Line completed. Materials awaited for completion of bays. By May, 2016
c.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-I	Completed
d.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-II	Completed

BSPTCL may update.

Deliberation in the meeting

BSPTCL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	2x200 MVA, 400/132 kV Banka sub-station	
a.	LILO of 1 st circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG)	Charged.

b.	LILO of 2 nd circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG)	Line & bays completed. Powergrid to terminate the line.
c.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-I	Completed
d.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-II	Completed
2.	The 2x200 MVA, 400/132 kV Lakhisarai sub-station	
a.	132kV Lakhisarai(PG)-Lakhisarai(BSPTCL)D/C line	Charged
b.	132 kV Lakhisarai-Jamui (BSPTCL) D/C line	Charged on 05.10.2015

Item No. B.11: Third Party Protection Audit

1. Status of 1st Third Party Protection Audit:

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

Name of Constituents	Total Observations	Complied	% of Compliance
Powergrid	54	37	68.52
NTPC	16	14	87.50
NHPC	1	1	100.00
DVC	40	26	65.00
WB	68	27	39.71
Odisha	59	38	64.41
JUSNL	34	16	47.06
BSPTCL	16	5	31.25
IPP (GMR, Sterlite and MPL)	5	5	100.00

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

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

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

Members may comply.

Deliberation in the meeting

OCC advised all the constituents to comply the pending observations.

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 (WBPCL)- | Completed on 7 th August 2015 |
| 4) Kharagpur (WBSETCL) 400/220kV - | Completed on 7 th August 2015 |
| 5) Bidhannagar (WBSETCL) 400 & 220kV | Completed on 8 th September, 2015 |
| 6) Durgapur (PG) 400kV S/s | Completed on 10 th September, 2015 |
| 7) DSTPS(DVC) 400/220kV | Completed on 9 th September, 2015 |

8)	Mejia (DVC) TPS 400/220kV	Completed on 11 th September, 2015
9)	400/220/132kV Mendhasal (OPTCL)	Completed on 2 nd November, 2015
10)	400/220kV Talcher STPS (NTPC)	Completed on 3 rd November, 2015
11)	765/400kV Angul (PG)	Completed on 4 th November, 2015
12)	400kV JITPL	Completed on 5 th November, 2015
13)	400kV GMR	Completed on 5 th November, 2015
14)	400kV Malda (PG)	Completed on 23 rd February, 2016
15)	400kV Farakka (NTPC)	Completed on 24 th February, 2016
16)	400kV Behrampur(PG)	Completed on 25 th February, 2016
17)	400kV Sagardighi (WBPDCCL)	Completed on 25 th February, 2016
18)	400kV Bakreswar (WBPDCCL)	Completed on 26 th February, 2016

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. The tentative plan for June/July, 2016 is as given below:

Date of Audit	Substations	Lodging and Boarding	Transport
	PPSP (WBSETCL) & Maithon (PG)	Stay at Maithon PGCIL guest house	Transportation will be arranged by Powergrid
	Maithon RB (MPL) & Raghunathpur (DVC)	Stay at Santaldih(WBPDCCL) guest house	
	Santaldih(WBPDCCL) & Arambagh (WBSETCL)	If required, stay at Santaldih(WBPDCCL) guest house	

Members may decide the schedule for June/July, 2016.

Deliberation in the meeting

Members noted.

Item No. B.12: Inspection of Under Frequency Relays (UFR)

119th OCC advised to carry out the UFR audit for JUSNL & BSPTCL along with the Protection site visit which is scheduled in April, 2016.

The status for first quarter of 2016-17 is proposed as given below:

Sl No	Proposed Date	Substation/feeder inspected by the sub-group	Status of audit
1	May, 2016	132/33 KV Hatia of JUSNL	12.05.2016
2		132/33 KV Namkum of JUSNL	12.05.2016
3	May, 2016	132/33 KV Adityapur of JUSNL	11.05.2016
4	May, 2016	220/132/33 KV Ramgarh of DVC	13.05.2016
5	June, 2016	132/33 KV Bari Pahari (Bihar Sharif) of BSPTCL	
6		132/33 KV Purnea of BSPTCL	
7		220/132/33 KV Sampatchak of BSPTCL	
8	June, 2016	220/132/33 KV Kalyaneswari of DVC	

In 121st OCC, the UFR audit report was presented before the house. It was informed that during UFR testing of Ramgarh (DVC) S/s it was found that the feeders were tripped at 48.52 Hz

instead of 48.6 Hz (set frequency). Therefore, it was recommended that the present EM Under Frequency relays of Ramgarh (DVC) S/s should be replaced with Numerical UF relays to get the desired UFR load shedding at the set frequency (i.e. 48.6 Hz).

DVC may place their action plan for replacement of UF relay at Ramgarh.

Members may decide the schedule for June/July, 2016.

Deliberation in the meeting

Members noted.

Item No. B.13: 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 plan of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

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

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

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

Members may note and comply.

Deliberation in the meeting

Members noted.

Item No. B.14: Certification through BIS as per IS 18001:2007 to all generating/transmission units.

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

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

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

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

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

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

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

Members may note and update the status.

Deliberation in the meeting

Members noted.

Item No. B.15: Energy Generation data management from Renewable Energy Sources

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

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

In 120th OCC, all the SLDCs were advised to submit the data to CEA as per the format given in **Annexure- B.15** with a copy to ERPC Secretariat.

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

SLDCs may update.

Deliberation in the meeting

OCC advised all the SLDCs to submit the relevant information on monthly basis.

Item No. B.16: 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 (copies enclosed at **Annexure-B.16**).

In 120th OCC, Concerned State Utilities /Generating companies are requested to submit data of their respective control areas by 1st week of May, 2016.

Members may update.

Deliberation in the meeting

Members noted.

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

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

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

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

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

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

For the month of May, 2016 data has been received from WBSETCL, BSPTCL, OPTCL.

DVC, CESC, JUSNL may furnish the data.

Deliberation in the meeting

DVC, CESC, JUSNL agreed to furnish the data.

Item No. B.18: Recovery Procedures of ER Constituents – ERLDC

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

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

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

The restoration procedure received from DVC, JUSNL and WBPDCCL.

In 121st OCC, ERLDC requested DVC & West Bengal to include restoration plan for priority loads mentioning quantum of load and restoration procedure.

ERLDC requested DVC and West Bengal to elaborate the preference of lines to get the start up power.

DVC and West Bengal agreed to include.

OPTCL and BSPTCL agreed to submit the restoration procedure by next OCC.

ERLDC may update.

Deliberation in the meeting

ERLDC updated that restoration procedure is yet to be received from Bihar and OPTCL.

ERLDC requested DVC & West Bengal to include restoration plan for priority loads mentioning quantum of load and restoration procedure.

OCC advised respective constituents to comply at the earliest.

Item No. B.19: Nodal coordinators for web based scheduling software

The name of Nodal Co-coordinators has been received from DVC, GMR, OPTCL & MPL.

Subsequently, BSPTCL vide letter dated 29.01.2016 has nominated the officers as given below:

- 1) Sri Deepak Kumar, AEE (SLDC), M.- 7763817776, e-mail- sch.patna@gmail.com
- 2) Miss Anjali Anand, AEE (SLDC), M.- 7033092546, e-mail- sch.patna@gmail.com

In 118th OCC, ERLDC informed that they have received the coordinator names from WBSETCL, NTPC, JUSNL and GMR.

Sikkim vide mail dated 16.03.2016 has nominated their nodal officers as given below:

Sh. Namgyal Tashi, Assistant Engineer (SLDC), Energy & Power Department, Government of Sikkim, Sonam Tshering Marg, Gangtok, East Sikkim-737101, Mobile No# 7797672743, Email: namgyaltashi26@gmail.com

119th OCC advised all the constituents to nominate their nodal officers at the earliest.

JITPL vide mail dated 16.03.16 has also nominated their nodal officer as given below:

Name: Nitin Kumar Gupta, Assistant Manager, Contact No: 08587878395
Email Id: jitplscheduling@jindalgroup.com

Chuzachen vide mail dated 18.04.16 nominated their nodal officer as given below:

Mr Shailendra Gautam - Senior Manager, M. No. +918016099975,
e-mail: shailendra.gautam@gatiinfra.com

The nominations are pending from Jorethang only.

In 121st OCC, it was also informed that a training on web based scheduling is going to organized in June, 2016.

ERLDC may update.

Deliberation in the meeting

ERLDC informed that a training on web based scheduling is going to organized in July, 2016.

Item No. B.20: Dynamic data of Generator Models required in PSSE for Simulations -- ERLDC

Requisite data received only from NTPC Kahalgaon & Barh, NHPC Teesta-V, GMR, CESC NTPC Farakka, WBPDC, JITPL and Vedanta Ltd.

In 119th OCC, it was informed that DVC, JUSNL and OPTCL were yet to submit the data.

OCC advised the above constituents to submit the requisite data at the earliest.

Latest status is enclosed at **Annexure-B20**.

Other Generators may ensure submitting the data.

Deliberation in the meeting

ERLDC updated the latest status. Latest status is enclosed at Annexure-B20.

OCC advised the respective constituents to submit the requisite data at the earliest.

Item No. B.21: Long outage of important transmission elements

a) Prolonged shutdown of 220kV TTPS-Joda-I

220kv TTPS-Joda-I was taken under shutdown for replacement of old Sheep conductor by ACSR Zebra conductor w.e.f 13/02/16 to 15/04/16. However, the shutdown has not been returned till date. The above line is important specially in context of feeding Joda loads during s/d of 220kv Joda-Ramchandrapur during which redundancy of feed to Joda/Jindal/ Jamshedpur (DVC) is affected.

OPTCL may furnish the day wise schedule of the pending works indicating the completion time as there has already been significant time over-run.

In 121st OCC, OPTCL informed that the line would be charged by June, 2016.

OPTCL may update.

Deliberation in the meeting

OPTCL informed that the line would be charged by end of June, 2016.

b) 400kV Meramundali-New Duburi D/C

Tower damaged at 3 locs. Viz. Locs.8/0, 8/1, & 8/2(4km from Meramundali).

OPTCL may update.

Deliberation in the meeting

OPTCL informed that shutdown of Railway line required for completion this work and the line would be charged by end of June, 2016.

c) 400kV Meramundali-Mendhasal S/C

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

OPTCL may update.

Deliberation in the meeting

OPTCL informed that the line would be charged by end of June, 2016.

d) 400kV Sterlite-Meramundali D/c

Tower at Loc.No35 twisted(near Sterlite).

OPTCL may update.

Deliberation in the meeting

OPTCL informed that the line would be charged by end of June, 2016.

OPTCL added that one tower of 220 kV Upper Kolab-Teruvali line was collapsed and the line will be in service by end of June, 2016.

e) 220kV Tenughat-Biharshariff

Tower collapse at Loc. No.3.

BSPTCL/JUSNL may update.

Deliberation in the meeting

JUSNL informed that the line would be charged by end of June, 2016.

f) 220kV Gaya-Dehri

Tower collapsed at loc. No275 from Gaya end.

BSPTCL may update.

Deliberation in the meeting

BSPTCL informed that the line will be in service after 4 months.

Item No. B.22: Transfer capability determination by the states -- Agenda by NPC

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

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

In 118th OCC advised Odisha SLDC, WBSLDC, DVC & SLDC, Bihar to upload their monthly TTC/ATC on their website.

OCC also advised Jharkhand and Sikkim SLDC to initiate the TTC/ATC computations of their control area in-consultation with ERLDC.

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

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

Bihar and OPTCL agreed to implement.

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

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

ERLDC informed that, Import / Export TTC for DVC for April 2016 are available in the website of DVC. But the underlying assumptions, limiting constraints etc. are not mentioned. It is therefore

suggested that all load-serving control areas in Eastern Region may please endeavor to publish their respective TTC/ATC figures as follows:

Format for TTC declaration:

Import TTC (example)

S.No	Control Area	TTC	RM	ATC	Limiting contingency & loading of the limiting equipment under that contingency
1	W. Bengal				
2	Odisha				
Etc.	Etc.				

Assumptions : W. Bengal (example)

Station-wise MW generation considered (132kV & above)	Injection(+) / Withdrawal(-) considered (MW) for each embedded IPP at 132kV and above (if any)	S/Stn-wise demand (MW) considered (132kV & above)	Lines / elements considered to be normally switched off or under forced outage (if any)	Generating units under forced outage (if any)	SPS considered (if any)

Export TTC (example)

S.No	Control Area	TTC	RM	ATC	Limiting contingency & loading of the limiting equipment under that contingency
1	W. Bengal				
2	Odisha				
3	Bihar				
4	Jharkhand				
5	DVC				

Members may note and update.

Deliberation in the meeting

Members noted.

Item No. B.23: Reasons for demand –supply gap and its variation -- Agenda by NPC

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

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

119th OCC advised all the constituents to comply.

Members may update.

Deliberation in the meeting

Members noted.

Item No. B.24: 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.

It was informed that JUSNL, Sikkim and MPL have not yet replied to CERC on non-availability of telemetry.

OCC advised JUSNL, Sikkim and MPL to submit their reply to CERC at the earliest.

In 121st OCC, ERLDC presented the updated telemetry status and informed that every month they were posting the updated status at ERLDC website. The updated status is enclosed at **Annexure-B.24**.

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

Members may update.

Deliberation in the meeting

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

Item No. B.25: 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.25**.

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

Members may update.

Deliberation in the meeting

*Updated status is enclosed at **Annexure-B.25**.*

Item No. B.26: 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.26**.

Members may update the latest status.

Deliberation in the meeting

Members noted.

Item No. B.27: 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.

In 121st OCC, members updated the latest status as follows:

Utility	Scope	Installed Locations	Number of locations where 1 st set of Measurements Completed	Number of locations where 2 nd set of Measurements Completed
JUSNL	67	27	21	19
BSPTCL	59	52	52	37
WBSETCL	73	70	43	
OPTCL	164	102	102	42
Sikkim	12	9	6	6
Powergrid ER 1	99	99	99	47
Powergrid ER 2	40	40	40	40
Powergrid Odisha	42	42	42	42

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

Members may update.

Deliberation in the meeting

Members updated status in above table.

Item No. B.28: Mock Black start exercises in Eastern Region – ERLDC

i) The status of black start exercises

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

Sl no	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	U.Kolab	Last week of May, 2016	July 2016	Last Week of January 2017	
2	Maithon (To be tested in islanded mode)	1 st week of June 2016	July 2016	1 st Week of February 2017	
3	Rengali	2 nd week of June 2016	July 2016	Last week of November 2016	
4	U. Indarvati	3 rd week of June 2016	July 2016	2 nd week of February 2017	
5	Subarnarekha	1 st week of October 2016		1 st week of January 2017	

6	Balimela	3 rd week of October 2016		1 st week of March 2017	
7	Teesta-V	2 nd week of Nov 2016		Last week of February 2017	
8	Chuzachen	Last Week of May 2016		January 2017	
9	Burla	Last Week of June 2016		Last week of February 2017	
10	TLDP-III	1 st Week of June 2016		2 nd Week of January 2017	
11	TLDP-IV	Last Week of June 2016		1 st Week of February 2017	

Members may update.

Deliberation in the meeting

Members updated the tentative dates in above table.

ii) Testing of DG sets meant for Black start

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

Constituents may kindly ensure compliance.

Deliberation in the meeting

Members noted.

Item No. B.29: Restricted Governor Mode of Operation

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

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

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

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

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

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

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

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

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

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

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

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

In 117th OCC, ERLDC informed that the performances of the governor response are being uploaded in the yahoo group. It was also informed that DVC, CESC and Odisha were already added in the web-group.

OCC advised other constituents to join the web group at the earliest by providing their e-mail ids (preferably yahoo ids).

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

OCC advised all the other constituents to join the web group at the earliest by providing their e-mail ids (preferably yahoo ids).

Members may update.

Deliberation in the meeting

ERLDC presented the Generators and load response for the following events:

- 1. On 01.05.16, at 12:24 hrs. 400 kV JP Nigrie-Satna-1 tripped on R-N fault and circuit-2 tripped on DT receipt. At the time of tripping each circuit was carrying 539 MW (approximately). There was generation loss of 1064 MW due to tripping of Unit-I & II at JP Nigrie station. The frequency fall during the event was 0.12 Hz.*
- 2. On 03.05.16, at 21:07 hrs, 400kV JP Nigrie -Satna -1 & 2 tripped on R-N fault resulting in generation loss of 1166 MW due to tripping of units on loss of evacuation paths and frequency dip of 0.14 Hz.*
- 3. At 17:31 on 18-05-16 hrs, frequency rose up by 0.35 Hz due to sudden load loss in Haryana, Up, Delhi and Punjab.*
- 4. On 22.05.2016, at around 21:11 hrs, 400 KV Jhakri-Panchkula II tripped and then Jhakri-Rampur II also tripped. This led to SPS operation resulting in tripping of 2 units each at N.Jhakri (500 MW loss), K.Wangtoo (500 MW loss) and 5 units at Rampur (300 MW loss).*

ERLDC informed that the response is posted at web group.

OCC advised all the constituents to calculate their response and take appropriate actions to improve the response.

OCC advised WBSETCL, JUSNL, Bihar, NTPC and NHPC to join the yahoo group at the earliest by providing their e-mail ids (preferably yahoo ids).

Item No. B.30: Reactive Power performance of Generators and GT tap position optimization

Generating stations have been monitored for sample dates in the month of May, 2016:

In 120th OCC, it was also informed that the data from Sagardighi TPS and Sterlite is not available, WBPDC and Sterlite were advised to check and resolve it.

ERLDC may present.

Deliberation in the meeting

*ERLDC presented the performance of the generators and informed that the performance of DSTPS, Mejia-B, GMR and APNRL need improvement. Status of Generator performance is enclosed at **Annexure- B.30**.*

OCC advised DSTPS, Mejia-B, GMR and APNRL to look into.

a) Schedule for reactive capability tests

The following was status of regarding reactive capability testing:

- a. Adhunik TPS(both units) –Yet to be confirmed by Adhunik
- b. DSTPS (Unit#2 only pending) – Not yet done
- c. Koderma TPS Unit#1
- d. JITPL(both units) – Procedure given. Not yet done
- e. Barh TPS – In June 2016

Members may update.

Deliberation in the meeting

ERLDC informed that the following reactive capability test for the following generators is also pending:

- *Raghunatpur (both units)*
- *GMR (Three units)*
- *Haldia TPS (Unit #4)*

PART C:: OPERATIONAL PLANNING

Item no. C.1: Shutdown proposal of transmission lines and generating units for the month of July' 16

Members may finalize the Shutdown proposals of the generating stations for the month of July'16 as placed at **Annexure-C.1**.

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

Deliberation in the meeting

*Approved maintenance programme of generators and transmission elements for the month of July, 2016 is given at **Annexure-C.1**.*

A. Shut down of 132 KV elements at Birpara and Malda S/S for Isolator retrofitting work.

Shut applied earlier but denied at SLDC level. Contractor mobilized many times but due to non-availability of shut down the work could not be completed. Minimum possible shut down time considered for carrying out the work. Considering availability of present shut down of 132 KV Birpara(PG)-132 KV Birpara(WB) –I & II Fdr on daily basis (One feeder at a time) up to 11.06.2016, remaining shut downs required for balance isolators are listed below for reference: -

BIRPARA S/S					
SI No	Name of Element	Date	From Time	To Time	Remarks
01.	132 KV Main Bus	14.06.2016	06:00 Hrs	07:30 Hrs	For replacement of Main Bus isolator of 132 KV Birpara(PG)-132 Birpara (WB)-I. After opening bus dropper, the subject feeder will be charged through TBC.
02.	132 KV Main Bus	17.06.2016	06:00 Hrs	07:30 Hrs	For normalization of Main Bus isolator of 132 KV Birpara (PG)-132 Birpara (WB)-I & replacement of Main Bus isolator of 132 KV Birpara (PG)-132 Birpara (WB)-II. After opening bus dropper, the subject feeder will be charged through TBC.
03.	132 KV Main Bus	20.06.2016	06:00 Hrs	07:30 Hrs	For normalization of Main Bus isolator of 132 KV Birpara (PG)-132 Birpara (WB)-II & replacement of Main Bus isolator of 132 KV TBC.
04.	132 KV Main Bus	23.06.2016	06:00 Hrs	07:30 Hrs	For normalization of Main Bus isolator of 132 KV TBC.
MALDA S/S					
01.	132 KV Main Bus	26.06.2016	06:00 Hrs	07:30 Hrs	For replacement of Main Bus isolator of 132 KV Malda (PG)-132 Malda (WB)-I. After opening bus dropper, the subject feeder will be charged through TBC.
02.	132 KV Main Bus	30.06.2016	06:00 Hrs	07:30 Hrs	For normalization of Main Bus isolator of 132 KV Malda (PG)-132 Malda (WB)-I & replacement of Main Bus isolator of 132 KV Malda (PG)-132 Malda (WB)-II. After opening bus dropper, the subject feeder will be charged through TBC.
03.	132 KV Main Bus	03.07.2016	06:00 Hrs	07:30 Hrs	For normalization of Main Bus isolator of 132 KV Malda (PG)-132 Malda (WB)-II & replacement of Main Bus isolator of 132 KV TBC.
04.	132 KV Main Bus	07.07.2016	06:00 Hrs	07:30 Hrs	For normalization of Main Bus isolator of 132 KV TBC.

It may be noted that, as contractor de-mobilized in earlier cases also, non-availability of S/D's at this time may cost POWERGRID an unnecessary cost for demobilization & contract overrun.

Keeping in view, above S/D's may be kindly concurred for completion of Scope.

Deliberation in the meeting

WBSETCL did not agree for the shutdown and requested Powergrid to take the shutdown in November, 2016.

B. Shut down of 220 KV Birpara-Salakati-D/C (Alternatively) for insulator replacement work.

For replacement of porcelain insulator strings by long rod insulator, S/D of 220 KV Birpara-Salakati-D/C required alternatively for carrying out the work from 11/06/2016 to 27/06/2016. All required materials are available at site and on confirmation contractor will be mobilized.

It may be noted that after replacement of, long rod insulator in some portion of the line, tripping has reduced significantly.

Keeping in view, above S/D's may be kindly concurred for further improvement of the system.

Deliberation in the meeting

OCC concurred.

C. Nitrogen Injection Fire Fighting System (NIFS) commissioning at 150 MVA ICT-I & II of Malda S/S.

For commissioning of NIFS system at 160 MVA ICT-I & II, of Malda S/S shut down required in following manner: -

Sl No	Item Description	From Date	To Date	From Time	To Time	Nature	Remarks
01.	160 MVA ICT-II	28.06.2016	29.06.2016	08:00	15:00	OCB	Other 160 MVA & 50 MVA ICT will be in service.
02.	160 MVA ICT-I	30.06.2016	30.06.2016	07:00	17:00	ODB	Other 160 MVA & 50 MVA ICT will be in service.

Keeping in view, above S/D's may be kindly concurred for further improvement of the system.

Deliberation in the meeting

WBSETCL agreed for the shutdown as follows:

Sl No	Item Description	From Date	To Date	From Time	To Time	Nature	Remarks
01.	160 MVA ICT-II	28.06.2016	29.06.2016	08:00	----	ODB with extended hours	Other 160 MVA & 50 MVA ICT will be in service.
02.	160 MVA ICT-I	30.06.2016	30.06.2016	07:00	17:00	ODB	Other 160 MVA & 50 MVA ICT will be in service.

Item no. C.2: Anticipated power supply position during July'16

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of July'16 were prepared by ERPC Secretariat on the basis of Provisional LGBR for 2015-16 and feedback of constituents, keeping in view that the units are available for generation and expected load growth etc. is at **Annexure-C.2**.

Members may confirm.

Deliberation in the meeting

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

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

(i) Generating units:

Generating Station	UNIT	CAP(MW)	REASONS FOR OUTAGE	OUTAGE DATE
STERLITE	3	600	OUTAGE FOR LOW SCHEDULE	15-Jan-16
STERLITE	1	600	OUTAGE FOR LOW SCHEDULE	26-May-16
MEJIA	4	210	LOW DEMAND	24-Mar-16
MEJIA	2	210	LOW DEMAND	8-May-16
MEJIA	3	210	LOW DEMAND	5-May-16
BOKARO B	3	210	ECOMONIZER TUBE LEAKAGE	20-May-16
BOKARO B	2	210	PROBLEM IN COAL CRUSHER	15-Apr-16
WARIA	4	210	ROTOR PROBLEM	30-Apr-16
KODERMA	1	500	LOW DEMAND	22-Apr-16
DPL	7	300	REASONS NOT FURNISHED	1-May-16
TENUGHAT	2	210	ROTOR PROBLEM	22-Apr-16
RAGHUNATHPUR	2	600	ROTOR PROBLEM	14-Feb-16
RAGHUNATHPUR	1	600	STAEM LEAKAGE IN TURBINE	1-Jun-16
FARAKKA	4	500	GT TRIPPED	27-May-16
TENUGHAT	1	210	BEARING PROBLEM	31-May-16
IB THERMAL	1	210	AMP	12-May-16
SAGARDIGHI	2	210	TRIPPED	2-Jun-16
BARH	4	660	FLAME FAILURE	2-Jun-16

(ii) Transmission elements

Name of the Line/Element	Outage Date	Reason
400 KV MERAMANDLI-NEW DUBRI D/C	10.05.16	TOWER DAMAGED AT LOC : 8/0 , 8/1 & 8/2 IN THREE LOC (4 KM FROM MERAMANDLI).
220 KV TENUGHAT - BIHARSHARIFF	21/05/16	TOWER COLLAPSED AT LOC NO-03.
400 KV MEERAMANDALI-MENDHASAL S/C	23/05/16	TOWER COLLAPSED NEAR TO MENDHASAL, LOC NO 180,181,182.
220 KV GAYA-DEHRI-D/C	27/05/16	TOWER COLLAPSED AT LOC NO 275 FROM GAYA END.
400 KV STERLITE-MERAMANDLI-D/C	27/05/16	TOWER NO 34 TWISTED (NEAR TO SEL END) .

Members may update.

Deliberation in the meeting

Members noted.

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

New generating units:

S.No.	Power Plant	Plant Size	Expected date
1	Sagardighi Unit #3	500 MW	

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	July, 2016

Members may update.

Deliberation in the meeting

Members noted.

PART D:: OTHER ISSUES**Item no. D.1: UFR operation during the month of May'16**

System frequency touched a maximum of 50.44Hz at 17:31Hrs of 18/05/16 and a minimum of 49.56Hz at 22:12Hrs of 26/05/16. Accordingly, no report of operation of UFR has been received from any of the constituents.

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.2: Non-compliance of directions issued by SLDC

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

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

No report from any constituent has yet received. Hence, ERLDC would be considering 'Nil' report for all constituents for May'16.

Members may note.

Deliberation in the meeting

Members noted.

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

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	220kV Madhepura S/s	04/05/16 at 06:08hrs	0	110	Various 220kV & 132kV lines from 220kV Madhepura S/s tripped due to snapping of B-Ph Jumper of 220kV Purnea- Madhepura Ckt-I at Loc. No 28.	GD-1
2	400kV Mendhasal S/s	06/05/16 at 14:13hrs	0	500	Various 400kV, 220kV & ICT tripped from 400kV Mendhasal S/s due to tripping of 400kV Mendhasal-New Duburi line on B-Ph E/f.	GD-1
3	400kV Meeramundali S/s	10/05/16 at 15:39hrs	1310	0	Various 400kV, 220kV and ICTs at 400kV Meeramundali S/s tripped due to inclement weather condition.	GD-1
4	220kV Chandil S/s	14/05/16 at 16:46hrs	0	190	Various 220kV & 132kV lines from 220kV Chandil S/s tripped due to tripping of 220kV Chandil- Santaldih on Y-B-Ph fault.	GD-1
5	220kV Chandil S/s	15/05/16 at 16:45hrs	0	180	Various 220kV & 132kV lines from 220kV Chandil S/s tripped due to inclement weather condition at Chandil.	GD-1
6	132kV Purnea S/s	17/05/16 at 20:48hrs	0	120	Various 132kV lines from 132kV Purnea (PG & BSPHCL) S/s tripped due to inclement weather condition.	GD-1
7	400kV Mendhasal S/s	23/05/16 at 17:20hrs	0	450	Various 400kV lines from 400kV Mendhasal S/s tripped due to tripping of 400kV Meeramundali- Mendhasal S/c because of tower collapsed at Loc. No 180, 181 & 182.	GD-1
8	400kV Koderma S/s	25/05/16 at 08:53hrs	400	250	Multiple tripping occurred from 400kV Koderma S/s due to inclement weather condition.	GD-1
9	400kV Mendhasal S/s	25/05/16 at 15:20hrs	0	450	Various 400kV & 220kV at 400kV Mendhasal S/s tripped due to inclement weather condition.	GD-1
10	HVDC Sasaram S/s	30/05/16 at 15:56hrs	0	450	Multiple tripping occurred from HVDC Sasaram S/s due to tripping of 400/220kV, 500 MVA ICT-I on operation PRD (pressure relief Device)	GD-1

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.4: Any other items

1) O & M of Lines, Bays & Equipments available in sub-stations of OPTCL, OHPC & PGCIL-- Agenda Items by OPTCL

OPTCL vide letter dated 06.06.2016 informed that a joint meeting was called on 26.04.16 and 02.06.16 for discussion of Finalizing modalities for O & M charges of Lines, Bays & Equipments available in sub-stations of OPTCL, OHPC & PGCIL and Maintenance of 400 kV Main and Tie bays of OHPC at Indravati S/s of PGCIL. But PGCIL has failed to attend on both the occasions.

Therefore, the summary of the issue is attached at **Annexure-D.4.1** for discussion in the OCC forum.

Members may discuss.

Deliberation in the meeting

It was informed that in 44th PCC meeting held in ERPC on 9.6.16 it was pointed out by OPTCL and PGCIL (Odisha) that because of some mutual co-ordination problem many issues related to O&M of line, bays and equipments available in OPTCL, OHPC and Powergrid sub-stations are not getting properly addressed.

In order to resolve these pending issues PCC advised Member Secretary to have joint interaction with OPTCL/GRIDCO and Powergrid (Odisha) at Bhubaneswar on 17.6.16 during the course of workshop on “Emerging Issues in Power Sector” jointly organized by ERPC, ERLDC and Gridco at Bhubaneswar on 17-18/6/2016.

Meeting ended with vote of thanks to the chair.

Participants in the 122nd OCC meeting

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 09.06.2016 (Thursday)


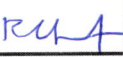

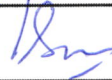


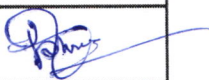
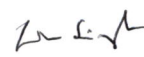

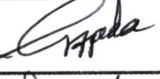
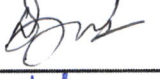
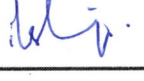
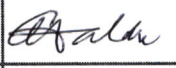

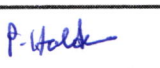

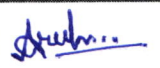
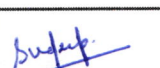
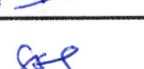

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Participants in the 122nd OCC meeting

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

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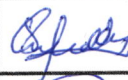


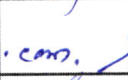
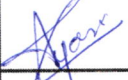



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Participants in the 122nd OCC meeting

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 09.06.2016 (Thursday)

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48	B. Pam	CE/SDC/DRC	9903247102	bpam.drc@gmail.com	
49	S. Kejriwal	EE, ERPC	9831919509	shyamites11@gmail.com	
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Annexure-B2

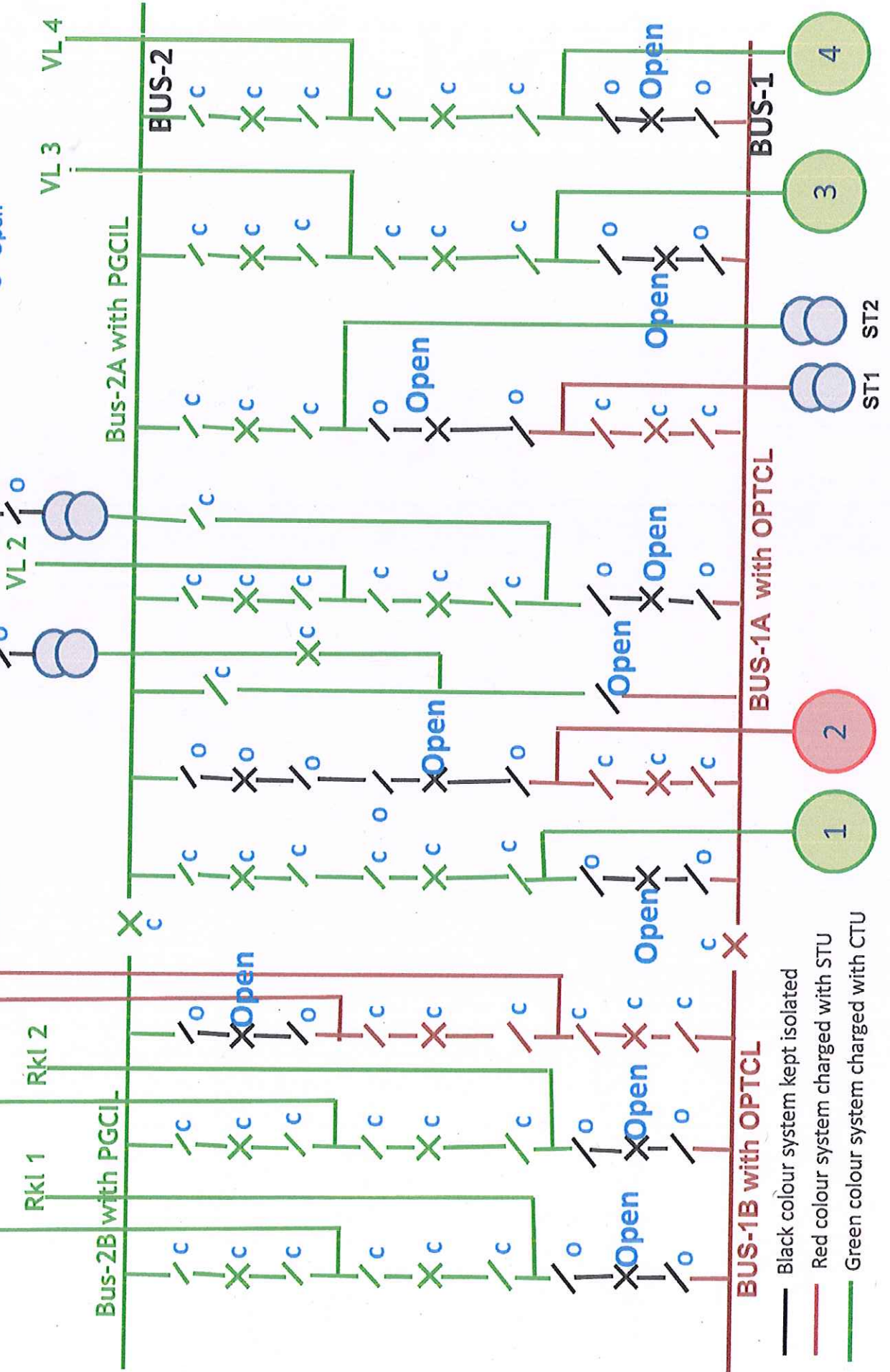
Sl. No.	Name of the Constituent	Name of the Project	Date of Approval	Target Completion	Amount Approved	Amount of Grant	Amount Drawn	Status
1	WBSETCL	Renovation & up-gradation of protection system of 220 kV & 400 kV Substations in West Bengal	31-12-14	---	120.67 Cr.	108.60 Cr.	11.04 Cr	95 % Supply Completed
2	WBSETCL	Transmission System Improvement of WBSETCL						

ANNEXURE - D

ICT 2 to CPP 9x135 ICT 1 to CPP 9x135

Raigarh-1 Raigarh-2 Mera-1 Mera-2

C - Close
O - Open



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

1. State/Centre :

2. Month :

3. Year :

[illegible]



भारत सरकार
विद्युत मंत्रालय
केंद्रीय विद्युत प्राधिकरण
ग्रिड प्रबंधन प्रभाग



सेवा भवन, आर. के. पुरम, नई दिल्ली - 110066

(ISO 9001:2008)

वैबसाइट / Website: www.cea.nic.in

Subject: - Reference from MNRE regarding compilation of data for meeting renewable energy targets of 175GW by 2020.

Reference is invited to MoP letter no. 23/2/2005-R&R(Vol-XI), dated 22/03/2016 enclosing therewith MNRE letter dated 02/03/2016, on the above cited subject (copies enclosed).

In this regard, it is requested that concerned State Utilities/ Generating companies in the region may please be asked to submit their data. Data as received, may please be forwarded to GM Division for compilation.

Encl-As above

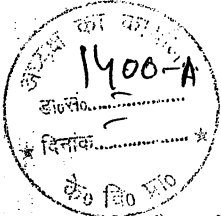
Vijay Menghani
29.3.16
(Vijay Menghani)
Director

Member Secretary(NRPC/WRPC/SRPC/ERPC/NERPC)

No: 1/AI/MRP/GM-2016 474-83 Date: 29/03/2016

No. 23/2/2005-R&R (Vol-XI)
Government of India
Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
New Delhi, 22nd March, 2016



2nd - M(S) / M(S GED) / M(I)
22/3

To

1. Chairperson, CEA, Sewa Bhawan, R.K. Puram, New Delhi.
2. Secretary, CERC/FOR, Chanderlok Building, Janpath, New Delhi.

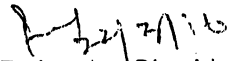
Subject: Reference from MNRE regarding compilation of data for meeting renewable energy targets of 175 GW by 2020.

Sir/Madam,

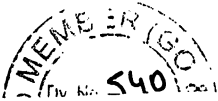
I am directed to forward herewith a copy of MNRE D.O. letter No. 11/7/2013-EFM dated 2.3.2016 regarding compilation of data for meeting renewable energy targets of 175 GW by 2020 for necessary action.

Encl: As above

Yours faithfully.


(Rajendra Singh)

Under Secretary to the Government of India
Tel: 2373 0265





सत्यमेव जयते

वर्षा जोशी, आई.ए.एस.
संयुक्त सचिव

Varsha Joshi, IAS
Joint Secretary

भारत सरकार
नवीन और नवीकरणीय ऊर्जा मंत्रालय
Government of India
Ministry of New and Renewable Energy

D.O. No. 11/7/2013-EFM

Dated: 23.2.2016

India has announced a very ambitious renewable energy capacity target of 175 GW by 2020. For achieving the 175 GW target, apart from focus on actual deployment of RE equipment on ground, we need to focus on various policy measures and R&D development in new areas. For translating Hon'ble Prime Minister's vision on renewable energy into reality, host of measures are required to be undertaken apart from the measures recently announced in National Tariff Policy.

2. One such measure include examining balancing potential available to handle the today's RE generation and even higher shares of RE generation and by 2022. Role of quality forecasting in efficient balancing is being taken care of in preparation of REMCs DPRs for the RE rich States. Further, States have started coming up with forecasting and scheduling regulations; so far Rajasthan, Madhya Pradesh, Karnataka and Tamil Nadu have done this. The compilation of data on the following items will help in taking measures how to utilize the regional and national potential of balancing and how to distribute the effort of RE integration within all States, and may kindly be considered early.

- Data on the technical capacities of power plants such as minimum load, rate of change of generation, start up time and down time, minimum standstill time, State-wise and region-wise are important for knowing critically the quantity of available balancing potential at any given time. Regional balancing potential needs to be tapped in order to enhance integration of RE.
 - Thermal balancing potential of RE rich States today and up to 2020 (region-wise also).
 - Theoretical hydro balancing potential of States today and up to 2020 (region-wise also).
 - Pumped hydro projects capabilities today and up to 2020 (region-wise also).
 - Forecasting and scheduling regulations by States (apart from four States mentioned above).
3. Balancing potential availability region-wise would ensure large scale integration of RE.

Yours sincerely,
Sd/-

[Varsha Joshi]

Ms. Jyoti Arora
Joint Secretary (Power)
Rafi Marg, Sansad Marg Area
New Delhi, Delhi 110001

Copy to: Shri P.K. Pujari, Secretary, Ministry of Power, Shram Shakti Marg, New Delhi

O/o SECY. (P)

Dy. No. 142128/EE

Date: 14/3/16

[Varsha Joshi]
Joint Secretary

असत्य ऊर्जा से देश विकास

ब्लॉक नं. 14, केन्द्रीय कार्यालय परिसर, लोदी रोड, नई दिल्ली 110003
Block No. 14, CGO Complex, Lodi Road, New Delhi 110 003
Tel. : 011-24361027 Fax : 011-24367413 Email : varsha.joshi@nic.in

गांव गांव विजली, घर घर प्रकाश.

Dynamic data of Generator Models required in PSSE for Simulations

- Data received from
 - NTPC Kahalgaon & Barh, Farakka, TTPS
 - NHPC Teesta-V,
 - DVC, WBPDC, CESC
 - GMR, JITPL, MPL and Vedanta Ltd.
 - OHPC
 - Balimela, Chiplima
 - IMFA CPP Odisha
- Data not received from
 - NTPC TSTPS, Kanti TPS
 - NHPC Rangit
 - JUVNL, OPGC
 - OHPC
 - Indarvati, Rengali, U. Kolab, Burla
 - Adunik TPS, Vedanta (135 MW units)

Details of Eastern Region

Annexure-B24

A. Telemetry not provided

A.1 Generating Stations

Sl. No.	User Name	Name of Generation Stations	Date of first sysnchonisation	Total Generation Capacity (in MW)	Remarks by constituentes / ERLDC 05.05.16
1	WBSETCL	Haldia (2 x 300)	Jan-15	600	ERLDC is not getting any real time ISOLATOR status ,SOE from HEL except Line, Unit site MW /MVAR. No response.
1	IPP	400 KV GMR (3X 350 MW)	Apr-13	1050	As per ERLDC guidelines no express voice /VOIP phones and stand by channel provided .
2		400 JITPL (600 x 2)		1200	Data Are highly instable . No stand by data channel and express voice commuication integrated with ERLDC New Exchange
3		IBEUL (2 x 350 MW)		700	No stand by data channel and as per ERLDC guidelines no express voice /VOIP phones provided .
		Total (Non-telemetered stations)	4	3550	

A.2 Sub - Stations (765 & 400 kV)

Sl. No.	User Name	Name of sub-Stations	Voltage level	Date of first sysnchonisation	Remarks by constituentes / ERLDC 05.05.16
1	OPTCL	JSPL (Meramundali -400)	400 kV	Sep'10	Status are not reporting.

A.3 Sub - Stations (220 kV & 132 kV)

Sl. No.	User Name	Name of sub-Stations	Voltage level	Target date as per User	Remarks by constituentes / ERLDC 05.05.16
1	OPTCL	OPTCL CPP : 220 KV BPSL,CONCAST,BSL,JSL	220 / 132 kV	Dec-13	CONCAST NO DATA , JSL NO KV/HZ. BSL NO HZ .BPSL NO Bus Kv .
1	BSEB	Gopalganj	220 kV		Integrated Over PLCC /MUX
2		Darbhanga	220 kV		RTU under commissioning under upgradation project.
3		Kisanganj	132 KV		RTU commssioned over GPRS .
4		Arrah	132 KV		Arrah RTU commssioned /integrated but due to rennovation work at site stopped communicating. .
5		Raigir	132 KV		RTU commissioned over PLCC & MUX.
6		Jagdishpur	132 KV		RTU under commissioning under upgradation project.
7		Sipara	220 KV		Integrated Over PLCC & MUX.
8		Hajipur (New)	220 KV		Integrated Over SDH.
9		Pusaali	220 KV		Integrated Over GPRS .
1	JSEB	Hatia New	220 kV	No Time Schedule	No Data available .No response .
2		Japla	132 KV		No Data available .No response .
3		Dumka	220 KV		No Data available .No response .

B. Telemetry provided but not working / working intermittently

B.1 Generating Stations

Sl. No.	User Name	Name of Generation Stations	Total Generation Capacity (in MW)	Target date as per User	Remarks by constituentes / ERLDC 05.05.16
1	OPTCL	220 KV Vedanta (9X 135 MW)	1215	Dec-13	Some CB / Isolators and KV / HZ point yet to be provided.No response .
1	JSEB	220 KV Tenughat (2X 210 MW)	420	Time Schedule not submitted	Data highly intermittent
2		220 KV Patratu (4x 50 + 2x100 + 4x110)	840	Time Schedule not submitted	Data highly intermittent
	BSEB	KBUNL			Data integrated .
1	NTPC	400 kV Farakka : (3x 200 + 2 x 500 MW + 600) Unit-6 and Unit -5 LV side MW/MVAR not available	2100	Time Schedule not submitted	No response .
2		BRBCL/Nabinagar TPP (4x250 MW)	1000	Time Schedule not submitted	No data available. As per ERLDC guidelines no express voice /VOIP phones provided .
3		BARH (2x550 MW)	1100		Unit site data not available since last 1 year.
1	Vedanta	SEL (4 x550 MW)	2200		All data stopped reporting since March 2016

B.2		Sub - Stations			Remarks by constituentes / ERLDC 05.05.16
Sl. No.	User Name	Name of sub-Stations	Voltage level	Target date as per User	
					Data not reporting
1	BSPTCL	Barauni	132 kV		Under rennovation and modernization . Target July 2016
2		Dumraon	132 kV		Data reporting
3		Khagaul	132 kV		Data intermittent
5		Darbhangha	220 kv &132 kV		RTU under commissioning under upgradation project.
6		Dehri	220 KV		presently not reporting due to RTU problem. M/s chemtrols RTU vendor directed to rectify problem. Target- May-16
7		Khagul	220 KV		Data reporting
8		Samastipur	220 kV		RTU reporting.
9		Sonenagar	132 kV		Under rennovation and modernization . Target July 2016
10		sultangaunj	132 kV		Under rennovation and modernization . Target July 2016
11		Lakhisarai	132		Data Intermittent
12		Karmanasa	132		Under rennovation and modernization . Target July 2016
13		Kahalgaon	132 kV		Data Intermittent
14		Jamaui	132		Data Intermittent
15		Begusarai	220		RTU reporting.
16		Banka	220 kv &132 kV		Data Intermittent
17		Valmikinagar	132 kV		Under rennovation and modernization . Target July 2016
18		Koshi	132 kV		Under rennovation and modernization . Target July 2016
1	JSEB	Jamtara	132 kV	Time Schedule not submitted	Data not available
2		Deoghar	132 kV	Time Schedule not submitted	Data not available
3		Garwah	132 kV	Time Schedule not submitted	Data not available
4		Goelkera	132 kV	Time Schedule not submitted	Data not available
5		Jaduguda	132 kV	Time Schedule not submitted	Data not available
6		Kendposi	132 kV	Time Schedule not submitted	Highly Intermittent
1	SIKKIM	Melli	132 KV		Data integrated.stopped reporting
1	PGCIL	Maithon	400 kV		Highly Intermittent
2		Ranchi 400	400 kV		Highly Intermittent
3		NTPC Kahalgaon	400 kV		Highly Intermittent
4		Malda	400 kV		Highly Intermittent
5		Dalkhola	220 kV		Highly Intermittent
6		Siliguri220	220 kV		Highly Intermittent
7		Purnea 400	400 kV		Highly Intermittent
8		Baripada	400 kV		Highly Intermittent
9		Subhasgram	400 kV		Highly Intermittent
10		MPL	400 kV		Highly Intermittent
11		Gaya	765 kV		Highly Intermittent
12		Jharsuguda	765 kV		Highly Intermittent
13		Banka	400 kV		Highly Intermittent
14		Indbharat	400 kV		Highly Intermittent
15		Lakhisarai	400 kV		Highly Intermittent
1	NTPC	Lalmatia	220 kV		Data stoppped reporting since Jan 2016

Orange phone Not Available

A. Substation and Station

S.No.	RTU	Extension No		Status
		Analog FXS	IP Phone	
1	Subashgram		20330015	Port Down/Phone Disconnected
2	Rangpoo	20330139	20330020	Port Down/Phone Disconnected
3	New Malli	20330140	20330021	Port Down/Phone Disconnected
4	Siliguri 220		20330023	Phone Adapter is missing
5	Siliguri 400		20330024	Port Down/Phone Disconnected
6	Jharsugura		20330040	Port Down/Phone Disconnected
7	Kalabadia		20330055	Link is not available
8	Keonjhar CS		20330047	Link is not available
9	Talcher HVDC			Link is not available
10	JITPL			Link is not available
11	Birpara		20330053	Port Down/Phone Disconnected
12	Bolangir		20330064	Link is not available
13	Jaypore		20330048	Link is not available
14	Indravati		20330063	Link is not available
15	Mujaffarpur		20330050	Port Down/Phone Disconnected
16	Teesta NHPC		20330062	Link is not available
17	SEL			Ports details Not available
18	GMR			Ports details Not available
19	Lalmatia			Ports details Not available
20	Bheramera HVDC(Bangladesh)			Ports details Not available
21	Adhunik Power, Jamshedpur			Link is not available

B SLDC

1	WBSETCL , Howarh			Orange phone not working
2	JUSNL ,Howarh			Orange phone not working
3	SLDC Sikkim			Orange phone not working

SAS/RTU lacking stand by channel

S.N.	Substation Name	Main RLDC		Backup RLDC		Remarks
		Main Channel	Std By Channel	Main Channel	Std By Channel	
1	Jeypore	Yes	NO	NO	NO	
2	Talcher HVDC	Yes	NO	NO	NO	
3	Indravati	Yes	NO	NO	NO	
4	Patna	Yes	NO	NO	NO	
5	Rengali	Yes	NO	NO	NO	
6	NTPC Talcher	Yes	NO	NO	NO	
7	Rourkela	Yes	NO	NO	NO	
8	Jamshepur	Yes	NO	NO	NO	
9	Maithon	Yes	NO	NO	NO	
10	Ranchi	Yes	NO	NO	NO	
11	Durgapur	Yes	NO	NO	NO	
12	Farakka NTPC	Yes	NO	NO	NO	
13	Kahalgaon NTPC	Yes	NO	NO	NO	
14	Biharshariff	Yes	Yes	NO	NO	
15	Baharampur	Yes	NO	NO	NO	
16	Lalmatia	Yes	NO	NO	NO	
17	Malda	Yes	NO	NO	NO	
18	Dalkhola	Yes	NO	NO	NO	
19	Purnea -220	Yes	NO	NO	NO	
20	Siliguri	Yes	NO	NO	NO	
21	Birpara	Yes	NO	NO	NO	
22	Binaguri	Yes	Yes	NO	NO	
23	Rangit NHPC	Yes	NO	NO	NO	
24	Purena -400	Yes	NO	NO	NO	
25	Sasaram	Yes	NO	NO	NO	
26	Baripada	Yes	NO	NO	NO	
27	Subhasgram	Yes	NO	NO	NO	
28	Teesta	Yes	NO	NO	NO	
29	Muzaffarpur	Yes	NO	NO	NO	
30	Gangtok	Yes	NO	NO	NO	
31	Arrah	Yes	NO	NO	NO	
32	Adhunik	Yes	NO	NO	NO	
33	Sterlite	Yes	NO	NO	NO	
34	MPL	Yes	NO	NO	NO	
35	Barh NTPC	Yes	NO	NO	NO	
36	Gaya	Yes	NO	NO	NO	
37	Bolangir	Yes	NO	NO	NO	
38	Keonjhar	Yes	NO	NO	NO	
39	Jorthang	Yes	NO	NO	NO	
40	Angul	Yes	NO	NO	NO	
41	Jharsuguda	Yes	NO	NO	NO	
42	Gati	Yes	NO	NO	NO	
43	Banka	Yes	NO	NO	NO	

44	Bheramara	Yes	NO	NO	NO	
45	Rangpo	Yes	NO	NO	NO	
46	Lakhisarai	Yes	NO	NO	NO	
47	Indbharat	Yes	NO	NO	NO	
48	Chaibasa	Yes	NO	NO	NO	
49	Nabinagar NTPC	Yes	NO	NO	NO	
50	JITPL	Yes	NO	NO	NO	
51	Melli (PG)	Yes	NO	NO	NO	
52	Klsanganj	Yes	Yes	NO	NO	

SLDC to ERLDC protection path not provided as per ERLDC.

S.N.	Link	Main RLDC		Backup RLDC	
		Main Channel	Std By Channel	Main Channel	Std By Channel
1	ERLDC - OPTCL	Yes	NO	NO	NO
2	ERLDC - BSPTCL	Yes	NO	NO	NO
3	ERLDC - JUSNL	Yes	NO	NO	NO
4	ERLDC - WBSETCL	Yes	NO	NO	NO
5	ERLDC - DVC	Yes	NO	NO	NO
6	ERLDC - Sikkim	Yes	NO	NO	NO
7	ERLDC - NLDC	Yes	NO	Yes	Yes

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-B30

Sl Number	Plant	Performance summary	Remarks
1	FSTPP	Satisfactory	
2	KhSTPP	Satisfactory	
3	TSTPP	Satisfactory	
4	Kolaghat	Satisfactory	
5	Bakreswar	Satisfactory	
6	Sagardighi	Voltage Data coming in steps	
7	Mejia-B	Improvement required	
8	DSTPS	Improvement required	
19	APNRL	Improvement required	
10	Sterlite	Data not available	
11	MPL	Satisfactory	
12	GMR	Improvement required	

Annexure- C.1

Maintenance Schedule of Thermal Generating Units of ER for July-2016

System	Station	Unit	Size (MW)	period		No. of Days	Reason
				From	To		
BSPTCL	MTPS (KUNL)	1	110	15.07.16	15.08.16	31	Overhaul
JUSNL	PTPS	4	40	Jul-16	Aug-16	62	Maintenance
DVC	BTPS'B	2	210	01.07.16	21.07.16	21	AOH
	CTPS	8	250	15.07.16	30.07.16	16	Burner Replacement
ODISHA	TTPS	2	60	13.07.16	27.07.16	15	Boiler Overhaul
		5	110	Jul-16	Jul-16	20	Boiler Overhaul , <i>Unit#5 will be taken after availability of unit#4, .</i>
WBPDCL**	KTPS	3	210	15.07.16	21.07.16	7	Boiler License
	Bandel TPS	3	60	01.07.16	30.10.16	123	RLA + BTG Overhauling
NTPC	*KhSTPS	5	500	05.07.16	29.07.16	25	Boiler+PAPH-5B Turnion Shat Replacement
IPP	VEDANTA	2	600	01.07.16	30.07.16	30	Annual Overhauling
	APNRL	1	270	01.07.16	31.07.16	31	Gen. Overhauling

**EASTERN REGIONAL LOAD DESPATCH CENTRE
KOLKATA**

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 122ND 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	400KV MAIN BUS-I - Baripada	10/06/2016	07:00	10/06/2016	18:00	ODB	ER-II/Odisha	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -I OF GIS	
2	400 KV Talcher- Angul line	10/06/2016	08:00	10/06/2016	14:00	ODB	ER-II/Odisha	Replacement of Polymer pilot without counter weight with Glass insulator at Loc no 36 of LILO line and jumper & corona ring tightening work at all the tension tower.	GMR/JITPL GENERATION MEY BE REVISED SUBJECT TO SYSTEM CONDITION
3	315MVA ICT#2 - Baripada	11/06/2016	07:00	11/06/2016	18:00	ODB	ER-II/Odisha	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -I OF GIS	OPTCL
4	400 KV Meramundali- Angul#II	11/06/2016	08:00	11/06/2016	14:00	ODB	ER-II/Odisha	Replacement of Polymer pilot without counter weight with Glass insulator at Loc no 44 of LILO line and jumper & corona ring tightening work at all the tension tower.	OPTCL
5	220 KV Birapara-Salakati-D/C (One circuit at a time).	11/06/2016	07:00	27/06/2016	17:00	ODB	ER-II/KOL	For replacement of porcealin insulator by Long rod polymer insulator.	NLDC
6	400 KV Malda- Purnea ckt-II	11/06/2016	10:00	12/06/2016	15:00	ODB	ER-II/KOL	Replacement of broken insulators and jumper/hardware fittings tightening works in line	
7	400KV RANGPO- NSLG, CKT-1	11/06/2016	09:30	11/06/2016	18:00	ODB	ER-II/KOL	Relayintegration/NTAMC adaption works.	
8	400KV RANGPO- NSLG, CKT-2	12/06/2016	09:30	12/06/2016	18:00	ODB	ER-II/KOL	Relayintegration/NTAMC adaption works.	
9	400 KV Talcher- Meramundali line - Talcher TL	12/06/2016	08:00	12/06/2016	14:00	ODB	ER-II/Odisha	Jumper and corona ring tightening work at all the tension tower.	OPTCL
10	315MVA ICT#2 - Baripada	13/06/2016	07:00	13/06/2016	18:00	ODB	ER-II/Odisha	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	OPTCL
11	400KV RANGPO- TEESTA-V, CKT-1	13/06/2016	09:30	13/06/2016	18:00	ODB	ER-II/KOL	Relayintegration/NTAMC adaption works.	TEESTA
12	400kv KTPP-ARAMBAG	13/06/2016	08:00	13/06/2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
13	Sgtpp:400kv CB(Bay-421) iro Gokarna#2 & (Bay-420) Tie of Parulia#1	13/06/2016	08:00	13/06/2016	11:00	ODB	WBSETCL	MAINTENANCE WORK	
14	315MVA ICT#1 - Baripada	14/06/2016	07:00	14/06/2016	18:00	ODB	ER-II/Odisha	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	OPTCL
15	400 KV BUS-I with Bay no-8 at Farakka.	14/06/2016	09:00	14/06/2016	18:00	ODB	ER-II/KOL	1) Alignment of Isolator & E/S for Bay No-9 and to erect CT support structure in Bay no-8 (as per new scheme). S/down is required to avoid induction as bay no-9 is vertically below to strung bus of Bay-8	
16	400 KV N.Siliguri-N. Purnea Ckt- I	14/06/2016	10:00	15/06/2016	15:00	ODB	ER-II/KOL	Replacement of broken insulators and jumper/hardware fittings tightening works in line	NLDC
17	HVDC SYSTEM AT SSRM	15/06/2016	09:30	17/06/2016	18:30	ODB	ER-I	FOR SCADA UPGRADATION WORK	NLDC
18	400KV D/C BONGAIGOAN - NEW SILIGURI CKT#I &II	15/06/2016	08:00	18/06/2016	17:00	ODB	ER-II/KOL	Power Line Crossing Stringing between Loc No. 15 & 16 of LILO of 400KV Bongaigoan - New Siliguri CKT # 3 & 4	NLDC
19	220 KV Farakka - Lalmatia TL and 315 MVA ICT at Farakka.	15/06/2016	09:00	16/06/2016	18:00	ODB	ER-II/KOL	1) Bay no- 12 is to be connected after completion of erection of upgraded equipments (3150 A rating) at Bay no-12. 2) Replacement of strung BUS with HTLS conductor for bay no-12 . <u>Special remarks : Bay no-12 is in permanent shutdown for upgradation of equipments (3150 A rating) since 06.05.2016.</u>	JHARKHAND
20	400KV MAIN BUS-II - Baripada	16/06/2016	07:00	16/06/2016	18:00	ODB	ER-II/Odisha	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	

21	400KV RANGPO- TEESTA-V, CKT-2	16/06/2016	09:30	16/06/2016	18:00	ODB	ER-II/KOL	Relayintegration/NTAMC adaption works.	TEESTA
22	132 KV Main Bus at Birpara	17/06/2016	06:00	17/06/2016	07:30	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL
23	400 KV N.Siliguri-N. Purnea Ckt- II	17/06/2016	10:00	18/06/2016	15:00	ODB	ER-II/KOL	Replacement of broken insulators and jumper/hardware fittings tightening works in line	NLDC
24	400 kV Bus-II - Jeypore	18/06/2016	09:30	18/06/2016	16:30	ODB	ER-II/Odisha	For replacing R-Ph CVT of Bus-II at Jeypore due to secondary voltage drift violation	
25	132KV SLG-MELLI LINE	18/06/2016	06:00	18/06/2016	17:00	ODB	ER-II/KOL	FOR CONSTRUCTION WORK OF GIS.	SIKKIM
26	315 MVA ICT#2 - Baripada	19/06/2016	07:00	19/06/2016	18:00	ODB	ER-II/Odisha	HV TEST OF MAIN BUS-I OF GIS	OPTCL
27	400kv BkTPP-Jeerat	19/06/2016	08:00	19/06/2016	12:00	ODB	WBSETCL	MAINTENANCE WORK	
28	316 MVA ICT#2 - Baripada	20/06/2016	07:00	20/06/2016	18:00	ODB	ER-II/Odisha	HV TEST OF MAIN BUS-I OF GIS	OPTCL
29	3*80MVAR L/R OF 765KV NRNC-DHARAMJAIGARH-1 AT NRNC	20/06/2016	10:00	20/06/2016	14:00	ODB	ER-I	FOR TESTING OF NGR BY PASS SCHEME	NLDC
30	400 KV KAHALGAON - MAITHON - I AND II	20/06/2016	08:00	28/06/2016	18:00	OCB	ER-I	FOR POWER LINE CROSSING WORK OF RSHIFTING OF 400 KV KAHALGAON - BANKA - LINE UNDER SPLIT BUS CONSTRUCTION AT NTPC/KAHALGAON AND SHIFTING/REALLINGEMENT WORK OF 400 KV KAHALGAON - MAITHON LINE BETWEEN LOC NO 203-206.	NLDC
31	132 KV RANGPO-CHUZACHEN	20/06/2016	09:30	20/06/2016	18:00	ODB	ER-II/KOL	Relayintegration/NTAMC adaption works.	
32	220KV SLG-Kishanganj Ckt-II	20/06/2016	08:00	20/06/2016	17:00	ODB	ER-II/KOL	For line maintenance.	
33	132 KV Main Bus at Birpara	20/06/2016	06:00	20/06/2016	07:30	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL
34	220 KV Malda-Dalkhola-II Fdr.	20/06/2016	08:00	20/06/2016	17:00	ODB	ER-II/KOL	BAY AMP.	
35	400kv BkTPP-Arambag	20/06/2016	08:00	20/06/2016	12:00	ODB	WBSETCL	MAINTENANCE WORK	
36	400KV MAIN BUS-II - Baripada	21/06/2016	07:00	21/06/2016	18:00	ODB	ER-II/Odisha	HV TEST OF MAIN BUS-II OF GIS	
37	400 kV Meramundali - Angul line at OPTCL Meramundali S/s. - Rengali	21/06/2016	09:00	21/06/2016	17:00	ODB	ER-II/Odisha	Replacement of damaged bushing connector of 80MVAR Line Reactor .	OPTCL
38	160 MVA ICT-II of Siliguri	21/06/2016	06:00	21/06/2016	17:00	ODB	ER-II/KOL	FOR CONSTRUCTION WORK OF GIS.	WBSETCL
39	220KV BUS-I - Baripada	22/06/2016	07:00	22/06/2016	17:00	ODB	ER-II/Odisha	CONNECTION FROM EXISTING BUS TO NEW BUS	OPTCL
40	132KV SLG-WBSETCL-1	22/06/2016	06:00	22/06/2016	17:00	ODB	ER-II/KOL	FOR CONSTRUCTION WORK OF GIS.	WBSETCL
41	220KV BUS-II - Baripada	23/06/2016	07:00	23/06/2016	17:00	ODB	ER-II/Odisha	CONNECTION FROM EXISTING BUS TO NEW BUS	OPTCL
42	400 kV Jeypore-Bolangir S/C Line - Jeypore	23/06/2016	09:30	23/06/2016	16:30	ODB	ER-II/Odisha	For replacing Y-Ph CVT of Bolangir Line at Jeypore due to secondary voltage drift violation	NLDC
43	132 KVRANGPO-GANGTOK-1	23/06/2016	09:30	23/06/2016	18:00	ODB	ER-II/KOL	Relayintegration/NTAMC adaption works.	SIKKIM
44	132KV SLG-WBSETCL-2	23/06/2016	06:00	23/06/2016	17:00	ODB	ER-II/KOL	FOR CONSTRUCTION WORK OF GIS.	WBSETCL
45	132 KV Main Bus at Birpara	23/06/2016	06:00	23/06/2016	07:30	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL
46	400kV Keonjhar Main bay - Rengali	24/06/2016	09:00	24/06/2016	17:00	ODB	ER-II/Odisha	AMP works.	
47	400 KV BUS-I at Farakka.	24/06/2016	10:00	24/06/2016	15:00	ODB	ER-II/KOL	1) Bay no- 8 to be disconnected from BUS-I (By jumper opening) so that AL pipe bus could be connect for Bay no-9 (New reactor bay). To avoid induction as bay no-9 is vertically below to strung bus of Bay-8	
48	400 KV Bay no-8 at Farakka.	24/06/2016	10:00	29/06/2016	18:00	OCB	ER-II/KOL	1) For erection of AL pipe bus for Bay no-9 (new reactor bay) 2) Erection of 3 nos. CTs in Bay no-8 (as per new scheme) 3) dismantelling of AL pipe bus between isolator and CB of Bay no-8. 4) Re-erection of AL pipe bus between Isolator and CB through new CTs in Bay no-8.	
49	ICT-II(315 MVA) - Jeypore	25/06/2016	10:30	25/06/2016	11:30	ODB	ER-II/Odisha	For reconnecting tertaiy Conductors on ICT for providing Insulation Sleeves on Tertiary conductors/Bushing tops	OPTCL
50	220kV NSLG-BRP Ckt-I & II	25/06/2016	08:00	03/07/2016	17:00	OCB	ER-II/KOL	Tower shifting due to doubling of rail track	WBSETCL
51	50 MVA ICT-IV at Malda.	25/06/2016	08:00	25/06/2016	17:00	ODB	ER-II/KOL	BAY AMP.	WBSETCL
52	765 KV NEW RANCHI - DHARAMJAIGARH -2	26/06/2016	07:00	02/07/2016	18:00	ODB	ER-I	FOR INSTALLATION OF BIRD GUARD ON 132 TOWERS	NLDC
53	132kv SLG-Kurseong	26/06/2016	08:00	26/06/2016	17:00	ODB	ER-II/KOL	For line maintenance.	WBSETCL
54	132 KV Main Bus at Malda	26/06/2016	06:00	26/06/2016	07:30	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL

55	765kV Bus-1 -Angul	27/06/2016	08:00	28/06/2016	18:00	ODB	ER-II/Odisha	For extension of BUS to Angul Extension Switchyard	NLDC
56	400kV Talcher-I Line - Rengali	27/06/2016	09:00	27/06/2016	17:00	ODB	ER-II/Odisha	Installation of line Earth switch on 400kV Talcher-I line at Rengali s/s.	
57	400kV Rourkela-Ranchi#2 Main Bay (Bay No.-421) - Rourkela	27/06/2016	09:00	27/06/2016	18:00	ODB	ER-II/Odisha	AMP work	
58	220 KV RNC - CHANDIL -1	27/06/2016	08:00	27/06/2016	18:00	ODB	ER-I	FOR ATTENDING HOT SPOT	JHARKHAND
59	220 KV PATNA - KHAGAU	27/06/2016	10:00	27/06/2016	17:00	ODB	ER-I	AMP WORK OF LINE BAY	BIHAR
60	80 MVAR BUS REACTOR AT LAKHISARAI	27/06/2016	09:30	27/06/2016	17:30	ODB	ER-I	FOR AMP WORK	
61	400 / 220 KV 500 MVA ICT -1 AT GAYA	27/06/2016	10:00	27/06/2016	16:00	ODB	ER-I	FOR BAY CONSTRUCTION OF 400 Kv GAYA - CHNADAWA LINE	BIHAR
62	132kV Kurseong - Rangit	27/06/2016	08:00	27/06/2016	17:00	ODB	ER-II/KOL	For line maintenance.	WBSETCL
63	132kV Siliguri - Melli	27/06/2016	08:00	27/06/2016	17:00	ODB	ER-II/KOL	For line maintenance.	SIKKIM
64	160 MVA ICT-I at Siliguri	27/06/2016	06:00	27/06/2016	17:00	ODB	ER-II/KOL	FOR CONSTRUCTION WORK OF GIS.	WBSETCL
65	400KV Keonjhar Line - Baripada	28/06/2016	07:00	27/07/2016	18:00	OCB	ER-II/Odisha	MAIN 2 RELAY RETROFICATION WORK	
66	400kV Talcher-II Line - Rengali	28/06/2016	09:00	28/06/2016	17:00	ODB	ER-II/Odisha	Installation of line Earth switch on 400kV Talcher-II line at Rengali s/s.	
67	765KV ICT#1 - BUS REACTOR#1 TIE BAY (702) - Sundergarh	28/06/2016	07:00	28/06/2016	19:00	OCB	ER-II/Odisha	FOR REPLACEMENT OF GRADING CAPACITOR OF 702CB HAVING TAN DELTA VIOLATION.	NLDC
68	400kv Sundargarh- Ind Bharat -I - Sundargarh TLM	28/06/2016	08:00	28/06/2016	17:30	ODB	ER-II/Odisha	porceline insulator replaced by Long rod Polymer at 03 nos crossing span of Powerline, Rly line etc	
69	220 KV CHAIBASA-CHAIBASA-1	28/06/2016	09:00	28/06/2016	17:00	ODB	ER-I	FOR EXTENSION OF BUS FOR 400 KV CBS - JSR - II AND STABILITY TEST	JHARKHAND
70	220 KV PATNA - SIPARA -1	28/06/2016	10:00	28/06/2016	17:00	ODB	ER-I	AMP WORK OF LINE BAY	BIHAR
71	TIE BAY OF 400KV BSF-1 & 200 MVA ICT-1 AT LAKHISARAI	28/06/2016	10:00	28/06/2016	14:00	ODB	ER-I	FOR AMP WORK	
72	400 KV MAITHAN - GAYA -1 AND 400 KV KODERMA - GAYA -2	28/06/2016	08:00	29/06/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
73	400 KV JSR -RKL-2	28/06/2016	09:30	28/06/2016	14:30	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF ICT - III AT JAMSHEDPUR	
74	AC BY PASS BAY AT SSRM	28/06/2016	10:00	28/06/2016	13:00	ODB	ER-I	STRENGTHNING OF AC BY PASS JUMPER(DURING SAID S/D AC BY PASS & HVDC BOTH WILL NOT BE IN SERVICE)	NLDC
75	400KV TIE BAY OF 500MVA ICT-1 & FUTURE AT SSRM	28/06/2016	09:00	01/07/2016	18:00	OCB	ER-I	FOR PIR REMOVAL OF SAID TIE CKT BREAKER	
76	315 MVA ICT#2 at Binaguri	28/06/2016	08:00	28/06/2016	17:00	ODB	ER-II/KOL	Repeat tan delta of 33kV B Phase Bushing	
77	160 MVA ICT-II of Malda.	28/06/2016	08:00	29/06/2016	15:00	OCB	ER-II/KOL	For rectification of NIFS system at Malda S/S. (ERSS-IV PROJECT)	WBSETCL
78	765kV Bus-2- Angul	29/06/2016	08:00	30/06/2016	18:00	ODB	ER-II/Odisha	For extension of BUS to Angul Extension Switchyard	NLDC
79	50MVAR B/R Main Bay (Bay No.- 422) - Rourkela	29/06/2016	09:00	29/06/2016	18:00	ODB	ER-II/Odisha	AMP work	
80	400Kv Ind Bharat -Raighar-I - Sundargarh TLM	29/06/2016	08:00	30/06/2016	17:30	ODB	ER-II/Odisha	porceline insulator replaced by Long rod Polymer at 06 nos crossing span of Powerline, Rly line etc	NLDC
81	400 KV KHLG - BARH -1	29/06/2016	08:00	29/06/2016	18:00	ODB	ER-I	INSUALTOR REPLACEMENT WORK (DAMAGED BY MICREANTS)	
82	MAIN BAY OF 400KV LAKHISARAI - KAHALGAON -2 AT LAKHISARAI	29/06/2016	10:00	29/06/2016	14:00	ODB	ER-I	FOR AMP WORK	
83	400 / 220 KV 315 MVA ICT -2 AT GAYA	29/06/2016	10:00	29/06/2016	16:00	ODB	ER-I	FOR BAY CONSTRUCTION OF 400 Kv GAYA - CHNADAWA LINE	BIHAR
84	132 KV RANGPO-GANGTOK-1	29/06/2016	09:30	29/06/2016	18:00	ODB	ER-II/KOL	Relayintegration/NTAMC adaption works.	SIKKIM
85	400KV D/C BONGAIGOAN - NEW SILIGURI CKT#I &II	29/06/2016	08:00	02/07/2016	17:00	ODB	ER-II/KOL	Power Line Crossing Stringing between Loc No. 11 & 12 of LILO of 400KV Bongaigoan - New Siliguri CKT # 3 & 4	NLDC
86	BNG-III L/R at Binaguri S/S	29/06/2016	08:00	29/06/2016	17:00	ODB	ER-II/KOL	Repeat tan delta of 400kV B Phase Bushing	

87	ICT-I (3x 105 MVA) - Jeypore	30/06/2016	10:30	30/06/2016	16:30	ODB	ER-II/Odisha	For AMP works	OPTCL
88	400kV Indravati FSC bay - Rengali	30/06/2016	09:00	30/06/2016	17:00	ODB	ER-II/Odisha	AMP works.	
89	315 MVA ICT#1 - 50MVAR B/R Tie Bay (Bay No.-423) - Rourkela	30/06/2016	09:00	30/06/2016	18:00	ODB	ER-II/Odisha	AMP work	OPTCL
90	220 KV CHAIBASA-CHAIBASA-2	30/06/2016	09:00	30/06/2016	17:00	ODB	ER-I	FOR EXTENSION OF BUS FOR 400 KV CBS - JSR - II AND STABILITY TEST	JHARKHAND
91	132 KV LAKHISARAI - LAKHISARAI -1 OF BSPTCL	30/06/2016	10:00	30/06/2016	14:00	ODB	ER-I	FOR AMP WORK	BIHAR
92	400 KV BANKA - BIHARSHARIF -2	30/06/2016	11:00	30/06/2016	14:00	ODB	ER-I	FOR AUTO RECLOSE TESTING OF TIE BREAKER IN PRESENCE OF ALSTOM SAS ENGINEER.	
93	400 KV MAITHAN - GAYA -2 AND 400 KV KODERMA - GAYA - 1	30/06/2016	08:00	01/07/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	May be planned after Maithon - Khg - D/C
94	BNG-IV L/R at Binaguri S/S	30/06/2016	08:00	30/06/2016	17:00	ODB	ER-II/KOL	Repeat capacitance of 400kV Y Phase Bushing	
95	132 KV Main Bus at Malda	30/06/2016	06:00	30/06/2016	07:30	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL
96	160 MVA ICT-I of Malda S/S.	30/06/2016	08:00	30/06/2016	17:00	ODB	ER-II/KOL	For rectification of NIFS system at Malda S/S. (ERSS-IV PROJECT)	WBSETCL
97	400KV Baripada- DUBURI Line - Baripada	01/07/2016	07:00	02/07/2016	18:00	OCB	ER-II/Odisha	Erection of Tower at new pile foundation at loc. No.8	
98	400KV, 125MVAR BUS REACTOR-1 - Sundergarh	01/07/2016	07:00	02/07/2016	19:00	OCB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	
99	315 MVA ICT -1 AT BSF	01/07/2016	10:00	01/07/2016	18:00	ODB	ER-I	FOR AMP WORK	BIHAR
100	A/R OF 400KV KAHALGAON - BARH - 2	01/07/2016	07:00	31/07/2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	EITHER 400KV KAHALGAON - BARH - 2/ BSF-BANKA - 2/BSF-MZF - I ONE OUTAGE SHALL BE ALLOWED.
101	A/R OF 400KV BSF-BANKA-2	01/07/2016	07:00	31/07/2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	EITHER 400KV KAHALGAON - BARH - 2/ BSF-BANKA - 2/BSF-MZF - I ONE OUTAGE SHALL BE ALLOWED.
102	A/R OF 400KV BSF-MUZ-1	01/07/2016	07:00	31/07/2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	EITHER 400KV KAHALGAON - BARH - 2/ BSF-BANKA - 2/BSF-MZF - I ONE OUTAGE SHALL BE ALLOWED.
103	400kV Tala-I L/R at Binaguri S/S	01/07/2016	08:00	01/07/2016	17:00	ODB	ER-II/KOL	Repeat tan delta of 400kV R Phase Bushing & Neutral Bushing Replacement	
104	400kV NSLG-Bangaigaon Ckt-1	01/07/2016	08:00	02/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	NLDC
105	132 KV LAKHISARAI - LAKHISARAI -2 OF BSPTCL	02/07/2016	10:00	02/07/2016	14:00	ODB	ER-I	FOR AMP WORK	BIHAR
106	765 KV GAYA - BALIA	02/07/2016	08:00	02/07/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
107	400 KV BIHARSHARIF - BALIA -2	02/07/2016	10:00	02/07/2016	14:00	ODB	ER-I	FOR AMP WORK OF LINE BAY. AT BSF	NLDC
108	WBSETCL Bus Section-1 at Binaguri S/S	02/07/2016	08:00	02/07/2016	17:00	ODB	ER-II/KOL	AMP of NSLG	
109	220 KV Dalkhola-Dalkhola Ckt - I	02/07/2016	07:00	02/07/2016	15:00	ODB	ER-II/KOL	AMP	WBSETCL
110	AC BY PASS BAY AT SSRM	03/07/2016	10:00	03/07/2016	13:00	ODB	ER-I	STRENGTHNING OF AC BY PASS JUMPER(DURING SAID S/D AC BY PASS & HVDC BOTH WILL NOT BE IN SERVICE)	NLDC
111	400 KV Baripada- Mendhasal & Baripada- Duburi Line - Baripada	03/07/2016	07:00	08/07/2016	18:00	OCB	ER-II/Odisha	De-stringing & dismantling of existing tower at loc. No. 8 and erection & stringing of new tower at pile foundation loc. No.8	OPTCL
112	WBSETCL Bus Section-2 at Binaguri S/S	03/07/2016	08:00	03/07/2016	17:00	ODB	ER-II/KOL	AMP of NSLG	
113	400KV NSLG-Bangaigaon Ckt-2	03/07/2016	08:00	04/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	NLDC
114	132 KV Main Bus at Malda	03/07/2016	06:00	03/07/2016	07:30	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL
115	63 MVAR Sundargarh #1 Line Reactor - Rourkela	04/07/2016	09:00	04/07/2016	18:00	ODB	ER-II/Odisha	AMP work	
116	400KV, 125MVAR BUS REACTOR-2 - Sundergarh	04/07/2016	07:00	05/07/2016	19:00	OCB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	
117	765kv Sundargarh-Dharamjoyghar Line -I - Sundargarh TLM	04/07/2016	08:00	04/07/2016	18:00	ODB	ER-II/Odisha	Repair sleeve to be provided on conductor in the span of 86-87 and insulator replacement works on loc no 100 and loc 119	NLDC
118	400 KV BSF- VARANASI -1 & 2	04/07/2016	08:00	14/07/2016	18:00	OCB	ER-I	CONSTRUCTION OF SWAPPING OF BAYS / LINES AT BSF	NLDC
119	132 KV SHEKHPURA - BSF (BSPTCL)	04/07/2016	08:00	05/07/2016	18:00	OCB	ER-I	CONSTRUCTION OF SWAPPING OF BAYS / LINES AT BSF	BIHAR

120	400 KV FARAKKA - KAHALGAON - I AND II	04/07/2016	08:00	07/07/2016	18:00	OCB	ER-I	FOR POWER LINE CROSSING WORK OF RSHIFTING OF 400 KV KAHALGAON - BANKA - LINE UNDER SPLIT BUS CONSTRUCTION AT NTPC/KAHALGAON	NLDC
121	400kV Tala-II L/R at Binaguri S/S	04/07/2016	08:00	04/07/2016	17:00	ODB	ER-II/KOL	CSD Commissioning	
122	Durgapur:315MVA ICT#1	04/07/2016	10:00	04/07/2016	16:00	ODB	WBSETCL	MAINTENANCE WORK	
123	(220KV line-3) 207 Bay - Balangir	05/07/2016	09:00	05/07/2016	18:00	ODB	ER-II/Odisha	AMP Work	
124	Indravati-Jeypore Line - Indravati	05/07/2016	08:00	05/07/2016	14:00	OCB	ER-II/Odisha	Replacement of Y-Ph CVT due to drift in secondary voltage	NLDC
125	400 KV BUS -1 AT JSR	05/07/2016	09:30	05/07/2016	17:30	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF ICT - III AT JAMSHEDPUR	
126	100 MVA ICT-1 AT ARA	05/07/2016	09:00	06/07/2016	17:00	OCB	ER-I	FOR OLTC OVERHAULING	BIHAR
127	400kV Tala-IV L/R at Binaguri S/S	05/07/2016	08:00	05/07/2016	17:00	ODB	ER-II/KOL	CSD Commissioning	
128	400kV NSLG-Tala Ckt-1	05/07/2016	08:00	06/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	NLDC
129	400 KV Main Bus-II & 315 MVA ICT-V at Malda S/S.	05/07/2016	08:00	05/07/2016	17:00	ODB	ER-II/KOL	For isolator rectification work.	
130	Durgapur:3x105MVA ICT#2	05/07/2016	10:00	05/07/2016	16:00	ODB	WBSETCL	MAINTENANCE WORK	
131	765kV Angul Sundergarh Line-1 - Angul TL AM	06/07/2016	07:00	07/07/2016	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers to prevent swing during high speed wind	NLDC
132	(220KV line -4) 209 Bay - Balangir	06/07/2016	09:00	06/07/2016	18:00	ODB	ER-II/Odisha	AMP Work	
133	63 MVAR Raigarh #2 Line Reactor - Rourkela	06/07/2016	09:00	06/07/2016	18:00	ODB	ER-II/Odisha	AMP work	
134	765kv Sundargarh-Dharamjoyghar Line -II - Sundargarh TLM	06/07/2016	08:00	06/07/2016	18:00	ODB	ER-II/Odisha	Insulator replacement works on location no 110	NLDC
135	315 MVA ICT -2 AT NEW PURNEA	06/07/2016	10:00	06/07/2016	18:00	ODB	ER-I	C & TAN DELTA OF BUSHINGS AND JUMPERS REPLACEMENT	BIHAR
136	132 KV LAKHISARAI - JAMUI -1 OF BSPTCL	06/07/2016	10:00	06/07/2016	14:00	ODB	ER-I	FOR AMP WORK	BIHAR
137	400 KV JSR - BARIPADA	06/07/2016	08:00	06/07/2016	17:00	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF ICT - III AT JAMSHEDPUR	
138	400 KV Kh -Lakhisarai # Line 1	06/07/2016	09:30	06/07/2016	17:30	ODB	NTPC	PM works & Relay testing.	
139	125 Bus Reactor-I at Binaguri S/S	06/07/2016	08:00	06/07/2016	17:00	ODB	ER-II/KOL	CSD Commissioning	
140	400 KV BUS-I with Bay no-8 at Farakka.	06/07/2016	10:00	06/07/2016	18:00	ODB	ER-II/KOL	To open jumper of Bay no- 8 from BUS-1 , and to jumper bay no-9 to BUS-I, so that Bay no-9 could be taken into service.	
141	220kv DGP(WB)-Waria(DVC)#1	06/07/2016	07:00	06/07/2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
142	220 KV RNC - HATIA -1	07/07/2016	08:00	07/07/2016	17:00	ODB	ER-I	FOR ATTENDING HOT SPOT	JHARKHAND
143	400 KV BUS -2 AT JSR	07/07/2016	09:30	07/07/2016	17:30	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF ICT - III AT JAMSHEDPUR	
144	132 KV SHEKHPURA - BSF (BSPTCL)	07/07/2016	08:00	08/07/2016	18:00	OCB	ER-I	CONSTRUCTION OF SWAPPING OF BAYS / LINES AT BSF	BIHAR
145	100 MVA ICT-2 AT ARA	07/07/2016	09:00	08/07/2016	17:00	OCB	ER-I	FOR OLTC OVERHAULING	BIHAR
146	125 Bus Reactor-II at Binaguri S/S	07/07/2016	08:00	07/07/2016	17:00	ODB	ER-II/KOL	CSD Commissioning	
147	400kV NSLG-Tala Ckt-2	07/07/2016	08:00	08/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	NLDC
148	132 KV Main Bus at Malda	07/07/2016	06:00	07/07/2016	07:30	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL
149	220kv DGP(WB)-Waria(DVC)#2	07/07/2016	07:00	07/07/2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
150	765kV Angul Sundergarh Line-2 - Angul TL AM	08/07/2016	07:00	09/07/2016	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers to prevent swing during high speed wind	NLDC
151	400 KV Rourkela-Ranchi#1 Main Bay (Bay No.-428) - Rourkela	08/07/2016	09:00	08/07/2016	18:00	ODB	ER-II/Odisha	AMP work	
152	400KV SUNGARGARH-ROURKELA LINE-1 - Sundergarh	08/07/2016	07:00	09/07/2016	19:00	ODB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	
153	220 KV RNC - HATIA -2	08/07/2016	08:00	08/07/2016	17:00	ODB	ER-I	FOR ATTENDING HOT SPOT	JHARKHAND
154	220kV NSLG-SLG Ckt-I at Binaguri S/S	08/07/2016	08:00	08/07/2016	17:00	ODB	ER-II/KOL	Relay retrofitting	
155	400 KV Malda- Purnea ckt-I	08/07/2016	10:00	09/07/2016	15:00	ODB	ER-II/KOL	Replacement of broken insulators and jumper/hardware fittings tightening works in line	
156	(220KV TBC) 210 Bay - Balangir	09/07/2016	09:00	09/07/2016	18:00	ODB	ER-II/Odisha	AMP Work	
157	220kV NSLG-SLG Ckt-II at Binaguri S/S	09/07/2016	08:00	09/07/2016	17:00	ODB	ER-II/KOL	Relay retrofitting	
158	400kV NSLG-Tala Ckt-3	09/07/2016	08:00	10/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	NLDC

159	220kV NSLG-BRP Ckt-I	10/07/2016	08:00	10/07/2016	17:00	ODB	ER-II/KOL	Relay retrofitting	
160	132 KV MALDA-MALDA-I FDR.	10/07/2016	06:00	13/07/2016	15:00	ODB	ER-II/KOL	For replacement of LINE Isolator.	WBSETCL
161	(220KV Bus Coupler) 204 Bay - Balangir	11/07/2016	09:00	11/07/2016	18:00	ODB	ER-II/Odisha	AMP Work	
162	400 KV Rourkela-Sundargarh #2 Main Bay (Bay No-430) - Rourkela	11/07/2016	09:00	11/07/2016	18:00	ODB	ER-II/Odisha	AMP work	
163	400KV SUNGARGARH-IND BHARAT LINE - Sundergarh	11/07/2016	07:00	12/07/2016	19:00	ODB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	
164	400 KV BUS -2 AT NEW PURNEA	11/07/2016	10:00	11/07/2016	18:00	ODB	ER-I	ISOLATOR ALLIGNMENT WORK i.r.o. 500 MVA ICT -1	
165	132 KV LAKHISARAI - JAMUI -2 OF BSPTCL	11/07/2016	10:00	11/07/2016	14:00	ODB	ER-I	FOR AMP WORK	BIHAR
166	L/R OF 765 KV GAYA - VARANASI -2 AT GAYA	11/07/2016	09:00	11/07/2016	17:00	ODB	ER-I	FOR CSD COMMISSIONING WORK.	NLDC
167	3*80MVAR L/R OF 765KV NRNC-DHARAMJAIGARH-2 AT NRNC	11/07/2016	10:00	11/07/2016	13:00	ODB	ER-I	FOR ON LOAD TESTING OF CSD RELAY AT NRNC	NLDC
168	132 KV SHEKHPURA - BSF (BSPTCL)	11/07/2016	08:00	13/07/2016	18:00	OCB	ER-I	CONSTRUCTION OF SWAPPING OF BAYS / LINES AT BSF	BIHAR
169	400 KV KAHALGAON - BARH - I AND II	11/07/2016	08:00	13/07/2016	18:00	OCB	ER-I	FOR POWER LINE CROSSING WORK OF RSHIFTING OF 400 KV KAHALGAON - BANKA - LINE UNDER SPLIT BUS CONSTRUCTION AT NTPC/KAHALGAON	NLDC
170	220kV NSLG-BRP Ckt-II	11/07/2016	08:00	11/07/2016	17:00	ODB	ER-II/KOL	Relay retrofitting	
171	400 KV Farakka- Kahalgaon 3 & 4	11/07/2016	08:00	16/07/2016	18:00	OCB	ER-II/KOL	Erection of tower at Loc no. 5/0 & 5A/0 of LILO of 400 KV Rajarhat- Purnea D/c at Farakka and stringing between them (5/0 to 5A/0). Special Remarks : Span between 5/0 to 5A/0 is 80 mtrs. So, Distance between tower 5/0 & 5A/0 to 400 KV Farakka - Kahalgaon line is even less. Tower height of 5/0 and 5A/0 is approx 80 mtrs (DD+25 Mtrs with 4 m RC). So, during erection also, shutdown is required for passing stay / guy wires /ropes.	NLDC
172	220 KV Farakka- Lalmatia TL	11/07/2016	08:00	14/07/2016	18:00	OCB	ER-II/KOL	Erection of tower at Loc. No- 7/0 (DD+25 mtr with 4 m RC) and stringing between loc. No. 6/0 to 7/0 of LILO of 400 KV Rajarhat- Purnea D/c at Farakka. Special Remarks : Distance between tower 7/0 to 220 KV Farakka - Lalmatia line is approx 70 mtrs. Tower height of 7/0 is approx 80 mtrs (DD+25 Mtrs with 4 m RC). So, during erection, shutdown is required for passing stay / guy wires /ropes.	JHARKHAND
173	400kv ARMBG-BkTPP	11/07/2016	06:00	12/07/2016	16:00	ODB	WBSETCL	MAINTENANCE WORK	
174	400KV Angul Bolangir Line - Angul TL AM	12/07/2016	07:00	13/07/2016	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers to prevent swing during high speed wind	
175	PG(Ind)-UIHEP Line - Indravati	12/07/2016	09:00	12/07/2016	14:00	OCB	ER-II/Odisha	Rectification of Gas leakage in CB	NLDC
176	765 KV GAYA - VARANASI -1 ALONG WITH LR	12/07/2016	09:00	13/07/2016	17:00	ODB	ER-I	FOR BUSHING REPLACEMENT OF LINE REACTOR AT GAYA	NLDC
177	765KV SSRM-FATEHPUR	12/07/2016	09:30	12/07/2016	18:30	ODB	ER-I	AMP WORK OF RELAY & L/R CKT BREAKER	NLDC
178	400kV Tala Ckt-I	12/07/2016	08:00	12/07/2016	17:00	ODB	ER-II/KOL	Relay retrofitting	NLDC
179	400kV NSLG-Rangpo Ckt-1	12/07/2016	08:00	15/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	
180	400kV NSLG-Tala Ckt-4	12/07/2016	08:00	15/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	NLDC
181	220KV Gokarna- Sagardighi Ckt. I & 2	12/07/2016	08:00	12/07/2016	18:00	ODB	ER-II/KOL	Stringing between loc. No. 3/0 to 4/0 of LILO of 400 KV Rajarhat- Purnea D/c at Gokarna	WBSETCL
182	400KV SUNGARGARH-ROURKELA LINE-2 - Sundergarh	13/07/2016	07:00	14/07/2016	19:00	ODB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	
183	400 KV Kh -Lakhisarai # Line 2	13/07/2016	09:30	13/07/2016	17:30	ODB	NTPC	PM works & Relay testing.	
184	400kV NSLG-Kishanganj-2 Line	13/07/2016	08:00	13/07/2016	17:00	ODB	ER-II/KOL	Hot spot rectification	
185	400kV Bus-I at Binaguri S/S	13/07/2016	08:00	13/07/2016	17:00	ODB	ER-II/KOL	To facilitate hot spot rectification in Purnea-3 & 4 Line	
186	400kv ARMBG-KTPP	13/07/2016	06:00	13/07/2016	16:00	ODB	WBSETCL	MAINTENANCE WORK	
187	400kV Angul Meramundali Line-1 - Angul TL AM	14/07/2016	07:00	14/07/2016	18:00	ODB	ER-II/Odisha	Improvement & strengthening of line jumpers to prevent swing during high speed wind	OPTCL

188	400 KV Rourkela-SEL #2 Main Bay (Bay No-427) - Rourkela	14/07/2016	09:00	14/07/2016	18:00	ODB	ER-II/Odisha	AMP work	
189	765 KV NEW RANCHI - DHARAMJAIGARH -1	14/07/2016	09:00	14/07/2016	16:00	ODB	ER-I	FOR INSULATOR REPLACEMENT WORK (DAMAGED BY MISCREANTS AT LOC 227 & 230)	NLDC
190	132 KV MAIN BUS AT LAKHISARAI	14/07/2016	10:00	14/07/2016	14:00	ODB	ER-I	FOR AMP WORK. (NO POWER FLOW TO BSPTCL DURING THE SHUT DOWN PERIOD)	BIHAR
191	400KV EAST BUS-2 AT SSRM	14/07/2016	09:30	14/07/2016	18:30	ODB	ER-I	AMP WORK	
192	400 KV BSF- NPRN -1 & 2	14/07/2016	08:00	14/07/2016	18:00	ODB	ER-I	CONSTRUCTION OF SWAPPING OF BAYS / LINES AT BSF	NLDC
193	400kV NSLG-Kishanganj-1 Line	14/07/2016	08:00	14/07/2016	17:00	ODB	ER-II/KOL	Hot spot rectification	
194	132 KV Main Bus at Birpara	14/07/2016	06:00	14/07/2016	07:30	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL
195	132 KV MALDA-MALDA-II FDR.	14/07/2016	06:00	17/07/2016	15:00	ODB	ER-II/KOL	For replacement of LINE Isolator.	WBSETCL
196	132 KV D/C (Gokarna -Raghunathganj Ckt. & Gokarna -Lalgola 1 Ckt.) & 132 D/C (Gokarna-Lalgola Ckt.2 & Gokarna -Sonar Bangla section of Gokarna-Sonarbangla-Lalgola Ckt.)	14/07/2016	08:00	14/07/2016	18:00	ODB	ER-II/KOL	Stringing between loc. No. 5/0 to 6/0 of LILO of 400 KV Rajarhat-Purnea D/c at Gokarna. Special Remarks : All 04 CKT.s are in single span.	WBSETCL
197	400 KV Bus Reactor Main Bay (408) - Keonjhar	15/07/2016	09:00	15/07/2016	18:00	ODB	ER-II/Odisha	AMP/CSD relay rectification	
198	400 KV Bus Reactor Tie Bay (407-08) - Keonjhar	15/07/2016	09:00	15/07/2016	18:00	ODB	ER-II/Odisha	AMP/CSD relay rectification	
199	400KV Keonjhar-Baripada Line - Keonjhar	15/07/2016	09:00	16/07/2016	18:00	OCB	ER-II/Odisha	For OPGW Stringing Work	
200	400KV Keonjhar-Rengali Line - Keonjhar	15/07/2016	09:00	16/07/2016	18:00	OCB	ER-II/Odisha	For OPGW Stringing Work	
201	400KV SUNGARGARH-RAIGARH LINE-2 - Sundergarh	15/07/2016	07:00	16/07/2016	19:00	ODB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	NLDC
202	400 KV RNC -RKL -1	15/07/2016	08:00	15/07/2016	17:00	ODB	ER-I	INSULATOR REPLACEMENT WORK AT LOCATION NO 14, 45 228, 229 (DAMAGED BY MICREANTS)	
203	400 KV BUS -1 AT BIHARSHARIFF	15/07/2016	08:00	15/07/2016	12:00	ODB	ER-I	FOR OPENING OF DROPPER FOR S/D OF JACK BUS OF ICT -1 AND LAKHISARAI CKT -2	
204	MAIN BAY OF 400KV BSF- LAKHISARAI -2 AT BSF	15/07/2016	08:00	25/07/2016	18:00	OCB	ER-I	FOR OPENING OF DROPPER FOR S/D OF JACK BUS	
205	400 KV MIAN BAY OF 315 MVA ICT -1 AT BSF	15/07/2016	08:00	25/07/2016	18:00	OCB	ER-I	FOR OPENING OF DROPPER FOR S/D OF JACK BUS	
206	400 KV BUS -2 AT BIHARSHARIF	15/07/2016	14:00	15/07/2016	20:00	ODB	ER-I	TO DISMANTLE THE BUS ALLUMINIUM PIPE. NOW BUS -2 BECOMES IN TWO PART, BUS -2 & BUS -4. BUS -2 WILL BE TAKEN IMMEDIATELY.	
207	315 MVA ICT -1 AT BSF	15/07/2016	14:00	15/07/2016	20:00	ODB	ER-I	OUT DUE TO S/D OF BUS -2	BIHAR
208	400 KV BIHARSHARIF - LAKHISARAI -2	15/07/2016	14:00	15/07/2016	20:00	ODB	ER-I	OUT DUE TO S/D OF BUS -2	
209	400 KV BIHARSHARIF - LAKHISARAI -1	15/07/2016	14:00	15/07/2016	20:00	ODB	ER-I	OUT DUE TO S/D OF BUS -2	
210	400 KV BUS -4 AT BSF (HALF PART OF EARLIER 400 KV BUS -2)	15/07/2016	14:00	24/07/2016	18:00	OCB	ER-I	BUS -4 WILL BE COMMISSIONED WITH BUS SPLIT BAY. THIS BUS -4 WITH NEW BUS - BAR PROTECTION PANEL AND HAVING NEW CVT WITH BUS -4	
211	MAIN BAY OF 315MVA ICT-2 AT BSF	15/07/2016	14:00	24/07/2016	18:00	OCB	ER-I	OUT DUE TO SHUTDOWN OF BUS-4 AT BSF	
212	MAIN BAY OF 400KV BSF-BANKA-2 AT BSF	15/07/2016	14:00	24/07/2016	18:00	OCB	ER-I	OUT DUE TO SHUTDOWN OF BUS-4 AT BSF	
213	TIE BAY OF 400KV BSF-KODERMA-2 & FUTURE AT BSF	15/07/2016	14:00	24/07/2016	18:00	OCB	ER-I	OUT DUE TO SHUTDOWN OF BUS-4 AT BSF	
214	MAIN BAY OF 400KV BSF-KODERMA-1 AT BSF	15/07/2016	14:00	24/07/2016	18:00	OCB	ER-I	OUT DUE TO SHUTDOWN OF BUS-4 AT BSF	
215	MAIN BAY OF 400KV BSF-NPRN-2 AT BSF	15/07/2016	14:00	24/07/2016	18:00	OCB	ER-I	OUT DUE TO SHUTDOWN OF BUS-4 AT BSF	
216	TIE BAY OF 400KV BSF-NPRN-1 AT BSF	15/07/2016	14:00	24/07/2016	18:00	OCB	ER-I	OUT DUE TO SHUTDOWN OF BUS-4 AT BSF	
217	400 KV FARAKKA - KAHALGAON - III AND IV	15/07/2016	08:00	17/07/2016	18:00	OCB	ER-I	FOR POWER LINE CROSSING WORK OF RSHIFTING OF 400 KV KAHALGAON - BANKA - LINE UNDER SPLIT BUS CONSTRUCTION AT NTPC/KAHALGAON	NLDC
218	220kV Bus-I at Binaguri S/S	15/07/2016	08:00	15/07/2016	17:00	ODB	ER-II/KOL	Bus isolator hot spot rectification / CVT replacement	
219	160 MVA ICT-II of Siliguri	15/07/2016	08:00	15/07/2016	17:00	ODB	ER-II/KOL	For replacement of Bus Isolator.	WBSETCL
220	80 MVAR Bus Reactor - Keonjhar	16/07/2016	09:00	16/07/2016	18:00	ODB	ER-II/Odisha	AMP/CSD relay rectification	
221	400 KV 125 MVAR Bus Reactor-SEL #2 Tie Bay (Bay No-426) - Rourkela	16/07/2016	09:00	16/07/2016	18:00	ODB	ER-II/Odisha	AMP work	
222	220kV Bus-II at Binaguri S/S	16/07/2016	08:00	16/07/2016	17:00	ODB	ER-II/KOL	Bus isolator hot spot rectification	
223	400kV NSLG-Rangpo Ckt-2	16/07/2016	08:00	19/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	

224	400KV MAIN BUS-1 - Sundergarh	18/07/2016	07:00	20/07/2016	19:00	OCB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	
225	400KV BUS -1 AT CHAIBASA	18/07/2016	09:00	18/07/2016	17:00	ODB	ER-I	FOR EXTENSION OF BUS FOR 400 KV CBS - JSR - II AND STABILITY TEST	
226	ICT#2 at OHPC Switch-yard - Indravati	19/07/2016	08:00	19/07/2016	14:00	OCB	ER-II/Odisha	Replacement of female contactor of Isolator 89A (BUS-A CB side)	OPTCL
227	132KV DEHRI-KUDRA	19/07/2016	10:00	19/07/2016	18:00	ODB	ER-I	BAY AMP WORK AT BSPTCL DEHRI END	BIHAR
228	Annual Maint work for 400KV ICT#2 BARH	19/07/2016	09:30	22/07/2016	18:00	OCB	NTPC	PM Job of ICT # 2.	
229	Annual Maint work for 400KV ICT#2 Bays BARH	19/07/2016	09:30	22/07/2016	18:00	OCB	NTPC	Testing of ICT # 2 Bays Equipments	
230	220 KV BUS -1 AT NEW PURNEA	20/07/2016	10:00	20/07/2016	17:00	ODB	ER-I	ISOLATOR ALIGNMENT WORK. RESPECTIVE BAY TO TRANSFERED TO TBC.	
231	400 KV Kh - Maithon # Line 1	20/07/2016	09:30	20/07/2016	17:30	ODB	NTPC	PM works & Relay testing.	MAY be planned during Maithon - Khg - D/C shutdown
232	400KV NSLG-Purnea Ckt-1	20/07/2016	08:00	22/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	
233	400 KV Farakka- Kahalgaoon 1 & 2	20/07/2016	08:00	20/07/2016	18:00	ODB	ER-II/KOL	Stringing between Loc. No. 5A/0 to 6/0 of LILO of 400 KV Rajarhat- Purnea D/c at Farakka .	NLDC
234	400KV MAIN BUS-2 - Sundergarh	21/07/2016	07:00	23/07/2016	19:00	OCB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	
235	400KV BUS -2 AT CHAIBASA	21/07/2016	09:00	21/07/2016	17:00	ODB	ER-I	FOR EXTENSION OF BUS FOR 400 KV CBS - JSR - II AND STABILITY TEST	
236	132KV KARAMNASHA-MOHANIA	21/07/2016	10:00	21/07/2016	18:00	ODB	ER-I	BAY AMP WORK AT BSPTCL KARAMNASHA END	BIHAR
237	400 KV MAIN BAY OF 80MVAR B/R AT CHAIBASA	22/07/2016	09:00	22/07/2016	16:00	ODB	ER-I	FOR REPLACEMENT OF FAULTY CARD OF CSD	
238	400 KV RNC - MAITHON , 400 KV RNC - MTN (RB) -1 AND 2	23/07/2016	08:00	23/07/2016	17:00	ODB	ER-I	FOR DIAMOND FORMATION OF 400 KV RNC - MTN (RB) T/L	
239	400 KV TIE BAY OF 80MVAR B/R AT CHAIBASA	23/07/2016	09:00	23/07/2016	11:00	ODB	ER-I	FOR OIL SAMPLING OF CGL CT.	
240	400KV RANCHI - MAITHAN -1, 400KV RANCHI - RAGHUNTAHPUR-2, 400KV RANCHI - NEWRANCHI - 1, 400KV RANCHI - NEW RANCHI -2	23/07/2016	08:00	23/07/2016	17:00	ODB	ER-I	FOR DIAMOND FORMATION OF EARTH WIRE BETWEEN 400 KV D/C RANCHI - MAITHAN AND RANCHI - NEW RANCHI LINE	NLDC/DVC/MPL
241	220 KV BUS -2 AT NEW PURNEA	23/07/2016	10:00	23/07/2016	17:00	ODB	ER-I	ISOLATOR ALIGNMENT WORK. RESPECTIVE BAY TO TRANSFERED TO TBC.	
242	400kV NSLG-Purnea Ckt-2	23/07/2016	08:00	25/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	
243	ICT-I (3x 105 MVA) - Jeypore	25/07/2016	10:30	25/07/2016	11:30	ODB	ER-II/Odisha	For changing ICT-I combination form Unit-I, II, IV to Unit-II,III and IV for charging Unit-III after New Oil replacement	OPTCL
244	765/400KV, 1500MVA ICT-1 - Sundergarh	25/07/2016	07:00	26/07/2016	19:00	ODB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	NLDC
245	400 KV BUS -2 & BUS -4 AT BIHARSHARIF	25/07/2016	08:00	25/07/2016	18:00	ODB	ER-I	FOR INTERCONNECTING OF JUMPERS WITH BUS -2 TO BUS -4 AND STABILITY TEST.(UNDER SPLIT BUS CONSTRUCTION WORK AT BSF)	
246	315 MVA ICT -1 AT BSF	25/07/2016	08:00	25/07/2016	18:00	ODB	ER-I	FOR INTERCONNECTING OF JUMPERS WITH BUS -2 TO BUS -4 AND STABILITY TEST..(UNDER SPLIT BUS CONSTRUCTION WORK AT BSF)	BIHAR
247	400 KV BIHARSHARIF - LAKHISARAI -2	25/07/2016	08:00	25/07/2016	18:00	ODB	ER-I	FOR INTERCONNECTING OF JUMPERS WITH BUS -2 TO BUS -4 AND STABILITY TEST.	
248	400 KV BIHARSHARIF - LAKHISARAI -1	25/07/2016	08:00	25/07/2016	18:00	ODB	ER-I	FOR INTERCONNECTING OF JUMPERS WITH BUS -2 TO BUS -4 AND STABILITY TEST..(UNDER SPLIT BUS CONSTRUCTION WORK AT BSF)	
249	400 KV BUS -1 AT BIHARSHARIF	26/07/2016	08:00	26/07/2016	18:00	ODB	ER-I	FOR DROPPER CONNECTION OF JACK BUS CONNECETED TO ICT - 1 & LAKHISARAI -2 WITH BUS -1.(UNDER SPLIT BUS CONSTRUCTION WORK AT BSF)	

250	220kV SLG-Kishanganj Ckt-1	26/07/2016	08:00	27/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	
251	765/400KV, 1500MVA ICT-2 - Sundergarh	27/07/2016	07:00	28/07/2016	19:00	ODB	ER-II/Odisha	TO ATTEND MECHANICAL INTERLOCK PROBLEM (CONSTRUCTIONAL DEFECT) OF ALL 400KV SIEMENS MAKE ISOLATORS.	NLDC
252	220kV SLG-Kishanganj Ckt-2	28/07/2016	08:00	29/07/2016	17:00	ODB	ER-II/KOL	Insulator replacement in crossings	
253	132 KV TRANSFER BUS PURNEA	28/06/2016	09:00				ER-I	PERMANET REMOVAL OF TRANSFER BUS IS REQUIRED FOR GIS BUILDING AND ASSOCIATED CIVIL WORK	BIHAR
254	132 KV BSPTCL#3 LINE PURNEA	28/06/2016	09:00	28/06/2016	17:00	ODB	ER-I	1.Removing of equipment jumpers and installation of suspension insulator of BSPTCL-3 line bay.(revised drawing is under approval).	BIHAR
255	132 KV BSPTCL#3 LINE PURNEA	29/06/2016	09:00	29/06/2016	17:00	ODB	ER-I		BIHAR
256	132 KV BSPTCL#3 LINE PURNEA	30/06/2016	09:00	30/06/2016	17:00	ODB	ER-I		BIHAR
257	220 kV NPRN-PRN#1 line	01/07/2016	09:00	01/07/2016	17:00	ODB	ER-I	Bay AMP work.	BIHAR
258	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) PURNEA	02/07/2016	09:00	12/07/2016	17:00	OCB	ER-I	For Neutral CT Replacement, Transformer cable replacement and OLTC Oil leakage arrest work of 160 MVA ICT#3 and dismantling of parallel connection of 100 MVA ICT# 4 with ICT#3	BIHAR
259	220 kV New Purne-Purnea Line	02/07/2016	09:00	02/07/2016	17:00	ODB	ER-I	For Dismantling of ERS Tower and 220 kV Conductor hanging from NPRN#2 gantry	BIHAR
260	160 MVA ICT-2 PURNEA	13/07/2016	09:00	13/07/2016	17:00	ODB	ER-I	For Tertiary bay connection work	BIHAR
261	160 MVA ICT-1 PURNEA	14/07/2016	09:00	14/07/2016	17:00	ODB	ER-I	For Tertiary bay connection work	BIHAR
262	132 KV KISHANGANJ- PURNEA LINE	03/07/2016	09:00	03/07/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus section which is above KISHANGANJ & ICT #2 bay	BIHAR
263	160 MVA ICT-2 PURNEA	04/07/2016	09:00	04/07/2016	17:00	ODB	ER-I		BIHAR
264	132 KV PURNEA - KISHANGANJ LINE	05/07/2016	09:00	05/07/2016	17:00	ODB	ER-I	1.Removing of equipment jumpers and installation of suspension insulator of KISHANGANJ line bay. (revised drawing is under approval).	BIHAR
265	132 KV PURNEA - KISHANGANJ LINE	06/07/2016	09:00	06/07/2016	17:00	ODB	ER-I		BIHAR
266	132 KV PURNEA - KISHANGANJ LINE	07/07/2016	09:00	07/07/2016	17:00	ODB	ER-I	1.Removing of equipment jumpers and installation of suspension insulator of ICT-2 bay. (revised drawing is under approval).	BIHAR
267	160 MVA ICT#2 PURNEA	08/07/2016	09:00	08/07/2016	17:00	ODB	ER-I		BIHAR
268	160 MVA ICT#2 PURNEA	09/07/2016	09:00	09/07/2016	17:00	ODB	ER-I	under approval).	BIHAR
269	160 MVA ICT#2 PURNEA	13/07/2016	09:00	13/07/2016	17:00	ODB	ER-I		BIHAR
270	132 KV BSPTCL#2 LINE PURNEA	14/07/2016	09:00	14/07/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus which is above TBC & BSEB- 2 bay	BIHAR
271	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) PURNEA	13/07/2016	09:00	13/07/2016	17:00	ODB	ER-I		BIHAR
272	132 KV BSPTCL#2 LINE PURNEA	14/07/2016	09:00	14/07/2016	17:00	ODB	ER-I	1.Removing of equipment jumpers and installation of suspension insulator of BSPTCL- 2 bay(revised drawing is under approval).	BIHAR
273	132 KV BSPTCL#2 LINE PURNEA	15/07/2016	09:00	15/07/2016	17:00	ODB	ER-I		BIHAR
274	132 KV BSPTCL#2 LINE PURNEA	17/07/2016	09:00	17/07/2016	17:00	ODB	ER-I		BIHAR
275	132 KV BSPTCL#1 LINE PURNEA	18/07/2016	09:00	18/07/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus which is above ICT 3 & BSPTCL 1 bay	BIHAR
276	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) PURNEA	19/07/2016	09:00	19/07/2016	17:00	ODB	ER-I		BIHAR
277	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) PURNEA	20/07/2016	09:00	20/07/2016	17:00	ODB	ER-I	1.Removing of equipment jumpers and installation of suspension insulator of ICT-3 bay(revised drawing is under approval). 2. Dismantling of existing tandem isolators /BPI of R & B phases of ICT -3 bay. 3. Installing /erecting of BPI(existing) on new proposed	BIHAR
278	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) PURNEA	21/07/2016	09:00	21/07/2016	17:00	ODB	ER-I		BIHAR
279	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) PURNEA	22/07/2016	09:00	22/07/2016	17:00	ODB	ER-I		BIHAR
280	132 KV BSPTCL#1 LINE PURNEA	23/07/2016	09:00	23/07/2016	17:00	ODB	ER-I	1.Removing of equipment jumpers and installation of suspension insulator of BSPTCL- 1 bay(revised drawing is under approval).	BIHAR
281	132 KV BSPTCL#1 LINE PURNEA	24/07/2016	09:00	24/07/2016	17:00	ODB	ER-I		BIHAR
282	132 KV BSPTCL#1 LINE PURNEA	25/07/2016	09:00	25/07/2016	17:00	ODB	ER-I		BIHAR
283	400KV Ma+B6:H22ithon Gaya-I/Kahalgaon-II Tie Bay (417)	11/06/2016	09:00	24/06/2016	18:00	OCC	ER-II/KOL	CB Retrofitting work of 400kV BHEL CB	

284	400KV Maithon Gaya-I line	24/06/2016	09:00	24/06/2016	18:00	ODB	ER-II/KOL	Fixing of earlier removed pipe bus for taking the newly installed CB into service	
285	400KV Maithon Gaya-II line	25/06/2016	09:00	25/06/2016	18:00	ODB	ER-II/KOL	Removal of Bus Pipe for retrofitting work of CB	
286	400kv MTN Gaya-II/ICT-II TIE Bay	25/06/2016	09:00	09/07/2016	18:00	OCC	ER-II/KOL	CB Retrofitting work of 400kv BHEL CB	
287	315MVA ICT-I AT Maithon	28/06/2016	09:00	30/06/2016	18:00	OCC	ER-II/KOL	Removal of Jumper of ICT-I, connection of Jumpers and other work related to Charging of 500MVA ICT-III through 220kv ICT-I Bay.	DVC
288	315MVA ICT-II AT Maithon	10/06/2016	09:00	10/06/2016	18:00	ODB	ER-II/KOL	Tan Delta of 220KV R-PH Bushing at variable frequency.AMP, Connector replacement	DVC
289	220 KV MTN-DHANBAD-I	12/06/2016	09:00	12/06/2016	17:00	ODB	ER-II/KOL	AMP Works.	DVC
290	220KV Maithon - Kalyaneshwari-1 line	13/06/2016	09:00	13/06/2016	17:00	ODB	ER-II/KOL	Alignment adjustment of line isolator and Insulator replacement	DVC
291	220KV Maithon - Kalyaneshwari-2 line	15/06/2016	09:00	15/06/2016	17:00	ODB	ER-II/KOL	Alignment adjustment of line isolator and Insulator replacement	DVC
292	400KV MTN-Gaya-I LR (Switchable)	16/06/2016	09:00	16/06/2016	14:00	ODB	ER-II/KOL	CSD card replacement and on load testing of Reactor	
293	400kv Mejia-III Main bay	18/06/2016	09:00	22/06/2016	17:00	OCC	ER-II/KOL	O/H of BHEL CB	
294	400 KV Bus Reactor JERAT	20/06/2016	09:00Hrs	28/06/2016	17:30Hrs	ODB	ER-II/KOL	Off line filtration of all three units Reactor to Isolator	WBSETCL
295	400 KV Bus Reactor Main Bay JERAT	25/06/2016	17:30Hrs	25/06/2016	09:00Hrs	OCB	ER-II/KOL	Bus Reactor CB retrofitt work.	WBSETCL
296	220 KV Main Bus #1 SGRAM	27/06/2016	09:00Hrs	27/06/2016	17:30Hrs	ODB	ER-II/KOL	Bus-I Bph CVT inspection	WBSETCL
297	400 KV Bus Reactor JERAT	28/07/2016	09:00Hrs	28/07/2016	17:30Hrs	ODB	ER-II/KOL	Final protection testing of new CB and erection of IPS tube from Bus Reactor to new Isolator	WBSETCL
298	400KV Jeerat-SGR Line	30/06/2016	09:00Hrs	30/06/2016	17:30Hrs	ODB	ER-II/KOL	Line Yph CVT replacement	WBSETCL
299	220kv S'gram-CESC-2	04/07/2016	09:30Hrs	04/07/2016	15:30Hrs	ODB	ER-II/KOL	To attend hot spot in Y-Ph CT	WBSETCL
300	220 KV SUBHASGRAM- WBSETCL Line # 1	05/07/2016	07:00Hrs	05/07/2016	17:30Hrs	ODB	ER-II/KOL	Tan delta measurement and replacement of CT as per requirment	WBSETCL
301	315 MVA ICT-III SGRAM	07/07/2016	09:00Hrs	07/07/2016	17:30 HRS	ODB	ER-II/KOL	Relay retrofit	WBSETCL
302	315 MVA ICT-V SGRAM	09/07/2016	09:00Hrs	09/07/2016	17:30 HRS	ODB	ER-II/KOL	PSD commissioning	WBSETCL
303	Jeerat 400 KV Bus - II	11/07/2016	09:00Hrs	11/07/2016	17:30Hrs	ODB	ER-II/KOL	Bus Reactor Bus-II Isolator retrofit	WBSETCL
304	220 KV Main Bus #2 SGRAM	12/07/2016	09:00Hrs	12/07/2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
305	220 KV Bus Coupler SGRAM	14/07/2016	09:00Hrs	14/07/2016	15:00Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
306	315 MVA ICT-I SGRAM	16/07/2016	09:30Hrs	16/07/2016	13:30 HRS	ODB	ER-II/KOL	220KV Bph LA inspection	WBSETCL
307	132kv Rangpo-Rangit TL	15/06/2016	09:00 Hrs	15/06/2016	16:00 Hrs	ODB	ER-II/KOL	Replacement of flashed insulator string	
308	132kv Siliguri-Melli TL	16/06/2016	09:00 Hrs	16/06/2016	16:00 Hrs	ODB	ER-II/KOL	Replacement of flashed insulator string	SIKKIM
309	132 KV Main Bus Birpara	14/06/2016	06:00 Hrs	14/06/2016	07:30 Hrs	ODB	ER-II/KOL	For replacement of Main Bus isolator of 132 KV Birpara (PG)-132 Birpara (WB)-I. After opening bus dropper, the subject feeder will be charged through TBC.	AS PER WBSETCL. SHALL BE ALLOWED DURING WINTER SEASON. SHALL BE REVIEWED IN NEXT OCC.
310	132 KV Main Bus Birpara	17/06/2016	06:00 Hrs	17/06/2016	07:30 Hrs	ODB	ER-II/KOL	For normalization of Main Bus isolator of 132 KV Birpara (PG)-132 Birpara (WB)-I & replacement of Main Bus isolator of 132 KV Birpara (PG)-132 Birpara (WB)-II. After opening bus dropper, the subject feeder will be charged through TBC.	AS PER WBSETCL. SHALL BE ALLOWED DURING WINTER SEASON. SHALL BE REVIEWED IN NEXT OCC.
311	132 KV Main Bus Birpara	20/06/2016	06:00 Hrs	20/06/2016	07:30 Hrs	ODB	ER-II/KOL	For normalization of Main Bus isolator of 132 KV Birpara (PG)-132 Birpara (WB)-II & replacement of Main Bus isolator of 132 KV TBC.	AS PER WBSETCL. SHALL BE ALLOWED DURING WINTER SEASON. SHALL BE REVIEWED IN NEXT OCC.

312	132 KV Main Bus Birpara	23/06/2016	06:00 Hrs	23/06/2016	07:30 Hrs	ODB	ER-II/KOL	For normalization of Main Bus isolator of 132 KV TBC.	AS PER WBSETCL. SHALL BE ALLOWED DURING WINTER SEASON. SHALL BE REVIEWED IN NEXT OCC.
313	132 KV Main Bus MALDA	26/06/2016	06:00 Hrs	26/06/2016	07:30 Hrs	ODB	ER-II/KOL	For replacement of Main Bus isolator of 132 KV Malda (PG)-132 Malda (WB)-I. After opening bus dropper, the subject feeder will be charged through TBC.	AS PER WBSETCL. SHALL BE ALLOWED DURING WINTER SEASON. SHALL BE REVIEWED IN NEXT OCC.
314	132 KV Main Bus MALDA	30/06/2016	06:00 Hrs	30/06/2016	07:30 Hrs	ODB	ER-II/KOL	For normalization of Main Bus isolator of 132 KV Malda (PG)-132 Malda (WB)-I & replacement of Main Bus isolator of 132 KV Malda (PG)-132 Malda (WB)-II. After opening bus dropper, the subject feeder will be charged through TBC.	AS PER WBSETCL. SHALL BE ALLOWED DURING WINTER SEASON. SHALL BE REVIEWED IN NEXT OCC.
315	132 KV Main Bus MALDA	03/07/2016	06:00 Hrs	03/07/2016	07:30 Hrs	ODB	ER-II/KOL	For normalization of Main Bus isolator of 132 KV Malda (PG)-132 Malda (WB)-II & replacement of Main Bus isolator of 132 KV TBC.	AS PER WBSETCL. SHALL BE ALLOWED DURING WINTER SEASON. SHALL BE REVIEWED IN NEXT OCC.
316	132 KV Main Bus MALDA	07/07/2016	06:00 Hrs	07/07/2016	07:30 Hrs	ODB	ER-II/KOL	For normalization of Main Bus isolator of 132 KV TBC.	AS PER WBSETCL. SHALL BE ALLOWED DURING WINTER SEASON. SHALL BE REVIEWED IN NEXT OCC.
317	160 MVA ICT-II MALDA	28/06/2016	08:00	29/06/2016	15:00	ODB	ER-II/KOL	Other 160 MVA & 50 MVA ICT will be in service.	WBSETCL
318	160 MVA ICT-I MALDA	30/06/2016	07:00	30/06/2016	17:00	ODB	ER-II/KOL	Other 160 MVA & 50 MVA ICT will be in service.	WBSETCL

Annexure-C.2

Anticipated Power Supply Position for the month of
Jul-16

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
	i) NET MAX DEMAND	3600	2185
	ii) NET POWER AVAILABILITY- Own Source (including bilateral)	700	301
	- Central Sector	2563	1824
	iii) SURPLUS(+)/DEFICIT(-)	-337	-60
2	JHARKHAND		
	i) NET MAX DEMAND	1100	750
	ii) NET POWER AVAILABILITY- Own Source (including bilateral)	503	296
	- Central Sector	617	380
	iii) SURPLUS(+)/DEFICIT(-)	20	-74
3	DVC		
	i) NET MAX DEMAND (OWN)	2710	1680
	ii) NET POWER AVAILABILITY- Own Source	4639	2485
	- Central Sector	350	365
	Long term Bi-lateral (Export)	1500	967
	iii) SURPLUS(+)/DEFICIT(-)	779	204
4	ORISSA		
	i) NET MAX DEMAND	4000	2455
	ii) NET POWER AVAILABILITY- Own Source	3200	1700
	- Central Sector	1124	757
	iii) SURPLUS(+)/DEFICIT(-)	324	2
5	WEST BENGAL		
5.1	WBSEDCL		
	i) NET MAX DEMAND (OWN)	5794	3512
	ii) CESC's DRAWAL	0	0
	iii) TOTAL WBSEDCL's DEMAND	5794	3512
	iv) NET POWER AVAILABILITY- Own Source	3215	1909
	- Import from DPL	116	37
	- Central Sector	2121	1470
	v) SURPLUS(+)/DEFICIT(-)	-342	-96
	vi) EXPORT (TO B'DESH & SIKKIM)	260	193
5.2	DPL		
	i) NET MAX DEMAND	310	216
	ii) NET POWER AVAILABILITY	426	253
	iii) SURPLUS(+)/DEFICIT(-)	116	37
5.3	CESC		
	i) NET MAX DEMAND	1840	975
	ii) NET POWER AVAILABILITY - OWN SOURCE	730	591
	FROM HEL	530	318
	FROM CPL/PCBL	40	0
	Import Requirement	550	66
	iii) TOTAL AVAILABILITY	1855	975
	iv) SURPLUS(+)/DEFICIT(-)	15	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
	i) NET MAX DEMAND	7944	4703
	ii) NET POWER AVAILABILITY- Own Source	4371	2753
	- Central Sector+Others	3201	1788
	iii) SURPLUS(+)/DEFICIT(-)	-372	-162
7	SIKKIM		
	i) NET MAX DEMAND	90	34
	ii) NET POWER AVAILABILITY- Own Source	10	7
	- Central Sector+Others	146	101
	iii) SURPLUS(+)/DEFICIT(-)	66	74
8	EASTERN REGION At 1.03 AS DIVERSITY FACTOR		
	i) NET MAX DEMAND	18878	11807
	Long term Bi-lateral by DVC	1500	967
	EXPORT BY WBSEDCL	260	193
	ii) NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	21424	12758
	iii) PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	786	-209



ODISHA POWER TRANSMISSION CORPORATION LIMITED
(A Government of Odisha Undertaking)
 Regd. Office: Janapath, Bhoinagar, Bhubaneswar – 751 022
CIN-U4012OR2004SGC007553

Er. P.C.Tripathy, CGM (O&M)

FAX No. 0674-2542932
 Phone No-0674-2542478(O)

No.-SO-SS-C-19/2003(Vol-I) - 772

Dt. 06.06.16

To

The Chief Load Despatcher,
 SLDC, OPTCL,
 Bhubaneswar.

Sub:- Raising issues of OPTCL with PGCIL in OCC Forum of ERPC.

Sir,

OPTCL had invited PGCIL for a meeting on 26th April, 2016 for discussion regarding 'Finalizing modalities for O&M Charges of Lines, Bays and Equipments available in Sub-Stations of OPTCL, OHPC and PGCIL' and 'Maintenance of 400KV Main and Tie Bays of OHPC at Indravati Sub-Station of PGCIL. As PGCIL did not attend the same, the meeting was re-scheduled to 2nd June, 2016. PGCIL also did not attend the meeting on the re-scheduled date.

In view of non-participation of PGCIL, it is requested that the above issues be raised in the ensuing meeting of OCC Forum of ERPC. The summary of above issues are attached herewith.

Yours faithfully,

Encl: Summary of issues with PGCIL


CHIEF GENERAL MANAGER(O&M)

CC:-

- (a) EA to CMD, OPTCL, Bhubaneswar for kind information of CMD.
- (b) Director(Commercial), GRIDCO, Bhubaneswar.
- (c) Director(Operation), OHPC, Janpath, Bhubaneswar.

Finalizing modalities for:-

(a) Operation & Maintenance Charges of Lines, Bays and Equipments available in Sub-Stations of OPTCL, OHPC and PGCL.

-MOM of meeting held on 10th September, 2015 still not signed

Sl No	Name of Bay/Line	Date of Commissioning	O&M presently done by	O&M Charges as claimed by PGCL	As discussed in meeting held on 10.09.2015
1	400KV OSEB Bays in Power Grid Indravati S/S	02.09.1999	PGCIL	-O&M charges shall be payable to Power Grid for the past 16 years (up to 30 th September, 2015) as per joint agreed rate	O&M charges shall be payable to Power Grid wef October, 2015 at CERC norm for 2014-19 (Chapter-6, para-29.3a) i.e Rs 60.30 lakh/bay/year
2	400KV Indravati(PG)-Indravati(OHPC)(4kms)	02.09.1999	PGCIL	-O&M charges shall be payable to Power Grid for the past 16 years (up to 30 th September, 2015) as per joint agreed rate	O&M charges shall be payable to Power Grid wef October, 2015 at CERC norm for 2014-19 (Chapter-6, para-29.3a) i.e Rs 0.404 lakh/km/year
3	400KV Line bays with 63MVAR Line Reactor at Mendhashal Grid S/S of OPTCL. (2nos Bays and 2 nos Reactors)	31.08.2011	-Operation being carried out by OPTCL -Maintenance being carried out by Power Grid	Operation charges payable by Power Grid to OPTCL is to be discussed, calculated and mutually agreed.	
4	400KV Bays and 80MVAR Bus Reactor at New Duburi Grid S/S of OPTCL. (3nos Bays and 1 no Reactor)	17.08.15	-Operation being carried out by OPTCL -Maintenance being carried out by Power Grid	Operation charges payable by Power Grid to OPTCL is to be discussed, calculated and mutually agreed.	
5	220KV Bays in Rengali S/S of Power Grid-2 nos	01.03.1990	PGCIL	O&M charges to be finalized after confirmation of ownership.	
6	220KV Bays in Jeypore S/S of Power Grid-2 nos	01.03.1990	PGCIL	O&M charges to be finalized after confirmation of ownership.	
7	400KV 80MVAR Reactor and its Bay at Meramundali S/S of OPTCL	29.04.05	-Operation being carried out by OPTCL -Maintenance being carried out by Power Grid		

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7	400KV, 3x105MVA ICT at OHPC, Indravati	31.03.2006	-Operation being carried out by OHPC -Maintenance being carried out by Power Grid		
8	Under construction 2 nos 220KV Bays at Jeyapore S/S of PGCIL			OTM changes shall be arrived at, after Commissioning of the bays. Construction and OTM now need to be signed immediately	
9	Under construction 2 nos 132KV Bays at Baripada S/S of PGCIL			- do -	

(b) Maintenance of 400KV Main & Tie Bays of OHPC at Indravati Sub-Station of PGCIL.

-OHPC Tie bay is out of service due to failure of 400KV BHEL CB 'R' phase limb on 18th March, 2016.

-Also OHPC 400KV Main Bay CB is in bad condition and may fail at any time.

-due to above problem power evacuation of OHPC, Mukhiguda through Power Grid will be totally interrupted

-As per discussion in 94th PSOC Meeting on 29th March, 2016, OPTCL was asked to arrange for 1no 400KV CB Pole and 1no 400KV CT. Estimated service charges of BHEL for restoration of CB will be Rs 5 lakhs (Service charges of BHEL Engineer @ Rs 50000/- per day for 10 days + Hiring Charges of Crane Rs 1 lakh)

-Estimated cost for overhauling with spares/consumables of 2 sets CBs shall be approximately Rs 25 lakhs. The same is to be deposited by OPTCL/OHPC to Power Grid.

-If the above proposal of Power Grid is not acceptable, OPTCL/OHPC are to carry out the restoration of damaged CB and CT including overhauling of CBs themselves.

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