



Minutes
of
118th OCC meeting

Eastern Regional Power Committee

**Date: 08.03.2016
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033**

Eastern Regional Power Committee

Minutes of 118th OCC Meeting held on 26th February, 2016 at ERPC, Kolkata

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

Item no. 1: Confirmation of minutes of 117th OCC meeting of ERPC held on 22.01.2016

The minutes were uploaded in ERPC website and circulated vide letter dated 04.02.2016 to all the constituents. No comments were received till date.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 117th 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. Teesta White Water Rafting Expedition by Indian Army
- B.3. Charging of 220 KV Raigarh (PGCIL)- Budhipadar line
- B.4. Under performance of Thermal Power Stations of Eastern Region
- B.5. Status of UFRs healthiness installed in Eastern Region
- B.6. Healthiness of SPS existing in Eastern Region
- B.7. Network & Chuzachen SPS review proposal in view of reduced NOC – Chuzachen
- B.8. Status of Islanding Schemes of Eastern Region
- B.9. 11KV Auxiliary power supply of Powergrid Substation
- B.10. Status of PLCC system installed in Eastern Region
- B.11. Status update of previous decisions/follow up actions
- B.12. Third Party Protection Audit
- 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. Sub-committee on “Integration of Renewable Energy Sources”.
- B.17. Data of Peak Demand
- B.18. Erroneous recording of data by Interface Meters
- B.19. Pollution mapping for Eastern Region
- B.20. Recovery Procedures of ER Constituents
- B.21. Nodal coordinators for web based scheduling software
- B.22. Dynamic data of Generator Models required in PSSE for Simulations
- B.23. Furnishing of data for preparation of reports
- B.24. Scheduling of Un-requisitioned Surplus (URS) power from ISGS
- B.25. Demand and Generation Projection of ER constituents for POC
- B.26. Furnishing Data to CTU for TTC/ATC estimation in planning horizon
- B.27. Details of HTLS conductors
- B.28. Auto-Reclose (A/R) scheme of 400kV Jeypore- Gajuwaka D/C line
- B.29. Mock Black start exercises in Eastern Region
- B.30. New SCADA system
- B.31. Restricted Governor Mode of Operation
- B.32. Reactive Power performance of Generators and GT tap position optimization

PART B

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

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

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

1. 400kV Rangpo-Teesta stage-III circuit-I and II bay at Rangpo (bay no-402 and 406) first time charged at 16:18hrs and 16:37hrs of 07/01/16 respectively.
2. 400kV Rangpo-Kishanganj circuit-I and II bay at Rangpo (bay no-404 and 408) first time charged at 16:31hrs and 16:41hrs of 07/01/16 respectively.
3. 80MVA Station Transformer-IV at Sagardighi first time charged on no load at 17:22hrs of 08/01/16 from 400kV side.
4. 400kV Bus sectionalizer breaker-I at Maithon first time charged at 18:20hrs of 15/01/16.
5. 765/400kV, 1500MVA ICT-III at Angul first time charged at 12:43hrs of 23/01/16.
6. 765kV Angul-Jharsuguda-I along with associated bays and 240MVA L/R at both Angul and Jharsuguda ends first time charged at 17:30hrs of 25/01/16.
7. 160MVA ICT-I at Siliguri first time charged on no load at 23:59hrs of 29/01/16.
8. 220/132kV, 100MVA ICT along with associated bays and 132kV bay of Muzaffarpur-Nepal-II at Muzaffarpur first time charged at 22:11hrs of 31/01/16.
9. 132/33 kV new 50 MVA Transformer at Bodhgaya (BSPTCL) GSS charged on 08.01.2016
10. 220/132 kV new 100 MVA Transformer at Khagaul (BSPTCL) GSS charged on 16.01.2016
11. 220/132 kV new 160 MVA Transformer at Darbhanga (BSPTCL) GSS charged on 18.01.2016
12. 220kV M.B. #1 & 2 of 220/132 KV DHARAMPUR GIS (WBSETCL) S/S charged via LILO arrangement of 220kV JRT-RISH #2 on 24.01.16 at 19:05hr & 19:07hr respectively.
13. 220/132kv 160MVA Tr #1 & 2 of 220/132 KV DHARAMPUR GIS (WBSETCL) S/S loaded in parallel on 25.01.16 at 12:58hr & 12:59hr respectively.
14. 220KV Krishnagar-Gokarna D/C lines (105.5 km) Charged & Loaded on 28.01.16 at 11:45 Hrs.

Other constituents may update (if any).

Deliberation in the meeting

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.

Members agreed to comply.

Item No. B.2: Teesta White Water Rafting Expedition by Indian Army

Indian Army vide letter dated 05.02.16 has proposed for White water rafting expedition to be conducted by 11th Battalion of the Mahar Regiment from Balutar to Sevoke Road for the same reason.

The proposal requires direction to be given to Teesta V, TLDP III & TLDC IV projects for release of water as per the following tabulated schedule:

Sl. No.	Stretch	Dates of Conduct	Waters to be released from	Timing
a	Balutar (Sikkim) to Rangpo Chu Teesta Confluence, Rangpo	29 Feb 16	Teesta V	0900-1200 hrs
b	Rangpo Chu Teesta Confluence, Rangpo (Sikkim) to Rilli Khola Teesta Junction Nazeok (WB)	01 Mar 16	TLDP III	0900-1200 hrs
c	Rilli Khola Teesta Junction Nazeok (WB) to Sevoke Road, Jalpaiguri (WB)	02 Mar 16	TLDP IV	0900-1200 hrs

Members may discuss and co-operate with Indian Army.

Deliberation in the meeting

Members agreed to co-operate with Indian Army and accepted the proposal of Indian Army.

Item No. B.3: Charging of 220 KV Raigarh (PGCIL)- Budhipadar line

The Issue was discussed in 117th OCC meeting followed by discussion in 32nd TCC.

In 117th OCC, OPTCL, being the owner of the line, was advised to submit B1 to B5 formats to ERLDC and review the protection settings at Budhipadar end for charging the line.

The formats related to other section of line will be submitted by CSPTCL to WRLDC

OPTCL vide letter dated 06.02.16 intimated that they have not received any communication from PGCIL regarding proposal of LILO of 220kV Raigarh(CSPTCL)-Budhipadar line at 400/200 KV PGCIL Raigarh s/s. OPTCL maintains 61Km of this line with the rest of the line in Chhattisgarh being maintained by CSPTCL. According to OPTCL, in this case, the intending licensee i.e PGCIL/CSPTCL need to submit the requisite formats to ERLDC.

ERPC/ERLDC/OPTCL may update. OCC may discuss.

Deliberation in the meeting

It was informed that in 32nd TCC Meeting, OPTCL informed that 60 km line belongs to them and some details such as protection settings, meter and communication details are needed to fill B1 to B5 formats.

TCC advised OPTCL to coordinate with Powergrid and submit the formats and advised Powergrid to provide the relevant information to OPTCL.

ERPC Secretariat informed that they will interact with WRPC/WRLDC for charging the line.

Item No. B.4: Under performance of Thermal Power Stations of Eastern Region

CEA indicated that few thermal power stations of Eastern Region are running on low PLF. The list of such Thermal Power Stations running under PLF less than the national average PLF of 60.90% is enclosed at **Annexure-B.4**.

On advice from CEA in OCC meetings generators were requested to place their roadmap for improvement of PLF, Heat Rate, secondary fuel oil and auxiliary power consumption of their Thermal Power Stations.

Till date except TVNL, HEL, WBPDC and DVC had furnished the requisite information.

The issue was placed in 32nd TCC also.

Other generators of Eastern Region may update post TCC status of their compliance.

Deliberation in the meeting

NTPC informed that they are calculating the PLF station wise where as in CEA list it was given as unit wise.

OCC advised NTPC to submit their observations with roadmap for improvement of performance to CEA. NTPC agreed.

Item No. B.5: Status of UFRs healthiness installed in Eastern Region

UFR Healthiness Certification for the month of January, 2016 has been received from WBSETCL, CESC and OPTCL only.

However, in 117th OCC it was informed that the following UFRs of DVC and JUSNL were not in service:

SI No	Name of Utility	Name of sub-station	Feeder Details	CD (MVA)	In-service	Results/Remarks
1	DVC	Hazaribagh	JSEB Hazaribagh	50	No	Commissioning taken up.
2	JUSNL	Adityapur	33 kV Adityapur-I		No	Not in service
3			33 kV Adityapur-II		No	Not in service

DVC and JUSNL may update.

DVC, JUSNL and BSPTCL may submit UFRs healthiness certificate.

Deliberation in the meeting

DVC informed that commissioning of UFR at Hazaribagh is in progress.

JUSNL informed that order has been placed for UFRs of 33 kV Adityapur-I & II.

*It was informed that DVC, JUSNL & BSPTCL have submitted the UFR healthiness certificate. The consolidated certificate from all the constituents is available at **Annexure-B.5**.*

Item No. B.6: Healthiness of SPS existing in Eastern Region

NTPC vide mail dated 08.02.16 intimated that healthiness of SPS at their end would be checked on 16.02.16

NTPC may update and submit the SPS healthiness certificate. JITPL and Chuzachen are also requested to submit the SPS healthiness certificate for the months of December 2015 and January 2016. Powergrid is also requested to submit the certificate in respect of SPS at Beharampur and Orissa.

Deliberation in the meeting

*It was informed that CESC, JITPL, Powergrid-Odisha and Chuzachen have submitted the healthiness certificate. The same is given at **Annexure- B.6**.*

It was also informed that the on 18.02.2016 testing of the SPS was allowed to NTPC. But due to non-representation of NTPC (TSTPS) the actual status could not be ascertained.

NTPC was advised to submit the healthiness certificate at the earliest.

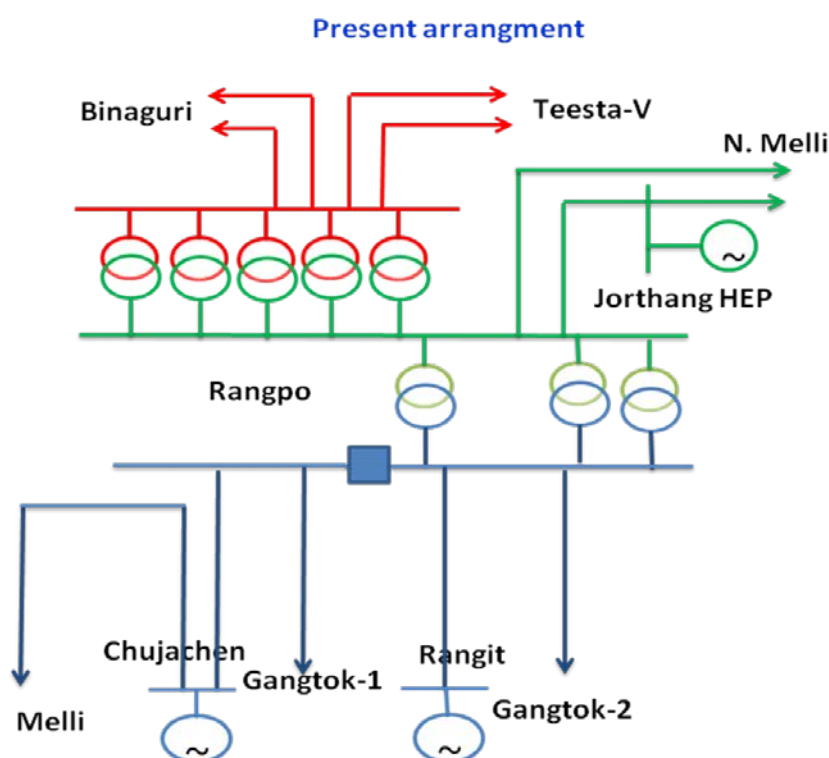
OCC advised GMR, Vedanta & Powergrid ER-II to submit the healthiness certificate at the earliest.

ERLDC informed that generation relief of around 500 MW has been provided by Sterlite, JITPL and GMR on 21st & 22nd Feb, 2016.

OCC appreciated Powergrid-Odisha, Sterlite, JITPL and GMR for giving generation relief on the SPS operation.

Item No. B.7: Network & Chuzachen SPS review proposal in view of reduced NOC – Chuzachen

To accommodate generators like Teesta, Chuzachen, Jorthang HEP to the maximum extent possible through already congested network a modification scheme in the associated network was discussed in 114th OCC. The present arrangement is as follows:



In 31st TCC PGCIL informed that the proposal of Bus-Split scheme at 132KV Rangpo S/S as approved in 114th OCC meeting are being studied by its engineering wing and roadmap for implementation of the scheme will be placed in 115th OCC meeting scheduled to be held on 20.11.15.

In subsequent OCCs Powergrid assured that their corporate engineering division would undertake site visits and submit the report along with the cost estimate for implementation of the scheme.

Chuzachen and Jorthang HEP were advised to share costs as they are being benefited with this scheme

In 117th OCC, Powergrid informed that CTU has studied the proposal and provided two solutions, however the study report is expected within a week.

Powergrid was advised to submit the study report along with the feasible solution at least prior to 32nd ERPC meeting so that the same may be placed before the Board.

CTU placed one modified proposal in 32nd TCC. It is placed in **Annexure-B.7**.

Powergrid/CTU may update post TCC deliberation.

Deliberation in the meeting

Powergrid informed that work has been started and it will be completed by 27th Feb, 2016.

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 January 2016 has been received from BkTPS, Tata Power, and CTPS, DVC.

CESC may submit. Members may note.

Deliberation in the meeting

It was also informed that healthiness certificate has been received from CESC. The consolidated certificate from all the constituents is available at **Annexure-B.8**.

B.8.2: FSTPS Islanding Scheme, NTPC

In 113th OCC, NTPC informed that cable laying for implementation of islanding scheme was completed. Cable termination for bay wise breaker trippings and unit-linked wirings is in progress and will be completed by 30.09.2015.

In 115th OCC, Powergrid informed that the PLCC panels will be delivered by December, 2015 and Battery and Charger by January, 2016.

In 116th OCC, Powergrid informed that PLCC panels have been delivered to the site and the battery will be delivered by 15th January 2016. The PLCC system will be commissioned by March, 2016.

In 117th OCC, NTPC informed that their part is ready for implementation.

Powergrid informed that the battery would be delivered by 31st January, 2016. The PLCC system will be commissioned by March, 2016.

NTPC/Powergrid may update

Deliberation in the meeting

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.

B.8.3: Bandel Islanding Scheme, WBPDC

The islanding scheme has been placed before 31st TCC Meeting for further concurrence and in 31st TCC/ERPC meetings, members agreed and advised WBPDC to go ahead with the implementation of islanding scheme.

On the advice of subsequent OCCs, WBSETCL gave a detailed presentation of the islanding scheme and explained that additional load is included for winter season (December to February months) to improve the reliability of the islanding scheme.

WBSETCL was appreciated for detailed analysis and WBPDC was advised to go ahead with the implementation.

In 117th OCC, WBSETCL informed that the tentative roadmap for the implementation of islanding scheme has been forwarded to WBPDC.

WBPDC was advised to initiate the implementation of islanding scheme positively in next OCC

WBSETCL/WBPDC may update the latest status.

Deliberation in the meeting

WBPDC informed that the islanding scheme will be implemented by December, 2016.

Regarding PSDF funding, it was informed that PSDF funding for such type of schemes may not be appreciated as many other generators had already implemented the same post grid disturbance of 2012 with internal funding. OCC felt that since other islanding schemes were already funded from own source PSDF committees may not entertain the funding of Bandel scheme and thereby it will only delay the implementation.

OCC therefore advised WBPDC to start the work immediately as advised by 32nd TCC/ERPC.

Item No. B.9: 11KV Auxiliary power supply of Powergrid Substation.

a) 11KV Aux. power supply at 400/220KV Patna Substation:

In 112th OCC, BSPTCL informed that the issue is being considered and they are exploring to give 33 kV supply from 220/132/33 kV Sipara GSS with existing load of 420 KVA (which is lesser than 1000 KVA load for getting 33 kV supply) as a special case.

In subsequent OCCs with endorsement in a special deliberations with Director (Projects), BSPTCL with ERPC on 5.2.16 Powergrid was advised to interact with SBPDCL

32nd TCC was also informed of the issue.

BSPTCL/POWERGRID may update.

Deliberation in the meeting

Powergrid was advised to interact with SBPDCL.

b) Auxiliary power supply for 400KV Berhampore Powergrid Substation--Powergrid

As per Practice, 400KV Substation should have two nos auxiliary power supplies from two different sources. Accordingly, an application had been sent to WBSEDCL for arrangement of 11kV dedicated feeder from nearby Nabagram & Sagardighi Substations on deposit basis for the auxiliary supply of 400KV Berhampore Substation.

The construction of 11kV dedicated feeder from Nabagram has been completed and at present auxiliary power supply of Berhampore Substation is met from the said feeder. However, the reliability and availability of auxiliary supply from the Nabagram feeder is very poor.

Berhampore is a very important station of POWERGRID, feeding power to Bangladesh and West Bengal. The reliability and availability of 11KV auxiliary supply is very much essential for the reliable operation of Berhampore Substation.

WBSEDCL to maintain the reliability and availability of 11KV Nabagram feeder used for supplying auxiliary supply to Berhampore Substation and construct the dedicated Sagardighi feeder as second source of auxiliary supply to Berhampore Substation.

In 116th OCC, Powergrid was advised to interact with Director (Dist), WBSEDCL.

In 117th OCC, Powergrid informed that they are facing frequent interruption of auxiliary supply at 400kV Behrampore S/s and the reliability of feeder is 40% (approx).

WBSEDCL requested Powergrid to forward the interruption report along with duration and dates.

For second dedicated feeder, Powergrid was advised to interact with Director (Dist), WBSEDCL.

32nd TCC was also informed of the issue.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that even though duration of power cuts have been reduced but problem of frequent tripping of the line is still not resolved. The interruption report along with duration and dates has also been forwarded to WBSLDC/WBSEDCL.

Regarding second dedicated feeder, Powergrid informed that money has been deposited to WBSEDCL around two and half years back but there is no progress.

WBSEDCL assured to look into and resolve.

Item No. B.10: Status of PLCC system installed in Eastern Region

In 30th TCC/ERPC, Powergrid agreed to restore the PLCC system at both ends (its own end as well as the constituent end) of a line wherein the other ends are not operational for some reasons or others as one time job.

In subsequent OCCs, all the constituents were requested to go through the details of their respective control area and give their comments/suggestion.

In 117th OCC, OPTCL submitted that OPGW communication installation is under way and they are planning to implement carrier protection using OPGW. They will convene a joint meeting with Powergrid for finalization of scheme.

WBSETCL informed that they will have a separate meeting with the competent authority on the issue.

JUSNL informed that they have forwarded the cost estimate to their highest authority for approval.

32nd TCC was also informed of the issue.

Members may update.

Deliberation in the meeting

It was informed that as per 32nd TCC/ERPC deliberation---

OPTCL and BSPTCL will implement carrier protection on their own using OPGW.

WBSETCL informed that they will rectify the PLCC system on their own.

JUSNL informed that the amount has been sanctioned and the letter has been issued to Powergrid for rectification of PLCC system.

OCC advised Powergrid to start the work of JUSNL part at the earliest.

Powergrid informed that they will carry out the detail site visit of the substation to prepare the final cost estimate and submit to JUSNL for their consent. After getting the final concurrence from JUSNL they will start the work.

JUSNL assured to do the needful on receipt of final estimate.

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

B.11.1. Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)

Ind-Bharath updated the status in 116th OCC as follows:

- All the 125 towers foundations have been completed and 118 have been erected.
- Due to route alignment one tower (i.e. 126th tower) has been increased which is under ROW negotiation.
- Stringing work of 34 km out of 39.74 km line has been completed.
- The bay work at 400 kV Jharsuguda (Kenapalli) S/s is in advanced stage, being executed under the consultancy of Powergrid, will be completed ahead of line.
- Line is expected to be commissioned by 15th January, 2016.

Ind-Bharath may update the latest status.

Deliberation in the meeting

Ind-Bharat representative was not available for discussion.

B.11.2. 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.

TCC advised Vedanta to strictly adhere to the schedule.

In 116th OCC, Vedanta informed that forest clearance is still pending. However, it was informed that considerable progress has been made in tower foundations. Commissioning of line is expected by 15 April 2016.

In 117th OCC, Vedanta informed that 40 out of 66 foundations and installation of one tower have been completed. Vedanta was advised to ensure strict compliance with the direction of OCC and adhere to the timeline for construction of dedicated line

Latest progress report on construction of Sterlite-Jharsuguda D/C lines as on 13.02.2016 has been received from Vedanta Ltd vide mail dated 13.02.2016. The same is appended at **Annexure- B.11.2.**

Vedanta may update.

Deliberation in the meeting

Vedanta informed that 42 out of 66 foundations and installation of four towers have been completed. The expected date of commissioning of the line is July, 2016.

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

B.11.3. Status of construction of Chuzachen bay at Rangpo S/s.

In 31st TCC/ERPC meeting, Powergrid informed that payment has been received from Sikkim and they will start the construction work at the earliest.

In 116th OCC, Powergrid informed that tendering documents will be ready by December, 2015 after that DoP, Sikkim will do the tendering.

In 117th OCC, Powergrid informed that tendering documents will be ready within a week & after that DoP, Sikkim will do the tendering.

32nd TCC was also informed of the issue.

Sikkim, Powergrid may update.

Deliberation in the meeting

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

B.11.4. Non availability of important bays at FSTPP end

In 109th OCC, NTPC informed that 400kV FSTPP-KhSTPP-IV Tie bay will be charged by 1st week of June, 2015.

In 117th OCC, NTPC informed that the work will be done in February, 2016.

NTPC may update.

Deliberation in the meeting

NTPC informed that the work will be done in March, 2016.

OCC took serious note of non- charging of the tie bay even though shutdown was given on several occasions. OCC advised NTPC to complete the work at the earliest.

B.11.5. Non-availability of Tie bay of 400kV Sagardighi-Behrampore-II

In 117th OCC, WBPDCCL informed that the tie bay will be in service by February, 2016

WBPDCCL may update.

Deliberation in the meeting

WBPDCCL informed that the work has been delayed due to some problem of vendors..

ERLDC informed that 400 kV Sagardighi- Behrampore 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.

B.11.6. Non availability of both line Reactors of 400KV Malda-Purnea D/C

It has been observed that both the 63MVAR line reactors of 400kV Malda-Purnea D/C at Malda end are presently under outage. It may be noted that no reply has been received i.r.o mails forwarded by ERLDC to Powergrid in this regard. It may also be noted that on 20/11/15 during evening hours, while charging attempt of 400 KV Malda – Purnea –II was being taken from Malda end, 400 KV Malda - Purnea –I tripped on stage –I overvoltage protection.

Considering the necessity of availability of line reactors at Malda end, Powergrid may intimate the details regarding the outage date of the line reactors, their current status and their expected restoration dates.

In 116th OCC, Powergrid informed that the reactors will be in service by January, 2016.

In 117th OCC, Powergrid updated that Reactor-1 is not healthy & problem in winding is suspected. BHEL is taking abnormal time & for winding replacement NIT is under process. Commissioning of this reactor may take another 6 months.

Reactor-2 will be in service by end of January, 2016.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that Reactor-2 will be in service by 8th March, 2016.

B.11.7. 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 116th OCC, Powergrid informed that segregation of bus 1 and 3 are completed at Maithon and Bus 2 and 4 would be completed by 2nd week of January, 2016.

Powergrid was advised to share post splitting SLD and fault level of the sub-station to PCC in order to facilitate revise the protection settings as per the new bus bar scheme.

In 117th OCC, Powergrid informed that bus segregation has been completed at 400kV Maithon S/s. Busbar relay panels are installed and CT connections have to be bifurcated which will take 15-20 days.

Powergrid informed that bus bar protection REB 670 is installed at 400kV Durgapur and it is in service.

Powergrid may update.

Deliberation in the meeting

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.*

OCC advised Powergrid to share the details of bus splitting scheme at Maithon and Durgapur. Powergrid agreed.

ERLDC informed that shutdown will be given for Biharshariff after 400 kV Farakka-Malda D/c line comes into service.

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 31st 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.

NTPC has given the schedule as follows:

- 400/132kV Switchyard package - bid opened. Award by another 2 months and completion time is 15 months for line bays and rest will be completed within 24 months.
- Site levelling – Site package awarded under execution.
- Transformer package – tendering under process and will be awarded in 4 months.

In view of increasing fault level at KHSTPP TCC advised NTPC to expedite the bus splitting.

In 117th OCC, NTPC informed that NIT for Bus segregation has been invited and NIT for Switchyard elements will be done by next month.

NTPC may update.

Deliberation in the meeting

NTPC has given the present status as follows:

- 400/132kV Switchyard package - bid opened. Award by March, 2016.
- Site levelling – Site package awarded, expected to be completed by April, 2016.
- Transformer package – tendering under process and will be awarded by April, 2016.

Further, NTPC informed that the bus splitting scheme would be completed by December, 2018.

B.11.8. Non-availability of Main bay of 400kV Purnea-Biharshariff-I

In 117th OCC, Powergrid informed that the main bay of 400kV Purnea-Biharshariff-I will be in service within a week.

Bay taken in service on 04.02.16

Members may note.

Deliberation in the meeting

Members noted.

B.11.9. 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 117th 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. Dec, 2015 (Severe ROW problem)
b.	LILo of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S	Facing severe ROW problem and hence difficult to fix completion date.
2.	400/220 kV Keonjhar S/S	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	Work order to be issued by February, 2016
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	It will take 1 year for completion.
b.	LILo of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	May, 2016

OPTCL may update the status post 32nd TCC.

Deliberation in the meeting

OPTCL updated that LILo of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S is ready for charging.

B.11.10. 220 kV inter-connecting lines of BSPTCL with 2x200 MVA, 400/132 kV sub-stations at Lakhisarai & Banka

In 30th TCC, BSPTCL informed that at present they are drawing power from 400/132 kV Lakhisarai S/s through LILO of 132 kV Lakhisarai (BSPTCL)-Jamui S/C at Lakhisarai(PG).

In 112th OCC, BSPTCL informed that LILO of 132 kV Lakhisarai (BSPTCL) - Jamui S/C at Lakhisarai(PG) was removed after the charging of 132 kV Lakhisarai (PG)-Lakhisarai (BSPTCL) D/C line which was earlier temporary arrangement for drawing power from 400/132 kV Lakhisarai (PG).

In 116th 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.	132 kV Lakhisarai (PG)-Lakhisarai (BSPTCL) D/C line	Charged
b.	132 kV Lakhisarai-Jamui (BSPTCL) D/C line	Charged on 5th Oct, 2015
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.
c.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-I	Completed
d.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-II	Completed

BSPTCL may update post 32nd TCC.

Deliberation in the meeting

BSPTCL informed that the status remain same.

Item No. B.12: 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).

Members may comply.

Deliberation in the meeting

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.

2. Schedule for 2nd Third Party Protection Audit:

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

1) Jeerat (PG)	Completed on 15 th July 2015
2) Subashgram (PG)	Completed on 16 th July 2015
3) Kolaghat TPS (WBPDCCL)-	Completed on 7 th August 2015
4) Kharagpur (WBSETCL) 400/220kV -	Completed on 7 th August 2015
5) Bidhannagar (WBSETCL) 400 & 220kV	Completed on 8 th September, 2015
6) Durgapur (PG) 400kV S/s	Completed on 10 th September, 2015
7) DSTPS(DVC) 400/220kV	Completed on 9 th September, 2015
8) Mejia (DVC) TPS 400/220kV	Completed on 11 th September, 2015
9) 400/220/132kV Mendhasal (OPTCL)	Completed on 2 nd November, 2015
10) 400/220kV Talcher STPS (NTPC)	Completed on 3 rd November, 2015
11) 765/400kV Angul (PG)	Completed on 4 th November, 2015
12) 400kV JITPL	Completed on 5 th November, 2015
13) 400kV GMR	Completed on 5 th November, 2015

In 115th OCC, Members decided to carry out the audit for 400kV Bakreswar (WBPDCCL), Sagardighi (WBPDCCL), Farakka (NTPC), Malda (PG) & Behrampur(PG) in December/January.

In 116th OCC, it was decided to carry out the audit for 400kV Bakreswar (WBPDCCL), Sagardighi (WBPDCCL), Farakka (NTPC), Malda (PG) & Behrampur(PG) in January, 2016.

In 117th OCC, all members were advised to speed up the audit process with timely publication of audit observations under category A & Category B in ERPC web site.

The same is getting delayed because of unavoidable circumstances.

Audit of 400kV Bakreswar (WBPDCCL), Sagardighi (WBPDCCL), Farakka (NTPC), Malda (PG) & Behrampur(PG) will be taken up in March, 2016

Members may note.

Deliberation in the meeting

It was informed that audit of 400kV Farakka (NTPC), Malda (PG) & Behrampur(PG) were in progress from 22nd Feb, 2016.

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 plant of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

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

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

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

Members may note and comply.

Deliberation in the meeting

Members noted.

Item No. B.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.

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

As per Electricity Act, 2003, CEA has been entrusted with the task of collecting electricity generation data. CEA is monitoring all the existing generating stations with capacity more than 25 MW (Conventional sources only). In recent years there has been appreciable growth in generation from Renewable Energy Sources (RES).

In view of above it was decided to monitor all the generating stations under RES connected to the grid and also to bring out month wise, state wise and sector wise report on RES generation in MU including peak generation from RES.

CEA already requested to nominate Nodal officers at the level of SLDC for the above purpose. However, only few states have responded.

Those SLDCs who have not yet nominated the nodal officers for Energy Generation Data management from RES are requested to furnish the details at following email/Fax:

Email: ceaopmwind@gmail.com with a copy to rishika.engineer@gmail.com and s.sewak@cea.nic.in

Nodal officers from CEA: Mrs. Rishika Sharan, Director, CEA, 011-26732663 and 26102263(Fax), Mobile: 9868021299, Mrs. Sarita Sewak, Dy. Director, 011-26732656

SLDCs may note and comply.

Deliberation in the meeting

Members noted.

Item No. B.16: Sub-committee on “Integration of Renewable Energy Sources”.

In the first meeting of the committee for National Electricity Plan (NEP) held on 1st September, 2015, it was decided to constitute a sub-committee on integration of renewable energy sources with following terms of references:

- a) Issues relating to integration of renewable energy into Power System
- b) Balancing requirement for renewable energy
- c) Flexible Generation

This sub-committee would be headed by Member (Power System), CEA.

In view of above all the constituents are requested to nominate a member, not below the level of Chief Engineer/Director. It is requested that information including address, email and mobile of the nominated member may be sent to CEA, PSP&PA-II Division within 15 days.

In 114th OCC, OCC requested each constituent to nominate a member for the above sub-committee.

Subsequently nominations received from BSPTCL, WBSETCL, OPTCL, OHPC and CESC.

Other constituents may nominate the committee member.

Deliberation in the meeting

It was informed that DVC has also submitted their nomination.

OCC advised all other constituents to nominate the committee member.

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 committee (RPCs), who in turn collect the data from State / UTs and RLDCs. As per the present methodology being adopted for calculation of States /Regional peak demand met, the figure of peak demand met at any time in the month is taken as peak demand met for the month. For all India monthly peak demand met, the sum of five regional peaks met, which may occur at different points of time is taken.

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

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

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

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

For the month of February, 2016 data has been received from BSPTCL, WBSETCL, CESC and OPTCL.

JUSNL may submit the data.

Deliberation in the meeting

The requisite data for February, 2016 has been received from all the constituents.

Item No. B.18: Erroneous recording of data by Interface Meters ---ERLDC

i. Lalmatia(JUVNL)

SEM data received from Lalmatia (JUVNL) of 220 KV Lalmatia(JUVNL) – Farakka (NTPC) line showing erroneous(2/3rd reading as compared to Farakka end) since last six months. The matter is already informed to the official of JUVNL. However the problem still persists.

In 117th OCC, Powergrid informed that SEM has been installed.

However, in 31st CCM , held on 08.02.16, ERLDC informed that the SEM recording still erroneous and the issue is not fully resolved. Powergrid agreed to look into the matter.

Powergrid/JUSNL may update.

Deliberation in the meeting

OCC advised Powergrid and JUSNL to coordinate and resolve the issue.

ii. Replacement/Repair of Defective meter at Mendhasal – SLDC, Odisha

Meter at Mendhasal (GRIDCO) end of Mendhasal (GRIDCO) – Baripada (PG)- I is defective since more than last two months.

SLDC, Odisha vide mail dated 05.01.2016 have requested for early replacement/repair of meter at Mendhasal.

In 117th OCC, Powergrid-Odisha informed that the Meter will be replaced by end of January, 2016.

Powergrid(Odisha) may update.

Deliberation in the meeting

ERLDC informed that Mendhasal data is coming but hanging regularly.

Powergrid informed that the meter will be replaced with in 2 weeks.

iii. Installation of New SEMs at B/C panels at Joda Grid S/s of OPTCL - OPTCL

OTPCl vide mail dated 30.12.2015 have requested for installation of new SEMs at B/C panel at their Joda GSS for 220kV Joda- Ramchandarpur & Joda – Jindal Interstate tie lines.

In 117th OCC, Powergrid informed that required meters are already installed and SEM for bus coupler is not required.

ERLDC informed that the SEM reading at both ends of the 220kV Joda- Ramchandarpur line is not matching and advised OPTCL to check for any tapping in the line. It was also informed that SEM for 220kV Joda- Jindal is not required as it is an intra-state line.

OPTCL agreed.

OPTCL may update.

Deliberation in the meeting

ERLDC informed that SEM reading at Joda end is 15% less than other end which may be checked and corrected.

OPTCL informed that SEM for the bus-coupler at Joda end is also needed.

Powergrid agreed to look into the matter and resolve it.

Item No. B.19: Pollution mapping for Eastern Region

The Pollution Mapping work in ER was started with on-site measurement of ESDD and NSDD. The latest available status as per 117th OCC is as follows:

Utility	Scope	Installed Locations	Number of locations where 1st set of Measurements Completed
JUSNL	67	27	21
BSPTCL	59	52	45
WBSETCL	73	70	43
OPTCL	164	102	102
Sikkim	12	9	6
Powergrid ER 1	99	99	99
Powergrid ER 2	40	40	40
Powergrid Odisha	42	42	42

Members may update.

Deliberation in the meeting

Powergrid ER-2 informed that 2nd set of measurements have been completed for 34 locations. OPTCL informed that 2nd set of measurements are in progress.

Item No. B.20: 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.

OPTCL and DVC informed that they are having the restoration plan and agreed to share with ERLDC/ERPC.

WBSETCL also agreed to prepare their restoration procedure and forward to ERPC/ERLDC.

OCC advised BSPTCL, JUSNL and Sikkim to prepare their restoration plan and procedure in coordination with ERLDC/ERPC.

Constituents may update.

Deliberation in the meeting

ERLDC informed they have not received the restoration plan from any constituent.

OCC advised all the constituents to share their restoration plan with ERPC/ERLDC.

Item No. B.21: 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

Other Constituents/members may nominate the Nodal Officer.

Deliberation in the meeting

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

OCC advised all other constituents to nominate the coordinator at the earliest.

Item No. B.22: Dynamic data of Generator Models required in PSSE for Simulations -- ERLDC

Till date data received only from NTPC Kahalgaon & Barh, NHPC Teesta-V, GMR, CESC and Vedanta Ltd.

Other Generators may ensure submitting the data.

Deliberation in the meeting

It was informed that data has been received from NTPC Farakka, WBPCL & JITPL.

OCC advised all other generators to send the requisite information to ERLDC.

Item No. B.23: Furnishing of data for preparation of reports

ERLDC Control room collects data on daily basis during night hours for computation of Inter-regional and Transnational energy transfers including maximum/minimum flows for incorporation in the daily reports. However, certain difficulties have been faced at times in collection of data w.r.t exchange of power with WR. As System Operators are severely time constrained, it is essential that all such data are made available through a single window vide mail within the shortest possible time after completion of 24:00hrs of the day. As such data furnishing is being handled by CPCC, ER-II, Powergrid(ERTS-II) may kindly ensure that such data is available to ERLDC control Room without any delay.

The issue has been Resolved.

Members may note.

Deliberation in the meeting

Members noted.

Item No. B.24: Scheduling of Un-requisitioned Surplus (URS) power from ISGS – ERLDC

CERC vide order Dtd.05/10/15 in petitionNo.310/MP/2014 had directed the following in modification to the order dated 11.1.2010 in Petition No.134/2009(regarding scheduling of URS from ISGS):

“(a) All generating companies whose tariff is determined by this Commission under section 62 or adopted by this Commission under section 63 of the Act shall be permitted to revise their schedule for URS power from one beneficiary to another beneficiary of the same power station in terms of Regulation 6.5.18 of the Grid Code within 4 time blocks. Consent of the original beneficiary and the new beneficiary shall be submitted by the ISGS intending to avail revision of schedule to the concerned RLDC by mail.

(b) If the original beneficiary requests back its share of power, then its schedule and the schedule of beneficiary who had availed URS power shall be revised in 4 time blocks again. Concerned ISGS shall submit the request of the original beneficiary to recall the power to concerned RLDC by mail.

(c) The revision of schedules shall be permitted under Regulation 6.5.18 in respect of URS power subject to availability of transmission corridor and in case of congestion, RLDCs shall be at liberty to revise the schedule in terms of Regulation 6.5.20 of the Grid Code.

(d) Revision of schedule for sale of URS power to third parties shall not be permitted. Concerned ISGS may seek short term open access for sale of URS power to third parties.

(e) NLDC and RLDCs are directed to implement the above directions. In case any difficulty is experienced, NLDC/RLDCs/ISGSs/Beneficiaries are granted liberty to bring such difficulty to the notice of the Commission.”

Subsequently, CERC vide ROP to Petition No.16/SM/2015, Dtd.05/01/16 in the matter of Difficulty encountered in implementation of the Commission's order dated 5.10.2015 in Petition No. 310/MP/2014 regarding scheduling of unscheduled surplus power from the inter-State generating stations directed the following:

“Where both the generating station and its beneficiaries (surrendering and requesting beneficiaries) give their standing consents in writing to RLDC that the decision of the concerned RLDC will be binding on them with regard to scheduling and dispatch of URS power, the concerned RLDC shall schedule such URS power to the requesting beneficiaries in relative proportion to the quantum requested by them. In other cases, RLDCs shall schedule URS power on the basis of the consents submitted by the generating stations in terms of the order dated 5.10.2015.”

Considering all of above it is hereby intimated that in future for scheduling of URS power, the concerned ISGS would need to furnish the consent of the surrendering beneficiaries alongwith their consent in case the beneficiaries of the ISGS do not submit the standing consents i.r.o above. Also, in case of surrender by more than one beneficiary wherein the URS pool power cannot be demarcated source-wise in terms of the surrendering beneficiary, consents of all the beneficiaries who have surrendered at that instant need to be obtained by the concerned ISGS and furnished to RLDC alongwith their own consent. However, in case standing consent is furnished by all the beneficiaries of the concerned ISGS, repeated consent every time need not be taken. Beneficiaries can give their standing consents stating vide letter/mail stating that the concerned beneficiary gives their unconditional consent for such revision of URS power by RLDCs as stated above and that they indemnify RLDCs/NLDC in all respects i.r.o the same.

In 117th OCC, ERLDC informed that now onwards clearance from surrendering beneficiary is also required to be submitted for scheduling of URS power from ISGS. This procedure will be implemented from 1st February, 2016.

It was decided that all beneficiaries of ISGS will explore feasibility of conveying their standing consent for allocation of their surrendered power from ISGS.

ERLDC may update.

Deliberation in the meeting

ERLDC explained that instead of giving consent each time for allocation of URS power, a standing consent may be given to Generators.

NTPC informed that the standing consent for allocation of surrendered power from NTPC stations may be sent to GM(OS), Patna (by e-mail: rccpatna@ntpc.co.in)

OCC advised all the respective constituents to submit their standing consent by 29th February, 2016 so that w.e.f. 1st March, 2016, ERLDC can schedule the URS power as per CERC directions.

Constituents agreed.

Item No. B.25: Demand and Generation Projection of ER constituents for POC

NLDC vide email dated 10/2/16 has sought confirmation for ER constituents on the assumed demand/generation for calculation of POC charges and losses for 2016-17 Q1.

Data as submitted by DVC, GRIDCO, NTPC & NHPC are appended at **Annexure-B.25**.

Members may ratify.

Deliberation in the meeting

OCC advised all the constituents to verify their respective data and send the confirmation to NLDC within a week. Also, if there is any deviation in the given figures, the same may be communicated to NLDC within a week.

Constituents agreed.

Item No. B.26: Furnishing Data to CTU for TTC/ATC estimation in planning horizon

CTU vide letter dated 8/1/16 requested all state's to furnish their respective bus-wise projected demands for 2017-18 and 2018-19 and also intra-state transmission system data (220KV and above) to work out ATC/TTC in planning horizon. A reminder in this regard was further sent by CTU to all states on 4/2/16.

All states are requested to furnish the information sought by CTU, with a copy to ERLDC.

Members may note for compliance.

Deliberation in the meeting

OCC advised all the ER utilities to furnish the requisite data in respect of their respective control areas. Constituents agreed.

Item No. B.27: Details of HTLS conductors

The following lines are having HTLS conductor:

- 1) 400KV Purnea-Blnaguri-1,2
- 2) 400KV Sagardigi-Bahrampur D/C
- 3) 132KV Malda-Malda D/C
- 4) 220KV New-Melli-Rangpo D/C

Owner of the above lines may please specify the specific names of conductor used and current carrying capacity at different ambient temperature and conductor temperature.

Respective members may update.

Deliberation in the meeting

WBSETCL and Powergrid agreed to submit the details to ERPC/ERLDC.

Item No. B.28: Auto-Reclose (A/R) scheme of 400kV Jeypore- Gajuwaka D/C line

In the past many incidents of overvoltage tripping of 400kV lines emanating from Jeypore S/Stn had occurred. On detail examination, it was observed that most of these over voltage trippings were associated with SLG faults in 400kV Jeypore-Gajuwaka line.

In 33rd PCC meeting held on 21-07-15, it was clarified by PGCIL that for 400kV Jeypore-Gajuwaka line, 3-ph tripping and auto-reclosing scheme has been implemented at Gajuwaka end, whereas, at Jeypore 1-ph tripping and auto-reclosing would occur for any SLG fault (in Z-I).

PGCIL further explained that 3-phase tripping scheme had been adopted at Gajuwaka end on advice of OEM of HVDC, for avoiding commutation failure of the converter on AC side voltage unbalance & 3rd harmonics, which might occur with implementation of 1-ph tripping scheme.

Protection members of ERPC felt that 3-ph tripping scheme at Gajuwaka end and 1-ph tripping scheme at Jeypore end may trigger high voltage condition at Jeypore end with the two healthy phases of the 220km long line getting idle-charged during the dead time. PCC therefore advised PGCIL to consider implementing 3-ph tripping at Jeypore end also.

Powergrid agreed to implement 3-ph auto-reclosure for 400kV Jeypore- Gajuwaka D/C line. However, they requested ERLDC to carry out the study.

But since it's a CTU system, OCC requested PGCIL Odisha to implement the same auto-reclosure feature at both ends with immediate effect after doing proper study at their end.

The decision of OCC is not yet complied.

The issue was also placed before 32nd TCC.

Powergrid may update post 32nd TCC update.

Deliberation in the meeting

Powergrid informed that 3-ph auto-reclosure for 400kV Jeypore- Gajuwaka D/C line at Jeypore end has been implemented.

Item No. B.29: 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 2015-16 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, 2015	<i>Done on 16/07/15</i>	Last Week of January 2016	March, 2016
2	Maithon	1 st week of June 2015		1 st Week of October 2015	<i>Done on 23-12-2015</i>
3	Rengali	2 nd week of June 2015	<i>Done on 13/10/15</i>	Last week of November 2015	<i>Done on 09.02.2016</i>
4	U. Indravati	3 rd week of June 2015	<i>Done on 16/07/15</i>	2 nd week of February 2016	March, 2016
5	Subarnarekha	2 nd week of October 2015	<i>Done on 09/06/15</i>	1 st week of January 2016	After getting water
6	Balimela	1 st week of November 2015		1 st week of March 2016	March, 2016
7	Teesta-V	2 nd week of November 2015		Last week of February 2016	2nd Half Feb,2016
8	Chuzachen	1 st week of May, 2015		2 nd week of January, 2016	2nd Half Feb,2016
9	Burla	Last week of July15	Jan,2016	Last week of February, 2016	

As intimated by SLDC, Bhubaneshwar vide mail dated 09.02.2016, black start operation of unit-3 of Rengali P.H. has been successfully completed on 09.02.2016 at 11:50Hrs. The Unit-3 of Rengali P.H. was synchronized to Bus-A (Dead Bus) at 11:30Hrs. 200kV Rengali P.H.- Rengali S/Y Ckt.-II was extended from Bus-A of Rengali P.H. end at 11:34Hrs. One 20MVA 220/33kV Power Transformer load and Barkote area load (220kV Rengali S/Y- Barkote Ckt.) was put on Unit-3 of Rengali P.H. forming the island of about 18 MW. The Bus coupler breaker at Rengali

P.H. was closed at 11:50 Hrs and the island was synchronized with the Grid System. The black start operation of unit-3 of Rengali P.H. was completed successfully.

Members may update.

Deliberation in the meeting

Members updated the schedule.

ii) Mock Black Start exercise for Chuzachen and Teesta

As per decision taken in the previous OCC meetings, mock blackstart exercise of Teesta and Chuzachen with load segregation in Sikkim and North Bengal (for running in islanded mode) has been planned. Accordingly, ERLDC would be presenting the network for finalization of the load segregation and the procedure of switching actions to be adopted sequentially for successful islanding and re-synchronization of the islands. Sikkim and SLDC, WBSETCL may confirm/suggest to finalize the load segregation and the switching actions. Also, nodal persons may be identified to ensure that the operators are well versed with the procedure/switching actions to be performed. The dates may also be finalized.

In 117th OCC, ERLDC explained the procedure of mock black start procedure of Teesta V and Chuzachen.

It was agreed to carry out the black start exercise of Teesta V and Chuzachen in February, 2016.

Sikkim, WBSETCL, NHPC and Chuzachen may confirm.

Deliberation in the meeting

Members agreed to carry out the black start exercise of Teesta V and Chuzachen in last week of February, 2016 or first week of March, 2016.

iii) 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.30: New SCADA system

In 117th OCC, ERLDC informed that they had shifted to new SCADA system from January, 2016. There will be some smoothing problem and the system will be stabilized within 1-2 months.

ERLDC may update.

Deliberation in the meeting

ERLDC informed that the new SCADA is running successfully.

Members noted.

Item No. B.31: Restricted Governor Mode of Operation

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

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

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

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

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

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

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

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

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

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

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

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

In 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).

Members may update.

Deliberation in the meeting

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).

Item No. B.32: Reactive Power performance of Generators and GT tap position optimization

Maximum and minimum voltage was observed (data taken from SCADA)

Generating stations have been monitored for sample dates in the month of December 15:

Power Plant	Max and Min Voltage observed for Jan. 16 (KV)	Date for monitoring (January 16)
Farakka STPS	425,405	11,12
Kahalgaoon STPS	423,407	11,12
Talcher STPS	413,401	14
Teesta	411,403	13
Bakreshwar TPS	409,386	14
Kolaghat TPS	421,394	12
Sagardighi TPS	Data not available	---
MPL	423,409	14
Mejia-B	425,415	7
DSTPS	427,416	15
Adhunik TPS	427,407	15
Sterlite	428,419	9

ERLDC may update.

Deliberation in the meeting

It was informed that the reactive performance of all the generators are satisfactory except Adhunik TPS.

a) Schedule for reactive capability tests

The following was status of regarding reactive capability testing:

- Adhunik TPS(both units) –Yet to be confirmed by Adhunik
- DSTPS (Unit#2 only pending) – Not yet done
- Koderma TPS Unit#1
- JITPL(both units) – Procedure given. Not yet done

Members may update.

Deliberation in the meeting

Members noted.

PART C:: OPERATIONAL PLANNING

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

Members may finalize the Shutdown proposals of the generating stations for the month of March' 16 as 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 Mar, 2016 is given at **Annexure-C.1**.*

A. Shutdown of 400KV Farakka-Malda D/C line for HTLS re-conductoring

In 116th OCC, Powergrid was advised to bring the 400kV Farakka-Malda D/C in service positively by 20th January 2016.

In 117th OCC, Powergrid informed that due to river/railway/line crossings, ROW problems and other unfortunate circumstances, it may not be possible to complete the re-conductoring work by the end of January as committed earlier. Therefore the S/D may be allowed upto end of February, 2016 for completion of subject work in totality.

Further, OCC decided to convene a special meeting to review the progress of HTLS re-conductoring work of 400kV Farakka-Malda and for further course of action.

Subsequently, in a special review meeting held on 01.02.2016, the status as on 31.01.2016 was reviewed which is---

Ckt-I: 26.334 ckt km
Ckt-II: 30.992 ckt km
Total balance: 25.674 km

After detailed deliberation, it was agreed that Powergrid will put in best efforts to bring the 400 kV Farakka-Malda D/C line by 15.02.2016 (The minutes of the said meeting is placed at **Annexure-C.1A**).

The issue was also placed before 32nd TCC.

Powergrid may update post 32nd TCC.

Deliberation in the meeting

Powergrid informed that the work is going on full swing and it may be reviewed by ERPC/ERLDC/WBSETCL at the end of February, 2016.

OCC requested Powergrid to return the line at the earliest in view of ensuing examinations and election at West Bengal.

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

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of March'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 March, 2016 after incorporating constituents' observations is given at **Annexure-C.2**.*

Item no. C.3: Prolonged outage of Power System elements in Eastern Region**(i) Generating units:**

Generating Station	UNIT NO	CAP(MW)	REASONS FOR OUTAGE	OUTAGE DATE
KAHALGAON	2	210	OVER HAULING	18-Jan-16
STERLITE	3	600	OUTAGE FOR LOW	15-Jan-16
STERLITE	2	600	VALVE PROBLEM	04-02-16
MPL	1	525	HIGH DM WATER	11-Feb-16
MEJIA	2	210	STATOR EARTH	5-Dec-15
MEJIA	3	210	GT DISSOLVED GAS	31-Oct-15
MEJIA	4	210	DUE TO LOW	10-Dec-15
DSTPS	2	500	COAL SHORTAGE	16-Sep-15
KODERMA	1	500	ASH POND PROBLEM	11-Nov-14
BOKARO B	1	210	TUBE LEAKGE	26-Jan-16
DPL	7	300	COAL SHORTAGE	Running
KOLAGHAT	4	210	BOILER TUBE	5-Jan-16
WARIA	3	140	TUBE LEAKGE	19-Oct-15
WARIA	4	210	TUBE LEAKGE	5-Jan-16
MUZAFFARPUR	2	110	BOILER TUBE	3-Feb-16
BOKARO B	3	210	TUBE LEAKGE	5-Feb-16
IB THERMAL	1	210	OVERHAULING	16-Jan-16
CHANDRAPURA	7	250	ROTOR EARTH FAULT	7-Jan-16

(ii) Transmission elements

Name of the Line/Element	Outage	Reason
400 KV FARAKKA - MALDA I,II	04.12.15	LINE RECONDUCTORING

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	Raghunathpur Unit#1	2x600MW	
2	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	400 kV Vedanta-Meramandali D/C	Charged on 6 th Jan, 16
11	220 kV TLDP-IV – NJP ckt-2	
12	220 kV Bidhansai-Cuttack D/C	
13	220 kV Girdih-Koderma D/C	

Members may update.

Deliberation in the meeting

Members noted.

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

System frequency touched a maximum of 50.39Hz at 18:01Hrs of 26/01/16 and a minimum of 49.70Hz at 09:13Hrs of 16/01/16. 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 January'16.

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.3: Disturbance reporting to CERC

ERLDC has to report the energy loss / energy not served and restoration time besides other information to CERC. Constituents are therefore requested to specifically mention the energy not served and time at which 80% of the load is restored following any disturbance, in the preliminary report to be sent to ERLDC.

Members may note for compliance.

Deliberation in the meeting

ERLDC informed that as per direction of CERC, the grid disturbances are required to be reported along with the restoration time and amount of energy not served during the disturbances.

OCC advised all the constituents to specifically mention the energy loss (in MU) during the grid disturbance and the restoration time for at least 80% of the load in their grid disturbance report.

Constituents agreed.

Item no. D.4: Grid incidences during the month of January, 2016

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	BSPTCL (Madhepura)	02.01.16, 06:01 hrs.	0	450	Total power failure occurred at North Bihar and some part of Nepal due to tripping of all 220/132kV, 100 MVA ATR-I, II & III at Madhepura on operation of REF protection from 220kV side.	GD-1
2	OPTCL (TTPS)	19.01.16, 10:50hrs	460	0	All the 220 & 132kV feeders emanating from 220kV TTPS S/s along with all the running unit of TTPS tripped while opening of Bus-II side isolator of 220kV TTPS- Joda –I (idle charged from TTPS) at TTPS end	GD-1
3	Mejia-B (DVC)	31.01.16, 03:27 hrs	769 MW	0	All the 400kV lines emanating from Mejia- B S/s along with running unit of Mejia-B (U#7 & 8) tripped due to initiation of LBB protection for both main Bus-I & main Bus-II.	GD-1

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.5: Any other items:

1) Commissioning of Unit # V (660 MW) of Barh STPS, Stage-II

M/s NTPC Ltd vide letter dated 17.02.2016 declared the Unit-V (660 MW) of Barh STPS Stage-II on Commercial Operation with effective from 00:00 hours of 18.02.2016 and had submitted the certificate in accordance with Regulation 4 (1) (iii) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014.

Deliberation in the meeting

On query it was informed that Trial Operation for COD of Barh Unit-V (660 MW) was started from 6th Feb, 2016 16:00 Hours and successfully ended at 9th Feb, 2016 16:00 Hours.

OCC accepted the COD of Barh Unit-V (660 MW) w.e.f. 00:00 Hrs of 18th February, 2016.

2) 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.

Deliberation in the meeting

It was informed that Odisha SLDC, WBSLDC and DVC are doing the TTC/ATC calculations on their own but the same is not being uploaded in their website.

SLDC, Bihar is also computing their TTC/ATC in-consultation with ERLDC.

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.

3) 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.

Deliberation in the meeting

OCC advised all the constituents to comply.

Meeting ended with vote of thanks to the chair.

Participants in 118th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 26.02.2016 (Friday)

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

Participants in 118th OCC Meeting of ERPC

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Date: 26.02.2016 (Friday)

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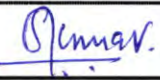


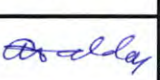

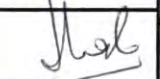
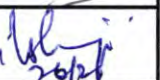
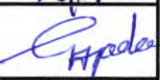
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Participants in 118th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 26.02.2016 (Friday)

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**No. CEA/GO&D/OPM/TPR/2015/
Government of India
Ministry of Power
Central Electricity Authority
OPM Division**

**Sewa Bhavan, R.K. Puram
New Delhi - 110066
Dated: 28.10.2015**

Sub. : Under performance of Thermal Power Stations of Eastern Region-reg.

Reference is invited to the Monthly Generation Report (18 column) for the month of September, 2015 published by CEA, which indicates the dismal performance of the Thermal Power Generating Stations of the country as a whole and Eastern Region in particular. The analysis of data and subsequent examination shows that the thermal power stations of Eastern Region are running on low PLF. The list of such Thermal Power Stations running under PLF less than the national average PLF of 60.90% may kindly be seen at Annexure. Looking into the Annexure it may be concluded that efforts could have been initiated for improvement of the operating parameters of these stations viz a viz PLF, Heat Rate, Secondary Fuel Oil consumption and Aux Power consumption as well as early rectification of the outages.

It is, therefore, suggested that a meeting may be called by ERPC at Kolkata of all the stake holders to discuss the reasons and possible remedies of the same. A convenient date and timing of such meeting may kindly be intimated to this division for attending the meeting. The agenda of the meeting would be as below:

The utilities may come out with a concrete proposal/action plan for the entire financial year for improvement of PLF, Heat Rate, secondary fuel oil and auxiliary power consumption of their Thermal Power Stations.

Encl. As above.

**(Chandra Shekhar)
Chief Engineer (OPM)**

**Member Secretary, Eastern Regional Power Committee (ERPC), Kolkata
No.CEA/GO&D/OPM/Misc./2015/ dated 28.10.2015**

Central Electricity Authority
Operation Performance Monitoring Division

List of Power Stations of Eastern Region operating below the National Average PLF of 60.90

Name of the Station	Unit No.	Capacity	State	Utility	Date of Stabilization	Fuel	Comm PLF
PATRATU TPS	6	90	JHARKHAND	JSEB	17/12/1971	COAL	16.2
PATRATU TPS	10	110	JHARKHAND	JSEB	01/09/1986	COAL	56.62
MUZAFFARPUR TPS	1	110	BIHAR	NTPC Ltd.	01/03/1986	COAL	43.74
MUZAFFARPUR TPS	2	110	BIHAR	NTPC Ltd.	01/04/1987	COAL	36.81
TENUGHAT TPS	1	210	JHARKHAND	TVNL	01/04/1997	COAL	58.26
MAHADEV PRASAD STPP	1	270	JHARKHAND	ADHUNIK	01/02/2013	COAL	54.49
MAHADEV PRASAD STPP	2	270	JHARKHAND	ADHUNIK	01/06/2013	COAL	33.29
CHANDRAPURA(DVC) TPS	1	130	JHARKHAND	DVC	30/09/1964	COAL	56.94
DURGAPUR TPS	3	130	WEST BENGAL	DVC	31/05/1967	COAL	52.87
DURGAPUR TPS	4	210	WEST BENGAL	DVC	01/12/1982	COAL	17.94
BOKARO `B` TPS	1	210	JHARKHAND	DVC	01/05/1987	COAL	27.56
BOKARO `B` TPS	3	210	JHARKHAND	DVC	01/08/1994	COAL	17.61
MEJIA TPS	1	210	WEST BENGAL	DVC	01/04/1998	COAL	56.78
MEJIA TPS	2	210	WEST BENGAL	DVC	01/11/1999	COAL	45.42

MEJIA TPS	3	210	WEST BENGAL	DVC	01/06/2000	COAL	40.48
MEJIA TPS	4	210	WEST BENGAL	DVC	01/05/2005	COAL	3.87
MEJIA TPS	5	250	WEST BENGAL	DVC	01/10/2007	COAL	45.38
KODARMA TPP	1	500	JHARKHAND	DVC	01/08/2013	COAL	0
DURGAPUR STEEL TPS	2	500	WEST BENGAL	DVC	01/04/2013	COAL	32.52
STERLITE TPP	1	600	ORISSA	SEL	01/08/2011	COAL	25.1
STERLITE TPP	3	600	ORISSA	SEL	01/09/2011	COAL	30.61
STERLITE TPP	4	600	ORISSA	SEL	01/05/2012	COAL	34.72
KAMALANGA TPS	1	350	ORISSA	GMR ENERG	01/05/2013	COAL	59.42
DERANG TPP	1	600	ORISSA	JITPL	06/06/2014	COAL	59.48
DERANG TPP	2	600	ORISSA	JITPL	12/02/2015	COAL	45.97
BANDEL TPS	1	60	WEST BENGAL	WBPDC	30/11/1965	COAL	26.22
BANDEL TPS	2	60	WEST BENGAL	WBPDC	31/05/1966	COAL	37.31
BANDEL TPS	3	60	WEST BENGAL	WBPDC	30/11/1965	COAL	35.47
BANDEL TPS	4	60	WEST BENGAL	WBPDC	31/05/1967	COAL	39.26
BANDEL TPS	5	210	WEST BENGAL	WBPDC	01/04/1983	COAL	0.13

KOLAGHAT TPS	1	210	WEST BENGAL	WBPDC	01/03/1991	COAL	42.03
KOLAGHAT TPS	2	210	WEST BENGAL	WBPDC	01/10/1986	COAL	50.38
KOLAGHAT TPS	3	210	WEST BENGAL	WBPDC	01/04/1985	COAL	46.12
KOLAGHAT TPS	4	210	WEST BENGAL	WBPDC	01/10/1995	COAL	48.04
BAKRESWAR TPS	4	210	WEST BENGAL	WBPDC	01/07/2008	COAL	56.44
SAGARDIGHI TPS	1	300	WEST BENGAL	WBPDC	01/07/2008	COAL	56.99
SAGARDIGHI TPS	2	300	WEST BENGAL	WBPDC	01/02/2009	COAL	33.34
D.P.L. TPS	7	300	WEST BENGAL	DPL	01/06/2008	COAL	47.76
TITAGARH TPS	3	60	WEST BENGAL	CESC	01/08/1984	COAL	38.27
TITAGARH TPS	4	60	WEST BENGAL	CESC	01/08/1985	COAL	40.98
HALDIA TPP	2	300	WEST BENGAL	HEL	21/02/2015	COAL	46.73
FARAKKA STPS	4	500	WEST BENGAL	NTPC Ltd.	01/12/1996	COAL	56.69
FARAKKA STPS	6	500	WEST BENGAL	NTPC Ltd.	01/05/2012	COAL	58.17

Annexure- B.5

UFR installed in different GSS of BSPTCL ,Patna as listed below is in service up to 24th February 2016.

SL. No.	NAME OF GRID	CONNECTED 33 KV FEEDER	LOAD IN MW	SETTING
1.	132/33 KV Gaighat grid	Saidpur	20	48.6
		City Feeder	22	48.6
2.	132/33 KV Mithapur grid	PESU V	18	48.8
		PESU II & IV	32	48.8
3.	220/132/33 KV Fatuha grid	Katra	14	48.8
		Meena Bazar	24	48.8
		Fatuha	22	49.0
		Dina Iron	12	49.0
4.	132/33 KV Digha grid	Digha - I	18	48.6
		Digha - II	7	48.6
		Patliputra	20	49.0
		Excise colony	20	49.2
5.	132/33 KV Bari Pahari (Bihar Sharif)P	Bari Pahari I	11	49.2
		Bari Pahari II	5.5	49.2
		Sohsarai	10	49.2
		Ramchandrapur	15	48.6
		Noorsarai	10	49.2
		Asthama	5	49.2
6.	132/33 KV Harnaut	Line II Feeder (Charan)	1.5	49.0
		Kalyanbigha	0.5	48.6
		Harnaut	5.0	49.2
7	132/33 KV Ekangarsarai	Parwalpur	3	49.2
		Islampur	6	49.0
		Ekangarsarai	5	49.0
		Hilsa	4	49.0
8	132/33 KV Katra	Pahari	18	48.6
		Sabalpur	5	48.8
		Karmalichak	8	48.8
		Ashoknagar	14	48.8
		Kankarbag	18	48.6
9	220/132/33 KV Sampatchak	Bahadurpur	14	49.0
		Sampatchak	7	49.0
		Kuda Nawada	10	49.0
10	132/33 KV Purnea	Maranga	12	49.2
		Madhubani	10	49.2
11	132/33 KV Nalanda	Nalanda	6	49.2
12	132/33 KV Rajgir	Raytar	8	49.2

Sl.No.	Frequency	Total Load
1.	49.2	105.5
2.	49.0	101.5
3.	48.8	115.0
4.	48.6	118.5



JHARKHAND URJA SANCHARN NIGAM LIMITED

Office of the
Electrical Superintending Engineer, State Load Dispatch Centre,
Kusai Colony, Doranda, Ranchi

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

Letter No. 63, SLDC, Ranchi,

Dated, the 16-02-2016

From,

Er. Shailesh Prakash,
Elect. Supt. Engineer
SLDC, Ranchi.

To,

Member Secretary, ERPC,
14 Golf Club Road,
Tollygunj, Kolkata -700033

Sub: Latest Status of Under Frequency Relay of JUSNL for the month of January' 2016.

Sir

With reference to the subject mentioned above the latest status of Under Frequency Relay for the month of January' 2016 is hereunder:-

Stage	G/S/S	33 KV Feeder	Remarks
Stage – I 49.2 Hz	Kamdara	Kamdara	In Service
	Gumla	Gumla	In Service
	Deoghar	Sarath	In Service
	Lohardaga	Lohardaga	In Service
	Jamtara	Jamtara	In Service
Stage – II 49.0 Hz	Garhwa	Ranka	In Service
	Garhwa	Bhawnathpur	In Service
	Deoghar	Baidyanathpur	In Service
	Lohardaga	Tico	In Service
	Latehar	Manika	In Service
Stage – III 48.8 Hz	Hatia	Brambay	In Service
	Adityapur	Adityapur I	Not In Service
	Japla	Japla	In Service
Stage – IV 48.6 Hz	Namkum	Kokar (Rural)	In Service
	Hatia	Argora	In Service
	Hatia	Dhurwa	In Service
	Hatia	Harmu	In Service
	Adityapur	Adityapur II	Not In Service

This is for your kind information & necessary action.

Yours faithfully

(Shailesh Prakash)
ESE, SLDC, Ranchi

Status of UFR at Sub-stations under Transmission Dept. for the month January '16

Sl No	Name of sub-station	Feeder Details	CD (MVA)	In-service	Test performed	Results/Remarks
1	Burdwan	WBSEB Burdwan	48	Yes	Yes	UFR in service.
2	Durgapur	Graphite India+ Jai Balaji Industries+ Jai Balaji Sponge	74	No	Yes	UFR out of service to avoid unwanted tripping.
3	Durgapur	SRB Steel+ Brahma Alloy+ Venky Steel+ VSP+ Shri Gopal Hi-tech	67	No	Commissioning tests by CTC on 24.01.2014	UFR out of service since 25.01.2014 after repeated tripping of 12 nos. of 33KV consumers.
4	Kalyaneswari	BMA+ Impex+ Hira Concast+ MPL	47	Yes	Yes	UFR in service.
5	Kumardhubi	JSEB Sanjay Chowk+ Mugma+ DPSCO Dishergarh	60	Yes	Yes	UFR in service.
6	Putki	JSEB Godhar+ Bhuli+ JSEB Ganeshpur+ JSEB Katras+ JSEB Katras Sijua	93.5	Yes	Yes	UFR in service.
7	Patherdih	JSEB Govindpur + JSEB Mukunda + JSEB Digwadi	70	Yes	Yes	UFR in service.
8	Ramgarh	JSEB Ramgarh	80	Yes	Yes	UFR in service.
9	Hazaribagh	JSEB Hazaribagh	50	No	No	Not Installed yet.
10	Giridih	JSEB Giridih	55	Yes	Yes	UFR in service.
11	Koderma	JSEB Koderma	38	Yes	Yes	UFR in service.

Total load relieved 682.5 MVA



159

ODISHA POWER TRANSMISSION CORPORATION LIMITED
(A Government of Odisha Undertaking)
CIN-U40102OR2004SGC007553
Regd. Office: Janapath, Bhoinagar, Bhubaneswar-751022
O/O the CGM (O&M), FAX: (0674) - 2542932

NO:TW-GM(O&M)-O/O CGM(O&M) 04/2014

218

Dated 16.02.2016

To

The Member Secretary,
ERPC, 14 Golf Club Road,
Tollygunge, Kolkata-700 033

Sub: Monthly Certification for healthiness of UFR relays for the month of
JANUARY'2016.

Sir,

With reference to the above, it is to certify that all the UFR relays
installed in 33kV & 132kV system of OPTCL were checked in the month of
JANUARY'2016 and are found to be working normal.

Yours faithfully


Chief General Manager(O&M)

CC to

1. Sr.GM, (PS), SLDC, Bhubaneswar.

West Bengal State Electricity Transmission Company Limited

(A Government of West Bengal Enterprise)

CIN: U40109WB2007SGC113474; Website: www.wbsetcl.in; Phone / Fax No. (033) 2334 9020

Registered Office : Vidyut Bhawan, Block-DJ, Sector-II, Bidhannagar, Kolkata - 700 091



OFFICE OF THE CHIEF ENGINEER STATE LOAD DESPATCH CENTRE

Memo No. SLDC/HOW/ 18/2060.

Date:- 17.02.2015

To
The Member-Secretary ,
Eastern Regional Power Committee,
14, Golf Club Road,
Tollygunge,
Kolkata-700 033.

Sub: Status of UFRs installed at WBSETCL sub-stations.

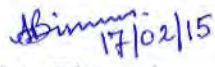
Dear Sir,

As per deliberation in the 105th OCC meeting of ERPC held on 22.01.15, report on UFRs enunciation, PT fuse and quantum of load in the month of January, 2015 connected to the UFR feeders at different WBSETCL sub-stations is furnished herewith for your record.

Thanking you.

Enclo: 1) 5 Nos.

Yours faithfully,


(A. Biswas)
Chief Engineer, SLDC
WBSETCL

STAGE-I

U/F RELAY SETTING

49.2 HZ

The name of the feeders of WBSETCL under 1st stage U/F relay

Sl. No.	Name of Sub-Station	Name of the feeders with load quantum to be tripped by U/F relay			CERTIFICATES	REMARKS
		Name of feeders	EVENING	MORNING		
			MW	MW		
1	NBU 132 KV	a) 33 KV TCF	5.3	2.4	D.C. Supply ON. PT fuse O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Kharibari	8.4	4.2		
		c) 33 KV Ujanu	10.0	4.7		
		d) 11 KV Teesta	1.6	0.7		
		e) 11 KV Bagdogra	2.4	1.2		
		f) 11 KV Phansidewa #2	0.4	0.2		
2	ULUBERIA 132 KV	a) 33 KV UIGC - 1	6.3	3.2	D.C. Supply ON. PT fuse O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Banitabla	13.7	5.3		
		c) 33 KV Foodpark	15.8	8.4		
		d) 33 KV Amta	15.8	1.6		
		e) 33 KV UIGC - 2	10.5	5.8		
3	KALYANI 132 KV	a) 33 KV WBIDC-I	2.1	0.8	D.C. Supply ON. PT fuse O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV WBIDC-II	4.5	1.6		
		c) 33 KV University - I	10.5	4.2		
		d) 33 KV University - II	6.3	2.6		
		f) 6.3 MVA Tr#1	3.7	1.6		
		g) 5 MVA Tr#2	3.2	1.1		
		h) 5 MVA Tr#3	2.4	1.1		
4	DHARAMPUR 132 KV	a) 33 KV Panpur	6.8	2.5	D.C. Supply ON. PT fuse O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Kanchrapara	11.3	2.6		
		c) 33 KV Gouripur	10.8	4.2		
		d) 33 KV Cord Road - 1	6.1	2.1		
		e) 33 KV Cord Road - 2	8.2	3.2		
		f) 33 KV Jeerat	8.7	2.1		
5	GANGARAMPUR 132 KV	a) 33 KV Buniadpur-1	10.0	1.6	D.C. Supply ON. PT fuse O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Buniadpur-2	10.0	0.8		
		c) 33 KV Salas	10.9	3.8		
		d) 33 KV Rampur	4.7	1.1		
		e) 2X6.3 MVA (33/11) Tr#1,	8.7	2.6		
6	CESC		65.0			*
TOTAL			284.1	77.1		

* To be confirmed by M/s. CESC

Atal das
17.02.15

STAGE-2

U/F RELAY SETTING

49.0 HZ

The name of the feeders of WBSETCL under 2nd stage U/F relay

Sl. No.	Name of Sub-Station	Name of the feeders with load quantum to be			CERTIFICATES	REMARKS
		Name of feeders	EVENING MW	MORNING MW		
1	DOMJUR 220 KV	a) 33 KV Jangalpur #1	16.8	5.5	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33KV Jaladhulaguri#1	16.6	4.2		
		c) 33 KV Munshirhat	9.5	1.8		
2	BAGNAN 231 KV	a) 33 KV Bagnan #1	9.5	2.1	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Bagnan #2	NIL	NIL		
		c) 33 KV Amta	15.8	2.1		
		d) 33KV Mugkalyan#1&2	12.6	3.2		
3	MALDA 132 KV	a) 33 KV Narayanpur	12.6	7.6	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Habibpur	16.3	10.2		
		c) 33KV Rabindra Bhavan	10.0	5.2		
		d) 33 KV Manikchak	7.4	3.7		
		e) 33 KV KPS	13.2	5.8		
		f) 33 KV Kaliachak	13.6	7.2		
		g) 33 KV Gazole	10.5	6.8		
		h) 1X6.3 MVA Tr#1	10.3	1.3		
		i) 1X5 MVA Tr#2	4.5	1.3		
4	NEW BISHNUPUR 220 KV	a) 33 KV Sonamukhi	7.1	5.5	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Rohit	8.2	6.3		
		c) 33 KV Patrashayar	13.9	12.9		
5	BORJORA 132 KV	a) 33 KV Borjora-II	5.9	3.7	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 2X6.3 MVA Tr#1&2	2.1	1.3		
6	CESC		90			*
TOTAL			306.3	97.7		

* To be confirmed by M/S. CESC

Dalder
17.02.15

STAGE-3
U/F RELAY SETTING
48.8 HZ

The name of the feeders of WBSETCL under 3rd stage U/F relay

Sl. No.	Name of Sub-Station	Name of the feeders with load quantum to be			CERTIFICATES	REMARKS
		Name of feeders	EVENING MW	MORNING MW		
1	LILUAH 132 KV	a) 33 KV Kona	1	0.8	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15.
		b) 33 KV JNP	0.4	0.3		
		c) 33 KV KTT	0.8	0.7		
		d) 33 KV MKD	0.7	0.5		
		e) 33 KV Baltikuri-1	0.5	0.4		
		f) 33 KV Baltikuri-2	0.5	0.4		
		g) 33 KV Liluah	0.8	0.7		
2	NJP 220 KV	a) 33 KV Radhabari	11.1	3.7	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15.
		b) 33 KV Raninagar	10.0	2.6		
		c) 33 KV Dabgram	14.7	2.6		
		d) 33 KV Fatapukur	7.9	0.5		
		e) 6.3 MVA Tr-1 &2	3.8	0.8		
3	SALT LAKE 132 KV	a) 33 KV M5#1	8.7	2.1	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15.
		b) 33 KV M5#2	8.7	2.0		
4	OLD BISHNUPUR 132 KV	a) 33 KV Kotolpur	11.6	1.3	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15.
		b) 33 KV Jaipur	9.3	1.1		
		c) 33 KV Simlapal	13.2	2.6		
		d) 33 KV Onda	5.3	0.5		
		e) 33 KV Bankadaha	3.1	0.5		
		f) 5 MVA Tr#1 &2	4.6	0.5		
		g) 6.3 MVA Tr#3	2.6	0.8		
5	CESC		120			*
TOTAL			239.4	25.5		

* To be confirmed by M/s. CESC

Haldar
17.02.15

STAGE-4

U/F RELAY SETTING

48.6 HZ

The name of the feeders of WBSETCL under 4th stage U/F relay

Sl. No.	Name of Sub-Station	Name of the feeders with load quantum to be tripped by U/F relay			CERTIFICATES	REMARKS
		Name of feeders	EVENING	MORNING		
			MW	MW		
1	SILIGURI 132 KV	a) 33 KV Siliguri-I	9.5	3.2	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Siliguri-II	15.8	5.3		
		c) 33 KV Rabindranagar-I	15.8	7.4		
		d) 33 KV Housing Board	9.5	4.2		
		e) 33 KV Desbondhu Para	7.4	3.2		
		f) 33 KV Gangadhor	1.4	0.3		
2	DARJEELING 132 KV	a) 33 KV Leborg	6.5	5.2	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Happy Valley	6.6	5.1		
3	JANGIPARA 132 KV	a) 33 KV Jangipara	6.8	2.1	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Siakhala	7.9	2.1		
		c) 33 KV Singti	12.9	2.1		
		h) 6.3 MVA Tr#1	5.4	1.2		
4	TAMLUK 132 KV	a) 33 KV Baraberia	7.2	2.9	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Moyna	9.9	4.0		
		c) 33 KV Gopalpur	10.9	3.4		
		d) 33 KV Tamluk	12.6	3.7		
		e) 6.3 MVA Tr#1 & 2	7.2	2.2		
5	RISHRA 220 KV	a) 33 KV Borjora-II	16.8	10.5	DC SUPPLY ON. PT FUSE O.K.	LOAD RECORDED IN JANUARY'15
		b) 33 KV Dankuni-I&II	11.6	6.3		
		c) 33 KV Kaikala-I&II	NIL	NIL		
		d) 6.3 MVA Tr#1 & 2	6.2	5.3		
		e) 6.3 MVA Tr#3 & 4	6.2	3.2		
		f) 5 MVA Tr#5	3.4	2.1		
6	CESC		125			*
TOTAL			322.4	84.7		

* To be confirmed by M/s. CESC

Haldar
17.02.15

STAGE-5

U/F RELAY SETTING

47.6 HZ

The name of the feeders of WBSETCL under 5th stage U/F relay

SL. NO.	Name of Feeders	Load (MW)	CERTIFICATES	REMARKS
1	220KV Subhasgram - Laxmikantapur # 1 & 2	210	DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
2	132 KV Ashoknagar - Jeerat # 1 & 2	110	DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
3	132 KV Arambag - Raina # 1 & 2	60	DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
4	132 KV Arambag - Birsingha #1 & 2	50	DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
5	132 KV Durgapur - Bolpur #1 & 2	130	DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
	Total	560		

Maldar
17.02.15

Sys/Con: 083

2nd February, 2016

Member Secretary
Eastern Regional Power Committee,
14, Golf Club Road
Tollygunge
Kolkata – 700 033

Re: UNDERFREQUENCY

Dear Sir,

We hereby confirm that all U/F relays and SPS including Islanding Scheme of CESC Generating Stations installed in our system are healthy and in commission.

Please also note that there was no under frequency operation for the month of **January, 2016**.

Yours faithfully,



**SR. MANAGER
SYSTEM CONTROL**



JINDAL INDIA THERMAL POWER LIMITED

VILL/P.O: DERANG, TEH: KANIHA, DIST.: ANGUL, ODISHA, PIN-759117

Phone: +91 9583040700/701/702/703

To,

Dated: 17.02.16

The General Manager,
Eastern Region Load Dispatch Centre,
KOLKATA

Sub: Status of SPS at Jindal India Thermal Power Limited, Derang, Odisha

Dear Sir,

As deliberated in OCC, wrt to the above subject, we would like to bring to you kind notice that SPS scheme implemented at our Plant is in service.

This is for your information and records.

Thanking you,

Yours Truly,

(MUKESH KHANNA)

Head – O & M
JINDAL INDIA THERMAL POWER LIMITED
DERANG
DIST – ANGUL
ODISHA

CC to Member Secretary, ERPC, Kolkata

Regd. Office: Plot No.12, Local Shopping Complex, Sector-B-1, Vasant Kunja, New Delhi-110070

Phone: 011-26139256-65, **Fax:** 011-26121734, **Website:** www.jindalgroup.com

From niladri.mandal@gatiinfra.com

Sent Monday, February 22, 2016 12:45 pm

To Member Secretary <mserpc-power@nic.in>

Cc GM ERLDC <ujwalkumar.verma@gmail.com> , Partha Sarathi Das
<psdas_psd@yahoo.com> , sanjeev.upadhyay@gatiinfra.com

Subject Confirmation of healthiness of Chuzachen SPS - January 2016

Sir,

- In compliance to ERPC communication no. ERPC/MS/2015 FAX MESSAGE : 274 Dated 30/04/2015 regarding the healthiness check of Chuzachen SPS for JANUARY 2016, it is submitted that, Rangit SPS signal was simulated at Chuzachen end **in real time and found to be working perfectly.**
- In view of above, **the healthiness of Chuzachen SPS for JANUARY 2016 is hereby confirmed for information and record of the 118th OCC Meeting forum.**

Thanking you,

warm regards,

yours sincerely,

NILADRI MANDAL - Sr GM(E)

O&M Incharge

Gati Infrastructure Pvt Ltd.

Chuzachen Hydroelectric Power Project

Lower Bering Karabari, Pakyong

East Sikkim, 737106 India

Mobile : +91 8016082299

Fax : +91 8066885455

Website : www.gatiinfra.com

**"A man is like a fraction whose numerator is what he is and whose denominator is what he thinks of himself.
The larger the denominator, the smaller the fraction." — Leo Tolstoy**

From AM BBSR <onmodisha@gmail.com>
Sent Friday, February 19, 2016 4:28 pm
To Ankan Kumar Bandyopadhyaya <mserpc-power@nic.in>
Cc GC DHAL GM AM <gcdhal@yahoo.com>
Subject Fwd: SPS Checking for February- 2016 - reg.

Dear sir,

Please find the trailing mail from Rourkela regarding testing of SPS scheme .

Regards

Ch Mohan Rao
DM(AM)

----- Forwarded message -----

From: **POWERGRID ROURKELA** <rklsubstation@gmail.com>
Date: Thu, Feb 18, 2016 at 1:13 PM
Subject: SPS Checking for February- 2016 - reg.
To: O&M Odisha <onmodisha@gmail.com>
Cc: S K Naik <sknaikindia@gmail.com>, Kaniha HVDC <hvdc.talcher@gmail.com>, GC DHAL GM AM <gcdhal@yahoo.com>, RL Panda Kaniha <pandarajiblochan@gmail.com>, S K Gupta <sk_guptag@yahoo.co.in>

Dear Sir,

The SPS testing of HVDC Talcher-Kolar Bipole at Talcher end was carried out at 12:17 hrs of 18.02.2016. Prior to the testing, the SPS was kept out of service at SEL end and confirmation regarding the same was received from SEL Control Room. The block signal was initiated from NTPC, Kaniha. There was increment in the Rx counters by (+) 1 in Code - 'C' of Channel-II of both 400kV Rourkela-Talcher #1 & 2 at Rourkela end. Also there was increment of (+) 1 in the Tx counter in Code - 'D' of Channel-II of 400kV Rourkela-SEL # 2 at Rourkela end. SEL Control Room confirmed the increment of (+) 1 in the Rx counter in Code - 'D' of Channel-II of 400kV SEL-Rourkela # 2 at SEL end. Thus the path for communication of block signal from NTPC, Kaniha to SEL, Jharsuguda via POWERGRID, Rourkela S/S was found to be healthy and working satisfactorily.

This is for favour of kind information please.

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Regards
A.K.Sahu,
Dy. Manager (S/S),
PGCIL, Rourkela.



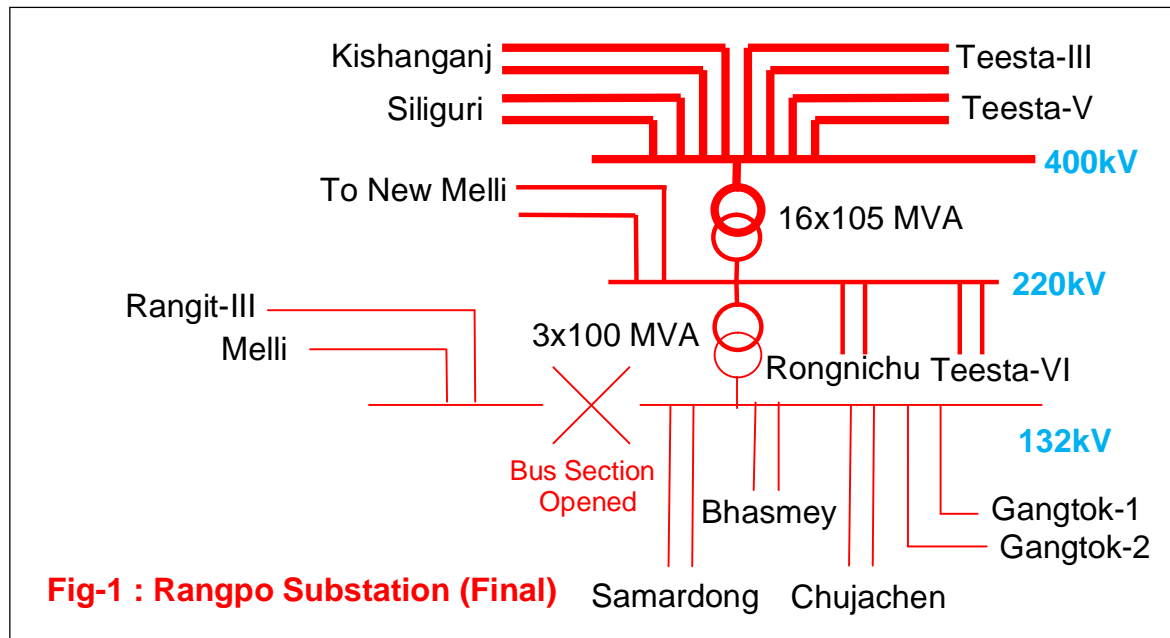
POWERGRID CORPORATION OF INDIA Ltd,
400/220 KV, Rourkela Substation,
Sector - 21, Nayabazar,
Rourkela - 769010
mail Id :- er_rklss@yahoo.o.in, rklsbstation@gmail.com



Rearrangement at Rangpo to facilitate evacuation of power from Chujachen / Jorethang project

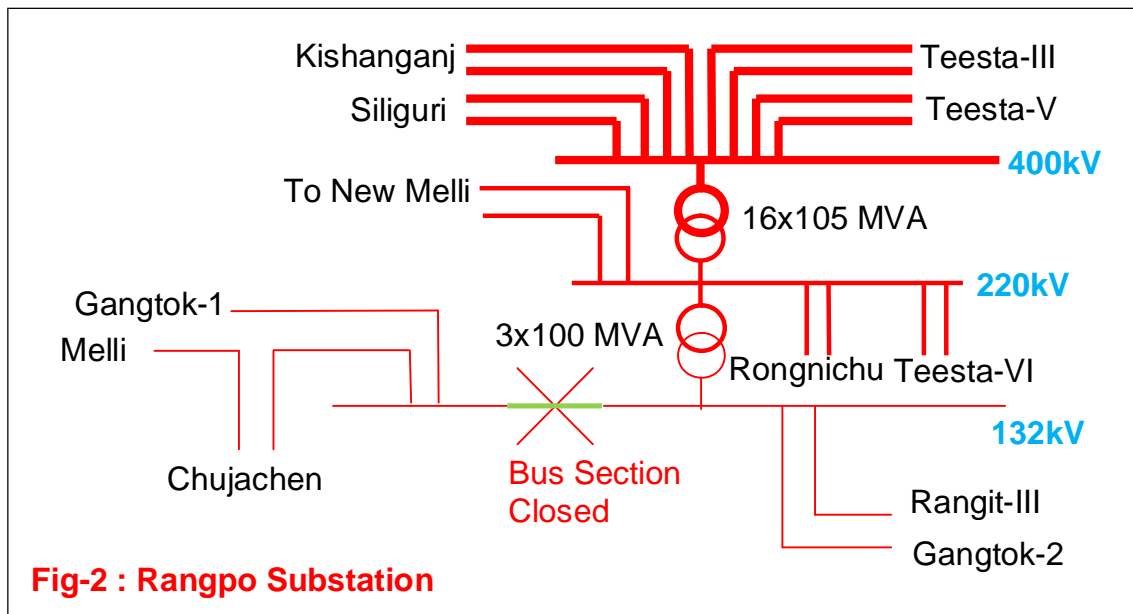
It has been reported that the generation at Chujachen (99 MW) and Jorethang Project (96 MW) are restricted during peak hours due to critical loading in the Rangpo – Melli 132kV section. The matter has been analysed and the remedial measure is suggested as below.

The Rangpo 400/220/132kV S/s was planned under HCPTC-III scheme for power evacuation from hydro projects in Sikkim. Under the subject scheme, bus splitting was approved at 132kV level at Rangpo. The final arrangement at Rangpo substation would be as below:



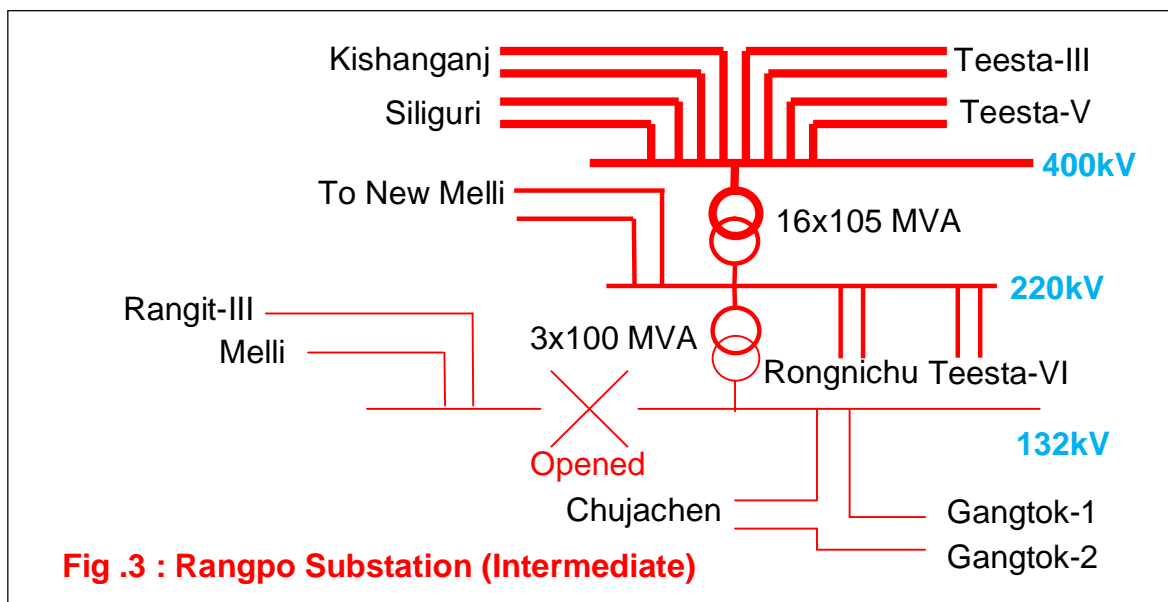
In the final arrangement, with the opening of the bus-sectionaliser, Rangit-III and Melli feeders would be isolated and there would not be any critical loading in the Rangpo-Melli section.

At present, 132kV Rangit-III - Gangtok and Melli-Gangtok lines have been LILO-ed at Rangpo substation. Further, due to delay in construction of 132 kV line bays for termination of Chujachen - Rangpo 132kV D/c dedicated line at Rangpo s/s by the project developer/govt. of Sikkim, the Chujachen – Rangpo 132kV D/c line has been connected with Rangpo – Melli 132kV S/c line, so as to form Chujachen – Rangpo and Chujachen-Melli 132kV line. The present arrangement of the Rangpo substation is shown below :



With the combined availability of Jorethang power at 220kV and Chujachen power at 132kV level, the Chujachen – Melli section gets critically loaded. The matter was discussed in various OCC meeting and also in a meeting at CEA.

The matter has been analysed and it was observed that to avoid the critical loading of Rangpo - Melli line, the Rangit-III & Melli feeders need to be isolated from Chujachen & Gangtok feeders at 132kV bus of Rangpo. The schematic diagram with such separation using bus sectionalizer is as follows :



In this regard, it is learnt from site that it is difficult to make such an arrangement (shown in Fig. 3) at present and the same would be taken care in the final arrangement (Fig. 1) with the commissioning of line bays for Chuzachen-Rangpo line. However, same arrangement could be achieved at present with the opening of the bus coupler as shown below :

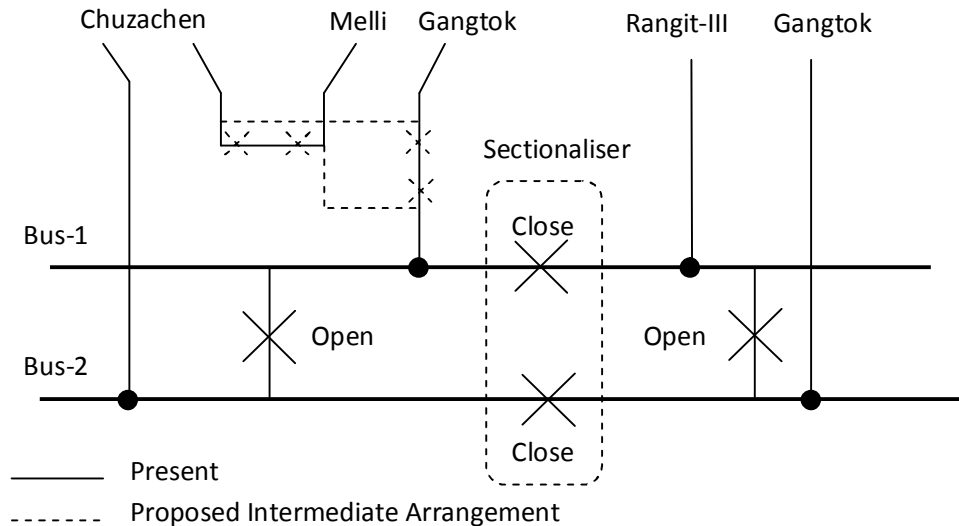


Fig .4 : Rangpo Substation (Intermediate)

Accordingly, the following need to be carried out :

1. Breaking of Chuzachen – Melli circuit near Rangpo
2. Disconnection of Rangpo – Gangtok circuit from Rangpo
3. Joining of circuit coming from Chuzachen with circuit going to Gangtok so as to form Chuzachen – Gangtok 132 kV circuit
4. Termination of circuit going to Melli in the bay vacated through disconnection of Rangpo – Gangtok circuit
5. Connecting Rangit-III & Melli feeders on one 132 kV bus (say Bus-1) and Chuzachen & Gangtok feeders on other 132 kV bus (say Bus-2) of Rangpo
6. Opening of bus coupler between Bus-1 & Bus-2.

The above arrangement may help in mitigation of the restriction on power evacuation from Jorethang and Chuzachen project. It may however be mentioned here that in case of any contingency including busbar maintenance, the present restriction on the power flow may be applicable.



Phone : 06549-242278
Fax No.06549-242279

Damodar Valley Corporation

Chandrapura Thermal Power Station
P.O. CHANDRAPURA, DIST: BOKARO,
PIN – 828 403 :: Jharkhand

No.CT/CE/E-309/ 40

Feb 04, 2016.

To,
The Chief Engineer (CLD)
DVC:Maithon

Sub: Healthy Certificate in respect of "Islanding Scheme"
Ref: Your letter No:LD/25/Thermal/321 Dtd: 02/07/2015.

Dear Sir,

With reference to above, the healthiness status of islanding system as observed today (Dt: 04/02/2016) at 11.00 Hrs is furnished below:

- A) System Healthy Indication –OK
- B) Under Frequency Relay 181—healthy indication glowing –OK
- C) Under Frequency Relay 281—healthy indication glowing –OK
- D) Under Frequency Relay 381—healthy indication glowing –OK

As per the indications available, the system is healthy in line with the in built supervision provision provided by M/s ALSTOM, the Manufacturer and Erector of the "Islanding Scheme".

This for your kind information.

Yours faithfully,

(R B Singh)

Dy. Chief Engineer (E)
CTPS Units # 1,2 & 3

Copy to;

- 1). The CE & HOP, DVC,CTPS.
- 2). The CE (O&M), DVC,CTPS.
- 3). The Dy.CE (E), DVC,CTPS.

West Bengal State Electricity Transmission Company Limited

(A Government of West Bengal Enterprise)

CIN: U40109WB2007SGC113474; Website: www.wbsetcl.in; Phone / Fax No. (033) 2334 9020
Registered Office: Vidyut Bhawan, Block-DJ, Sector-II, Bidhannagar, Kolkata - 700 091



OFFICE OF THE CHIEF ENGINEER STATE LOAD DESPATCH CENTRE

Memo No.: SLDC/How/146 / 3606.

Dated: 05/02/2016.

To
The Member Secretary,
ERPC, 14 Golf Club Road,
Tollygaunj, Kolkata-700 033.

Sub: Status of UFRs for January-2016 under BKTPP islanding.

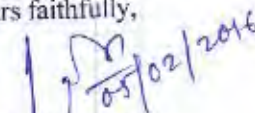
Dear Sir,

Enclosed herewith please find the healthiness report for January-2016 i.r.o. UFRs put into operation under BKTPP Islanding Scheme at 220KV Gokarna and Satgachia S/stns. of WBSETCL.
This is for your kind information please.

Thanking you.

Enclo: As stated.

Yours faithfully,


(P. K. KUNDU.)
ACE, SLDC, WBSETCL.

❖ ANDUL ROAD ❖ P.O. DANESH SEIKH LANE ❖ HOWRAH - 711109
❖ TELEPHONE : 2688-7697 ❖ FAX NO. 2688-5417 / 2688-6232
email ID:- wbsldc.hra@gmail.com

UFR Status at 220 KV Satgachia and Gokarno S/Stn. under BKTPP Islanding for January-2016.

Name of Sub-station	Name of Fdrs. connected with UFR.	Healthiness	Remarks
Gokarno 220 KV S/stn. (UFR Stg-I set at 47.90 Hz, 250ms time delay)	220 KV Sgtpp #1&2	D.C. Supply ON & PT fuse O.K.	
Gokarno 220 KV S/stn. (UFR Stg-II set at 47.60Hz, 500ms time delay)	132 KV Rampurhat #	D.C. Supply ON & PT fuse O.K.	
	33 KV Nabagram #		
Gokarno 220 KV S/stn. (UFR Stg-III set at 47.50Hz, 750ms time delay)	132 KV Kuli #	D.C. Supply ON & PT fuse O.K.	
	33 KV Bhabaninagar #		
	33 KV Kandi # 2		
Satgachia 220 KV S/stn (UFR Stg-I set at 47.90Hz, 250ms time delay)	132 KV Bandel #	D.C. Supply ON & PT fuse O.K.	
	132 KV Khannyan #		
	132 KV Mahachanda #1&2		
Satgachia 220 KV S/stn (UFR Stg-II set at 500ms time delay)	Nil		
Satgachia 220 KV S/stn (UFR Stg-III set at 47.5 Hz, 750ms time delay)	33KV Kusumgram # 1&2	D.C. Supply ON & PT fuse O.K.	
	33 KV Hatgobindapur #		
	33 KV Nadanghat #		

West Bengal State Electricity Transmission Company Limited

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CIN: U40109WB2007SGC113474; Website: www.wbsetcl.in; Phone / Fax No. (033) 2334 9020
Registered Office : Vidyut Bhawan, Block-DJ, Sector-II, Bidhannagar, Kolkata - 700 091



OFFICE OF THE CHIEF ENGINEER STATE LOAD DESPATCH CENTRE

Memo No.: SLDC/How/ 146 / 3607.

Dated: 05/02/2016.

To
The Member Secretary,
ERPC, 14 Golf Club Road,
Tollygaunj, Kolkata-700 033.

Sub: Status of UFRs for January-2016 under Tata Power islanding.

Dear Sir,

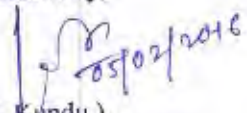
Enclosed herewith please find the healthiness report for January-2016 i.r.o. UFRs put into operation under Tata Power-Haldia Islanding Scheme at 132KV Haldia and NIZ S/stns. of WBSETCL.

This is for your kind information please.

Thanking you.

Enclo: As stated.

Yours faithfully,


(P. K. Kundu.)
ACE, SLDC, WBSETCL.

❖ ANDUL ROAD ❖ P.O. DANESH SEIKH LANE ❖ HOWRAH - 711109
❖ TELEPHONE : 2688-7697 ❖ FAX NO. 2688-5417 / 2688-6232
email ID:- wbslde.hra@gmail.com

UFR Status at 132KV Haldia and NIZ S/Stn. under Tata Power-Haldia Islanding for January-2016.

UFR Stg-I set at 47.90 Hz with 500ms time delay for Creation of Island		Healthiness	Remarks
Name of Sub-station	Name of Fdrs. to be tripped by UFR Stg-I		
Old Haldia 132KV S/stn.	132KV New Haldia direct ckt,	D.C. Supply ON & PT fuse O.K.	
	132KV HPL ckt		
	132KV Traction fdr. # 1&2		
	33KV Renuka Sugar fdr		
NIZ 132KV S/stn.	132KV Tamluk # 1&2	D.C. Supply ON & PT fuse O.K.	
	132KV Rohit Ferro fdr.		
Fdrs. to be tripped by UFR Stg-II set at 47.70 Hz with 200ms time delay for load relief.			
Old Haldia 132KV S/stn.	33kv CPT Fdr.-1	D.C. Supply ON & PT fuse O.K.	
	33kv IOC Fdr.		
	33KV Exide fdr.-1		
Fdrs. to be tripped by UFR Stg-III set at 47.60 Hz with 400ms time delay for load relief.			
Old Haldia 132KV S/stn.	33kv khudiram nagar	D.C. Supply ON & PT fuse O.K.	
	33KV Exide fdr.-2		
	33KV IOC pipe line		
	33KV Glychem		
NIZ 132KV S/stn.	33KV Basudebpur	D.C. Supply ON & PT fuse O.K.	

MONITORING OF PROGRESS OF 400 KV D/C VEDANTA-PGCIL, SUNDARGARH T/ L.**SUPPLY PORTION**

Sl. No.	Activities	Status	Remarks
1	Release of Tower spotting data & Sag Template Curve	1. Date of release of Tower spotting data: (please enclose copy) 2. Date of release of Sag Template: (please enclose copy)	1.Tower Spotting data released on dtd.05/07/2015, Submitted to PGCIL vide letter no.PGCIL/LILO/001 dtd.28/07/2015(COMPLETED) 2.Sag Template released on dtd.05/07/2015(COMPLETED)
2	Release of Drg. & BOM for Stub (All type of Tower)	1. Date of release of Drawing For Stub: (please mention type & quantity of stub) 2. Date of release of BOM for Stub: (please mention type & quantity of stub)	1.Structural Drawing released on 01/08/2015 , DA+0 =15Nos , DA+3=05Nos,DA+6 =06Nos, DC+0=08Nos, DC+6=03Nos,DC+9=03Nos, DD+0=14Nos, DD+3=03Nos, DD+9=02Nos,DD+18=01Nos, DD+25=01Nos, DD+30=07Nos 2.BOM released on 01/08/2015 , DA+0=15Nos, DA+3=05Nos, DA+6=06Nos, DC+0=08Nos, DC+6=03Nos, DC+9=03Nos, DD+0=14Nos,DD+3=03Nos, DD+9=02Nos, DD+18=01Nos, DD+25=01Nos, DD+30=07Nos
3	Release of Structural Drg. & BOM, Shop floor Drg. For all type of Tower	1. Date of release of Structural/shop floor Drawing : (Please mention type & qty of tower) 2. Date of release of BOM for Tower: (please mention type & quantity of Tower with type of extension)	1. (i) DD Type Tower released on 01/08/2015 (Completed), (ii)DA & DC Type Tower design had been applied to PGCIL, Recieved in soft copy on 4/2/2016. 2. DD, DA & DC Type Tower BOM released. Qty as above.
4	Release of Drg. for Tower Accessories	1.Date of release of Drawing for Tower Accessories: (please mention details of accessories & quantities)	All the drawings received on 07/10/2015. Approved drawing released on 15/10/2015.
5	Proto Fabrication and Assembly	Please Give details of proto fabrication and assembly according to the Tower type.	Completed
6	Release of apprvd. Proto corrected Drg.	1. Date of release of approved proto corrected Drawing : (please Mention type of Tower)	DD, DA & DC TYPE tower design proto corrected drawing are available. Completed.
7	Release of apprvd. Stringing Chart	Date of release of approved Stringing chart: (if partly approved then please mention section of the line along with location no.)	Released of stringing chart 2/11/2015. From location no.AP-1/0 to 32/0 Stringing Chart is approved on 04/11/2015. Length of line is 20.345KM.
8	Manufacturing of Stub and receipt at site	Please mention total required quantity according to the Tower type and status of receipt till date at site of the same. Also mention the schedule of balance quantity.	Total DA =22Nos, DC=14Nos, DD=28Nos Received till date: Complete Set.
9	Manufacturing of Tower and receipt at site	Please mention total required quantity according to the type and status of receipt till date at site of the same. Also mention the schedule of supply for balance quantity.	DA+0 =15Nos , DA+3=05Nos,DA+6 =06Nos DC+0=08Nos, DC+6 = 03Nos,DC+9=03Nos, DD+0=14Nos,DD+3=03Nos,DD+9=02Nos,DD+18=01Nos, DD+25=01Nos,DD+30=07Nos (i) 4Nos of DA tower already supplied. (ii) 5Nos DA and 2 Nos DD would be supplied by 29/02/2016 (iii) 23 Nos by end of March. (iii) 30Nos in Month of April.
10	Approval and Supply of Line Materials- Conductor/ Earth wire/Hardware/ Earthing Materials/ Bird Guard /Aviation Light)	1. Please mention total requirement of Line Materials(Conductor/ Earth wire/Hardware/ Earthing Materials/ Bird Guard /Aviation Light): 2. Receipt at site of the above: 3. Schedule of supply of balance quantity.	1.Qty. finalised on dtd. 12/10/2015.(COMPLETED)

Note : 01. If related work has not been started yet, planning for starting & completion need to be provided.

02. As per detailed survey total quantity required for all supply items has already been finalised. Kindly provide Purchase order placement status including quantity for which PO placed & planning for placement of PO for balance quantity of supply.

ERECTION PORTION

Sl. No.	Activities	Status	Remarks
1	Route Alignment	A. Please mention Date of finalization of route alignment (along with name of important village/mouza/area etc.) B. Length of finalized route : C. Status of Notification for construction of line	A..Finalization of route alignment,28/07/2015 (COMPLETED)1.KENAPALI 2. MAHULPALI 3.RANGIAMUNDA 4.KURGA 5.KEPSE 6.HUNDARMAL 7.KIRIPSIRA 8.PORHADIHI 9.SURDA 10.KHARMARBAHAL 11.JAMUNADHIPA 12.TELINGAPALI 13.MAHIPANI 14.NUAPARAH 15.PORHABAHAL 16.DHATAKDIPHA 17.PARDIADIHI 18.KUNDUKELA 19.DEULI 20.KAINTARA B.Length of finalized route :20.345Km C.Section 68 is in hand
2	Detailed Survey	1. Date of completion of detailed survey: (if not completed please Mention the completed) length	Completion date of Survey,28/07/2015 (COMPLETED) .On village map plotting is completed on 20/09/2015.Length:20.345KM
3	Forest Survey	1. Date of completion of survey: (if not completed please intimate the status) 2. Total forest area involved(in Hectares)with bifurcation according to type of forest land	1.Earlier proposal Dt.20/02/2015 2.Forest area involved 11.03Ha. NOTE:Due to severe ROW apprehension & avoiding of extra 05nos low gantry crossing, original route was revised.The matter has been discussed with PGCIL,Sundergarh.As per the advice of PGCIL,Sundergarh line rerouting has been done . DGPS survey completed.DGPS survey maps submitted to ORSAC,Bhubaneswar (through DFO,Sundergarh)for certification.ORSAC CERTIFICATION is available. Online submission is completed. 2.Village forest : 5.975Hectares
4	Inputs for Forest Proposal	1. Date of submission of application. 2. Please mention present status. 3. Anticipated date of clearance. 4. Proposal/ status of Compesatory Aforestation.(please Give details)	1. Application has been submitted on dt.28/12/2015 . 2. DGPS survey completed. 3. Survey report is available and Online submission is completed. 4.Land identified for Compensatory afforestation. NOTE: Due to severe ROW apprehension & avoiding of extra 05nos low gantry crossing, original route was revised.The matter has been discussed with PGCIL,Sundergarh.As per the advice of PGCIL,Sundergarh line rerouting has been done . Revised Forest Proposalhas been submitted on 29/01/2016. PCCF forwarded to DFO & Collector, Sundargarh for further action. Corridor marking and Tree enumeration work has started. DFO forwarded instructions for land verification to Tahasildar. Land verification, for tree marking, is being done by Tahsildar office.
5	Status of Detailed Survey Report	1. Please mention status of detailed survey(if survey done by other agency then mention the date of submission of detailed survey report)	Check survey has been carried out by M/s.SR Associates Infrastructure Pvt.Ltd & Survey report was approved on 01/08/2015.
6	Profiling	1.Please metion date of completion of preparation and approval of profiling.	1.Date of completion of profiling approval :01/08/2015
7	Tower spotting	1. Please mention date of completion.	Dt.07/08/2015
8	Approval of Detailed Survey	1. Please mention date of approval of detailed survey.	1.Earlier detail Survey was approved on dtd :08/12/2012.Due to revised route on account of severe ROW,rerouting has been done.Revised route survey approved on 01/08/2015.
9	Check Survey	1. Please mention date of completion of Check survey.	1.Date of completion of check survey :28/07/2015
10	Submission/Approval of Check Survey	1. Please mention date of submission/ approval of Check survey.	1.Date of completion of profiling approval :01/08/2015(COMPLETED)
11	Detailed Soil Investigation	1. Please mention present status along with no of loction done.	Soil Investigation Completed. No. of Locations 66
Sl. No.	Activities	Status	Remarks
12	Execution - Foundation	1. Please give location wise status and planning	42 Nos of foundation completed & planning to complete another 3nos. by 29th February .2016. FOLLOWING LOCATION FOUNDATION COMPLETED 27/3 on dtd 24/05/2015 , 27/04 on dtd20/05/2015,27/1 on dtd.01/06/2015 , 27/2 on dtd.12/06/2015 ,27/0 on dtd.06/06/2015 ,26/0 on dtd.17/06/2015 , 22/1 on dtd.25/07/2015,20/0 on dtd.04/08/2015 ,19/1 on dtd.11/08/2015 , 15/0 on dtd.13/08/2015 ,14/0 on dtd.18/08/2015 ,31/2 on dtd.30/08/2015 , 21/2 on dtd.01/09/2015 ,31/4 on dtd.03/09/2015 ,31/3 on dtd.10/09/2015 , 29/0 on dtd.08/10/2015,16/0 on dtd. 15/10/2015 , 17/0 on dtd.26/10/2015, 18/0 on dtd.31/10/2015, 31/1 on dtd.04/10/2015,28/0 on dtd. 15/11/2015, 29/1 on dtd.13/10/2015,15/1 on dtd.09/12/2015, 19/0 on dtd.05/11/2015, 21/1 on dtd.18/12/2015, 21/3 on dtd.18/12/2015,21/4 on dtd.17/12/2015, 21/0 on dtd.15/12/2015, 22/0 on dtd.16/12/2015 , 22/2 on dtd.19/12/2015, 13/0 on dtd. 26/12/2015 , 30/0 on dtd.29/12/2015 , 31/0 on dtd.04/01/2016, 32/0 on dtd. 06/01/2016, 33/0 on dtd.12/01/2016, 32/1 on 16/01/2016, 32/2 on dtd 22/01/2016, 1/0 on dtd 28/01/2016, 1/1 on dtd 03/02/2016, 23/0 on dtd.12/02/2016,24/0 DD+18 on 20/02/2016, 25/0 DD+18 25/02/2016.
13	Execution- Tower Erection	1. Please give location wise status and planning	Erection start dt.11/01/2016 completion date 31/05/2016. As on date 27/2,27/3, 27/4 & 19/0 Completed

14	Execution- Stringing	1. Please give stretch wise status and planning	Stringing start dt.21/03/2016,Completion Dt.30/06/2016
15	Clearance for Power Line Crossing	1. Please mention no of Power line crossings involved in the finalised route with voltage level and name of line and ownership of line. 2. Please mention status of submission and approval of these Power line crossing proposals.	1.(i)Line is crossing under 765KV Sundergarh -Dharmajaygarh Circuit-1 & 2 & proposed 765KV Sundergarh-Dharmajaygarh Circuit-3 & 4 line in low gantry system at Village Rangiamunda-Tangrapalli,Sundergarh (ii) Overhead crossing of 400KV Raigarh-Sundergarh Line at village Kirpisara-Tangrapalli-Sundergarh 2.Application for power line crossing & profile submitted vide letter no.VL/LILO/PGCIL/003 dtd.04th Sept.2015 at PGCIL,Sundergarh revised drawing. & documents submitted vide letter no.VL/LILO/PGCIL/009 dtd. 07th Nov.2015. Incorporated datas revised submitted vide letter no.VL/LILO/PGCIL/011 dtd19/12/2015. Overhead Line crossing approval obtained from PGCIL. However the low gantry crossing approval is yet to be issued. For which 7 Nos of foundation work cannot be started.
16	Clearance for Railway Crossing	1. Please mention no of Railway crossings and name of route involved in the final route. 2. Please mention submission and status of approval.	No Railway crossing is there.
17	Statutory Clearance for PTCC(Rail & DOT), including aviation clearance from Defence & Civil aviation .	1. Please mention date of submission of application. 2. Present status of PTCC proposal.	For PTCC Clearance application submitted on 23/11/2015. Online application for the Aviation clearance will be submitted on 29/02/2016.
18	Clearance & Handing over of Forest Land	1.Please mention Present status. 2. Anticipated Date of Clearance & Handing over of Forest Land	1.Due to revised route, DGPS survey of forest land is completed on 04/01/2016 . Uploaded the FDP in the MOEF website- 29/01/2016.
19	Clearance from CEA		Section -68 approval No.11/02/2010 dated,31st January,2014.
20	Clearance from ERLDC		After charging of line ERLDC clearance is required.
21	Readiness of Line Bays (Both end)		IPP end bay is in charged condition.Construction of at PGCIL is under progress ,expected completion of date 31st March,2016.
22	Notification for Charging		After completion of line works & line inspection ,notification for charging will be made.
23	Final checking of Tower and corridor		After completion of line works final checking of Tower & Corridor will be carried out.
24	Testing & Commissioning	1. Please indicate Schedule/Target date of Testing & Commissioning	Target date of testing & commissioning is dt.15/07/2016. CEA review meeting copy is attached.

Generation Projection (April'16 - June'16)

				Generation declared Commercial from 1st July '15 to 31st December '15					Generation declared/expected to be declared Commercial from 1st Jan '16 to 31st Mar'16								
Sl. No.	Entities	Region	Projections based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	TOTAL	Comments From DICs /Others (if any)	Figure as per Comments/PoC Data	Projected Generation before normalization w.r.t projected All India Peak Demand
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)			(MW)
45	West Bengal	ER	5341	Haldia TPP	1	300	196	393						5734			5734
				Haldia TPP	2	300	196										
46	Odisha	ER	3028											3028	As per data submitted by GRIDCO	3235	3235
47	Bihar	ER	296											296			296
48	Jharkhand	ER	515											515			515
49	Sikkim	ER	0											0			0
50	Chujachan	ER	104											104			104
51	DVC	ER	1524											1524	As per data given by DVC	2016	2016
52	Durgapur Steel	ER															
53	Koderma TPP	ER															
54	MPL	ER	1003											1003			1003
55	Sterlite	ER	1140											1140			1140
56	Teesta	ER	532											532	As per forecasted generation given by NHPC	525	525
57	Kahalgaon	ER	2086											2086	NTPC projected generation calculated based on last three yrs data as given by NTPC	2047	2047
58	Farakka	ER	1918											1918		1869	1869
59	Talcher	ER	981											981		981	981
60	Rangeet	ER	68											68	As per forecasted generation given by NHPC	63	63
61	Corporate Power	ER												0			0
62	Adhunik Power	ER	316											316			316
63	Barh	ER	542											542	NTPC projected generation calculated based on last three yrs data as given by NTPC	544	544

Generation Projection (April'16 - June'16)

				Generation declared Commercial from 1st July '15 to 31st December '15					Generation declared/expected to be declared Commercial from 1st Jan '16 to 31st Mar'16								
Sl. No.	Entities	Region	Projections based on 3 Years Data	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	Bus Name	Unit No.	Installed Capacity	Gen. considered	Sub Total	TOTAL	Comments From DICs /Others (if any)	Figure as per Comments/PoC Data	Projected Generation before normalization w.r.t projected All India Peak Demand
			(MW)			(MW)	(MW)	(MW)			(MW)	(MW)	(MW)	(MW)			(MW)
64	Kamalanga TPP (GMR)	ER	555											555			555
65	JITPL	ER	994	JITPL*	2	600	393	393						1386			1386
66	Jorthang	ER		Jorthang	1	48	38	38	Jorthang	2	48	38	38	76			76
67	Bhutan	ER	1208											1208			1208
	TOTAL		22151					823					38	23013			23614

Note:

- Projections are based on monthly maximum injection in the last 3 years from actual metered data.
- Generation forecast has been done based on the following criteria
 - If there is an increasing trend then last year average generation has been considered
 - Otherwise average of past three year average generation has been considered
- In case of new generators where past data was not available following has been assumed
 - 1 plf for hydro generators
 - 0.7 plf for thermal generators.
 - 0.3 plf for gas stations
- In case of the re-organized states of Andhra Pradesh and Telangana Generation is divided in the ratio 53.89% for Telangana and 46.11% for Andhra Pradesh for FY 2012-13 and 2013-14. This is as per letter No.CE/COMML./APPCC/DE-COMML/POC-DATA-15-16/D.No/15 dtd. 09.10.15 as received from APTRANSCO.

DEMAND FORECAST USING PAST 3 YEARS DATA (April 2016 - June 2016)													
										1	2	3	4
	2013-14			2014-15			2015-16						
	Apr-13	May-13	Jun-13	Apr-14	May-14	Jun-14	Apr-15	May-15	Jun-15	2013-14 Average	2014-15 Average	2015-16 Average	Projected Demand for (Apr 2016 to Jun 2016) before monsoon
Bihar	1,830	1,852	1,898	2,410	2,230	2,289	2,945	2,630	2,892	1,860	2,310	2,822	3,293
DVC	2,584	2,745	2,643	2,452	2,590	2,520	2,547	2,610	2,719	2,657	2,521	2,625	2,569
Jharkhand	1,069	996	935	1,037	961	1,001	1,043	1,067	1,083	1,000	1,000	1,064	1,086
Odisha	3,722	3,485	3,436	3,764	3,744	3,723	3,850	3,880	3,824	3,548	3,744	3,851	4,018
West Bengal	7,122	7,006	7,134	7,300	7,524	7,159	7,517	7,629	7,853	7,087	7,328	7,666	7,939
Sikkim	80	80	80	80	78	78	77	77	83	80	79	79	78
Bhutan													
Eastern Region	15,052	15,110	15,071	16,309	16,342	16,094	17,304	17,221	17,710				

Notes

1. Projections are based on the past 3 years' monthly Peak Demand Met data available on the website of CEA
2. The above projections are being done for financial year 2016-2017 (Q1) i.e April 2016 to June 2016
3. Projections are being done based on the forecast function available in MS Office Excel
4. In case of the re-organized states of Andhra Pradesh and Telangana Maximum Demand is divided in the ratio 53.89% for Telangana and 46.11% for Andhra Pradesh for FY 2012-13 and 2013-14. This is as per letter No.CE/COMML./APPC/DE-COMML/POC-DATA-15-16/D.No/15 dtd. 09.10.15 as received from APTRANSCO.
4. CEA Reports can be accessed from the following links:

http://cea.nic.in/reports/monthly/powersupply/2013/psp_peak-04.r
http://cea.nic.in/reports/monthly/powersupply/2013/psp_peak-05.r
http://cea.nic.in/reports/monthly/powersupply/2013/psp_peak-06.r
http://cea.nic.in/reports/monthly/powersupply/2014/psp_peak-04.r
http://cea.nic.in/reports/monthly/powersupply/2014/psp_peak-05.r
http://cea.nic.in/reports/monthly/powersupply/2014/psp_peak-06.r
http://cea.nic.in/reports/monthly/powersupply/2015/psp_peak-04.r
http://cea.nic.in/reports/monthly/powersupply/2015/psp_peak-05.r
http://cea.nic.in/reports/monthly/powersupply/2015/psp_peak-06.r

OCC Approved Maintenance Schedule of Thermal Generating Units for March, 2016
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System	Station	Unit	Size (MW)	period		No. of Days	Reason
				From	To		
DVC	DTPS	4	210	01.03.16	16.03.16	16	Already under shutdown.
ODISHA	IBTPS	2	210	05.03.16	25.03.16	21	Shifted to year 2016-17

Additional Maintenance Schedule as requested by constituents							
NTPC	FSTPS	2	200	01.03.16	22.03.16	22	Unit Overhaul/Maintenance
WBPDCL	KTPS	6	210	March, 2016			Under Shutdown due to Stator earth fault
NHPC	Rangit	All units	3x20	20.03.16	20.03.16	1	For complete checking of Bus-II

**EASTERN REGIONAL LOAD DESPATCH CENTRE
KOLKATA**

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 118TH 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	315 MVA ICT - I AT BOKARO - A	27-02-2016	09:00	03-03-2016	18:00	ODB	DVC	FIRE FIGHTING WORKS	
2	80MVAR B/R AT BANKA	27-02-2016	11:00	27-02-2016	14:00	ODB	ER-I	CHECKING OF CSD WAVE FORM THROUGH TIE CB	
3	315 MVA ICT - I AT PATNA	27-02-2016	10:00	22-03-2016	17:00	OCB	ER-I	REPLACEMENT BY 500 MVA ICT	Bihar/May be allowed After Pusauli ICT replacement
4	TIE BAY OF 315 MVA ICT -2 & RKL - I AT CHAIBASA	27-02-2016	09:00	01-03-2016	17:00	OCB	ER-I	FOR CSD INSTALLATION WORK	
5	200 MVA ICT -2 AT LAKHISARAI	27-02-2016	10:00	29-02-2016	18:00	OCB	ER-I	TO ATTEND OIL LEAKAGE FROM TANK	Bihar
6	MAIN BAY OF 765 KV RNC-DHARAMJAYGARH -1	27-02-2016	08:00	27-02-2016	18:00	ODB	ER-I	AMP Work	
7	132 KV TRANSFER BUS AT PRN	27-02-2016	09:00	-----		PERMANENT	ER-I	PERMANET REMOVAL OF TRANSFER BUS IS REQUIRED FOR GIS BUILDING AND ASSOCIATED CIVIL WORK	Bihar
8	132 KV PRN(PG)- PRN(BSPTCL)#3 LINE	27-02-2016	09:00	27-02-2016	17:00	ODB	ER-I	Dismantling of Transfer Bus section which is above BSPTCL -3& ICT-1 bay FOR Construction of GIS Bus duct & SF6 to air bushing foundation.	Bihar
9	132 KV PRN(PG) - KISHANGANJ LINE	27-02-2016	09:00	27-02-2016	11:00	ODB	ER-I	Dismantling of Transfer Bus section which is above BSPTCL -3& ICT-1 bay FOR Construction of GIS Bus duct & SF6 to air bushing foundation.	Bihar
10	400 KV MAIN BUS 2 including Bus Sectionalizer-2 CB DURGAPUR	27-02-2016	10:00	27-02-2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-2	
11	400kV NSLG - TALA-II LINE	27-02-2016	09:00	12-03-2016	17:00	OCB	ER-II/KOL	Conductor repairing	
12	315MVA ICT-II AT Maithon	27-02-2016	09:00	27-02-2016	18:00	ODB	ER-II/KOL	Tan Delta of 220KV R-PH Bushing at variable frequency.	DVC
13	220KV Bus coupler Bay at Rengali	27-02-2016	09:00	27-02-2016	17:00	ODB	ER-II/OD	AMP works.	ODISHA
14	(220KV line-3) 207 Bay at Bolangir	27-02-2016	09:00	27-02-2016	18:00	ODB	ER-II/OD	AMP Work	ODISHA
15	765KV BUS REACTOR-2 at Sundergarh	27-02-2016	09:00	27-02-2016	15:00	ODB	ER-II/OD	Attending constructional defects/punch points and replacing defective LA counter.	NLDC
16	400KV Mendhasal Tie Bay (40102) at Baripada	27-02-2016	08:00	27-02-2016	17:00	ODB	ER-II/OD	TO REPAIR AIR COMPRESSOR	
17	ICT-II Main Bay (Bay No.-415) at Rourkela	27-02-2016	09:00	27-02-2016	18:00	ODB	ER-II/OD	AMP work	
18	200MVA ICT-1 AT BANKA	27-02-2016	09:00	28-02-2016	18:00	OCB	ER-I	FOR ATTENDING OIL LEAKAGE FROM MAIN TOP HEADER NEAR SUSPENSION JOINT	Bihar
19	Rangpo - New Melli - 1	27-02-2016	11:00	27-02-2016	18:00	ODB	ER-II/KOL	NTAMC Command Testing for all the bays	SIKKIM
20	Rangpo - New Melli - 2	27-02-2016	11:00	27-02-2016	18:00	ODB	ER-II/KOL	NTAMC Command Testing for all the bays	SIKKIM
21	Rangpo Bus Reactor II	27-02-2016	11:00	27-02-2016	18:00	ODB	ER-II/KOL	NTAMC Command Testing for all the bays	SIKKIM
22	132 KV BIRPARA-WB-I	28-02-2016	09:00	28-02-2016	17:00	ODB	ER-II/KOL	AMP and base insulator of LA to be replaced	WEST BENGAL
23	400KV SSRM-NABINAGAR D/C	28-02-2016	10:00	28-02-2016	14:00	ODB	ER-I	FOR CROSSING WORK OF 765KV GAYA-VARANASI LINE	NABINAGAR
24	400 BUS - I AT PATNA	29-02-2016	10:00	01-03-2016	17:00	ODB	ER-I	AMP WORK	
25	315 MVA ICT - 2 AT MUZ	29-02-2016	10:00	29-02-2016	16:00	ODB	ER-I	AMP WORK	Bihar
26	80 MVAR B/R AT LAKHISARAI	29-02-2016	16:00	01-03-2016	17:00	ODB	ER-I	CSD COMMISSIONING WORK	
27	MAIN BAY OF 80 MVAR B/R AT LKR	29-02-2016	09:00	29-02-2016	17:00	ODB	ER-I	CSD COMMISSIONING WORK	
28	Main Bay OF ICT -1 AT RNC	29-02-2016	10:00	29-02-2016	17:00	ODB	ER-I	AMP	
29	765KV BUS-II AT GAYA S/S	29-02-2016	08:00	29-02-2016	18:00	ODB	ER-I	FOR GAYA-VARANASI LINE & TIE BAY CONSTRUCTION WORK AT GAYA	NLDC
30	132 KV PRN(PG)- PRN (BSPTCL)#3 LINE	29-02-2016	09:00	02-03-2016	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). 2. dismantling of existing tandem isolators /BPI of R & B phases of BSPTCL-3 line bay. 3. Installing /erecting of BPI(existing) on new proposed foundation as per requirement on particular bay& then connection to CT.	Bihar
31	220 kV NPRN-PRN#1 line	29-02-2016	09:00	29-02-2016	17:00	ODB	ER-I	Bay AMP work.	Bihar
32	220 kV NPRN-PRN#1 Main bay CB	29-02-2016	09:00	03-03-2016	17:00	OCB	ER-I	CB Mechanism box Overhauling work. NO POWER INTERUPPTION	Bihar
33	315 MVA ICT#1 DURGAPUR	29-02-2016	09:00	06-03-2016	18:00	ODB	ER-II/KOL	Replacement of ICT#1	DVC
34	133 KV RANGPO-GANGTOK-1	29-02-2016	09:30	29-02-2016	17:30	ODB	ER-II/KOL	AMP Work	SIKKIM
35	400KV Maithon JSR Main Bay (413)	29-02-2016	09:00	04-03-2016	17:00	OCC	ER-II/KOL	Overhauling of Operating Mechanism of 400kv BHEL CB	DVC
36	220 KV Dalkhola - Malda - II	29-02-2016	09:00	29-02-2016	17:00	ODB	ER-II/KOL	Maintenance work of line	
37	132 KV BIRPARA-WB-II	29-02-2016	09:00	29-02-2016	17:00	ODB	ER-II/KOL	AMP and base insulator of LA to be replaced	WEST BENGAL
38	315 MVA ICT-II-(Keonjhar S/S)	29-02-2016	09:00	09-03-2016	17:00	OCB	ER-II/OD	For attending Oil Migration from Main Tank to OLTC	
39	(220KV ICT-II LV) 208 Bay at Bolangir	29-02-2016	09:00	29-02-2016	18:00	ODB	ER-II/OD	AMP Work	ODISHA
40	765KV SUNDARGARH-ANGUL LINE-II at Sundargarh	29-02-2016	09:00	29-02-2016	15:00	ODB	ER-II/OD	Attending constructional defects/punch points and replacing defective LA counter.	NLDC
41	160MVA ICT-1 BAY at Baripada	29-02-2016	09:00	29-02-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA

42	Sundargarh-II & Ranchi-I Tie Bay (Bay No.- 429) at Rourkela	29-02-2016	09:00	29-02-2016	18:00	ODB	ER-II/OD	AMP work	
43	220 KV MAIN BUS -1 AND 2 AND 220 KV TRANSFER BUS AT CHAIBASA	29-02-2016	08:00	29-02-2016	20:00	ODB	ER-I	FOR TESTING OF INTERLOCKING OF ISOLATOR , RELAY TESTING ,SAS INTEGRATION & BUS STABILITY FOR EXTN. OF 208 & 209 BAY AT POWERGRID CHAIBASA. DURING S/D THERE WILL BE NO POWERFLOW TO JUSNL FROM CHAIBASA	JHARKHAND
44	Jeypore-Gajuwaka-I	29-02-2016	09:00	29-02-2016	13:30	ODB	ER-II/OD	3-ph Auto reclosure scheme testing of Jeypore-Gazuwaka-I line at Jeypore	NLDC
45	400KV Subhasgram-Jeerat TL	29-02-2016	08:00	03-03-2016	18:00	ODB	ER-II/KOL	OPGW rectification works	WBSETCL
46	400 kV Keonjhar line at Rengali	01-03-2016	08:00	01-03-2016	14:00	ODB	ER-II/OD	Retrofitting of Neumerical Autoreclosure relay	
47	400KV Sterlite - Raigarh#2 by Rourkela	01-03-2016	09:00	04-03-2016	18:00	OCB	ER-II/OD	Railway crossing for SER	NLDC
48	400KV Sundargarh-Raigarh#2 by Rourkela	01-03-2016	09:00	11-03-2016	18:00	OCB	ER-II/OD	Railway crossing for SER	NLDC
49	A/R OF 400KV KHLG-MTN-2	01-03-2016	07:00	31-03-2016	19:00	ODB	ER-I	FOR OPGW STRINGING WORK	ONE CKT A/R SHUTDOWN WILL BE ALLOWED OUT OF KHG - MTN - II, KHG-BARH-II,BSF-MZF-1)
50	A/R OF 400KV KHLG-BARH-2	01-03-2016	07:00	31-03-2016	19:00	ODB	ER-I	FOR OPGW STRINGING WORK	ONE CKT A/R SHUTDOWN WILL BE ALLOWED OUT OF KHG - MTN - II, KHG-BARH-II,BSF-MZF-1)
51	A/R OF 400KV BSF-MUZ-1	01-03-2016	07:00	31-03-2016	19:00	ODB	ER-I	FOR OPGW STRINGING WORK	ONE CKT A/R SHUTDOWN WILL BE ALLOWED OUT OF KHG - MTN - II, KHG-BARH-II,BSF-MZF-1)
52	MAIN BAY OF 400KV BANKA-KHLG-1 AT BANKA	01-03-2016	11:00	01-03-2016	15:00	ODB	ER-I	FOR AMP WORK	
53	400 KV JSR -DGP LINE	01-03-2016	09:30	01-03-2016	17:30	ODB	ER-I	AMP AND REPLACEMENT OF LINE BAY R-PH CT	
54	315 MVA ICT - 1 AT MUZ	01-03-2016	10:00	01-03-2016	16:00	ODB	ER-I	AMP WORK	Bihar
55	400 KV NPRN -NSLG -1	01-03-2016	10:00	01-03-2016	18:00	ODB	ER-I	FOR LINE BAY AMP WORK	
56	TIE BAY OF 80 MVAR B/R AT LKR	01-03-2016	09:00	01-03-2016	17:00	ODB	ER-I	CSD COMMISSIONING WORK	
57	400 KV EAST BUS – I AT SASARAM	01-03-2016	09:30	01-03-2016	17:30	ODB	ER-I	AMP Work . THERE WILL NOT BE ANY POWERFLOW TO 765 KV GAYA - FATEHPUR AS PER EXISTING SCHEME DUE TO OUTAGE OF 400 KV SIDE OF 765/400 KV ICT AT SASARAM	
58	400 KV SIDE BAY OF 765/400 KV ICT) AT SASARAM (406-52 CB)	01-03-2016	09:30	01-03-2016	17:30	ODB	ER-I	AMP Work .	
59	Main Bay OF Raghunathpur-I AT RNC	01-03-2016	10:00	01-03-2016	17:00	ODB	ER-I	AMP	
60	315MVA ICT-I Subhasgram	01-03-2016	09:00	01-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	WEST BENGAL
61	133 KV RANGPO-RANGIT	01-03-2016	09:30	01-03-2016	17:30	ODB	ER-II/KOL	AMP Work	
62	400 KV Bong-III Main Bay (424) New Siliguri	01-03-2016	09:00	01-03-2016	17:00	ODB	ER-II/KOL	AMP OF NSLG	
63	220kV SLG-Dalkhola Ckt-II	01-03-2016	09:00	01-03-2016	17:00	ODB	ER-II/KOL	PG clamp removal	
64	220kV NSLG-BRP Ckt-I & II	01-03-2016	09:00	01-03-2016	17:00	OCB	ER-II/KOL	Tower shifting due to doubling of rail track	NLDC
65	220 KV BUS -I Dalkhola	01-03-2016	09:00	01-03-2016	17:00	ODB	ER-II/KOL	Annual maintenance work	WEST BENGAL
66	765KV SUNDARGARH-ANGUL LINE-I at Sundargarh	01-03-2016	09:00	01-03-2016	17:00	ODB	ER-II/OD	Attending constructional defects/punch points and replacing defective LA counter.	NLDC
67	160MVA ICT-2 BAY at Baripada	01-03-2016	09:00	01-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
68	400 KV Indravati-rengali line at Indravati	01-03-2016	09:00	01-03-2016	18:00	ODB	ER-II/OD	Testing of 50MVAR L/R in Rengali Line before charging.	NLDC
69	400KV BUS-1 AT BSF	01-03-2016	09:00	10-03-2016	18:00	OCB	ER-I	FOR BUS SPLIT ARRANGEMENT	NLDC/May be allowed after restoration of 400 kV Farakka - Malda - D/C
70	220 kv BUS -1 AT & 160 MVA ICT-3 ARA	01-03-2016	09:00	01-03-2016	13:00	OCB	ER-I	BUS BAR PROTECTION RELAY TESTING	Bihar
71	220 KV BUS - 2 AT ARA	01-03-2016	14:00	01-03-2016	18:00	OCB	ER-I	BUS BAR PROTECTION RELAY TESTING	Bihar
72	Non-Auto mode of Auto-Reclose in 400kv Talcher - Rengali D/C line	01-03-2016	08:00	10-03-2016	17:30	ODB	ER-II/OD	For conducting PID scanning on porcelain insulator strings.	
73	400kV Rourkela - SEL II (old RKL-RGH IV)	01-03-2016	08:00	03-03-2016	17:30	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Raiway crossing etc.	
74	Jeypore-Gajuwaka-II	01-03-2016	09:00	01-03-2016	13:30	ODB	ER-II/OD	3-ph Auto reclosure scheme testing of Jeypore-Gazuwaka-II line at Jeypore	NLDC
75	220KV D/C Siliguri-Dalkhola	01-03-2016	06:00	01-03-2016	16:00	ODB	ER-II/KOL	LILO Work at Kishanganj	WBSETCL
76	A/R 220KV Binaguri-Birpara-I & II	01-03-2016	08:00	31-03-2016	18:00	ODB	ER-II/KOL	OPGW rectification works	NLDC
77	A/R Jeypore-Bolangir	01-03-2016	08:00	31-03-2016	18:00	ODB	ER-II/KOL	OPGW rectification works	EITHER A/R OF 400 KV JEYPORE - BOLANGIR OR 400 KV BARIPADA - KEONJHAR - RENGALI ONE WILL BE ALLOWED
78	A/R Baripada-Keonjhar	01-03-2016	08:00	31-03-2016	18:00	ODB	ER-II/KOL	OPGW rectification works	EITHER A/R OF 400 KV JEYPORE - BOLANGIR OR 400 KV BARIPADA - KEONJHAR - RENGALI ONE WILL BE ALLOWED
79	A/R Keonjhar-Rengali	01-03-2016	08:00	31-03-2016	18:00	ODB	ER-II/KOL	OPGW rectification works	EITHER A/R OF 400 KV JEYPORE - BOLANGIR OR 400 KV BARIPADA - KEONJHAR - RENGALI ONE WILL BE ALLOWED
80	400 KV Rourkela-Talcher#2 Main Bay (Bay No.- 407) at Rourkela	02-03-2016	09:00	02-03-2016	18:00	ODB	ER-II/OD	Replacement of Main Bay CTs due to oil leakage problem.	
81	MAIN BAY OF 400KV BANKA-KHLG-2 AT BANKA	02-03-2016	11:00	02-03-2016	15:00	ODB	ER-I	FOR AMP WORK	
82	400 BUS - 2 AT PATNA	02-03-2016	10:00	03-03-2016	17:00	ODB	ER-I	AMP WORK	
83	MAIN BAY OF 315 MVA ICT - I AT CHAIBASA	02-03-2016	09:00	05-03-2016	17:00	OCB	ER-I	FOR CSD INSTALLATION WORK	
84	220 KV D/C GAYA(PG) - DEHRI AND 220 KV D/C GAYA (PG) - BODHGAYA	02-03-2016	07:00	02-03-2016	18:00	ODB	ER-I	FOR STRINGING OF 400 KV D/C CHANDWA - GAYA T/L	Bihar
85	400 KV EAST BUS – II AT SASARAM	02-03-2016	09:30	02-03-2016	17:30	ODB	ER-I	AMP Work	
86	Tie Bay OF Raghunathpur-I AND ICT-II AT RNC	02-03-2016	10:00	02-03-2016	17:00	ODB	ER-I	AMP	

87	400 KV BOKARO - KODERMA - I	02-03-2016	08:00	02-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
88	400 KV Bus Reactor Jeerat	02-03-2016	09:00	02-03-2016	17:30	ODB	ER-II/KOL	AMP & R Ph. LA replacement work	
89	133 KV RANGPO-GANGTOK-1	02-03-2016	09:30	02-03-2016	17:30	ODB	ER-II/KOL	AMP Work	SIKKIM
90	80Mvar Bus reactor Berhampore	02-03-2016	08:00	02-03-2016	17:00	ODB	ER-II/KOL	AMP Work	
91	400 KV Bong-IV Main Bay (427) New Siliguri	02-03-2016	09:00	02-03-2016	17:00	ODB	ER-II/KOL	AMP of NSLG	
92	220kV NSLG-BRP Ckt-I	02-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/KOL	PG clamp removal	
93	160MVA ICT-I Malda	02-03-2016	09:00	03-03-2016	17:00	OCB	ER-II/KOL	AMP	WEST BENGAL
94	220 KV Dalkhola - Siliguri - I	02-03-2016	09:00	02-03-2016	17:00	ODB	ER-II/KOL	Annual maintenance work	
95	BRP-CHP-I	02-03-2016	09:00	02-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	NLDC
96	BRP-CHP-II	02-03-2016	09:00	02-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	NLDC
97	220 KV BUS-II BIRPARA	02-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	WEST BENGAL
98	765kV Angul-Sundergarh Line-2 at Angul	02-03-2016	08:00	02-03-2016	18:00	ODB	ER-II/OD	AMP	NLDC
99	(220KV line -4) 209 Bay at Bolangir	02-03-2016	09:00	02-03-2016	18:00	ODB	ER-II/OD	AMP Work	ODISHA
100	Gajuwaka-2 Main Bay (413) at Jeypore	02-03-2016	09:00	02-03-2016	17:30	ODB	ER-II/OD	For AMP works	
101	765/400KV, 1500MVA ICT-II at Sundergarh	02-03-2016	09:00	02-03-2016	17:00	ODB	ER-II/OD	Sprey testing of Fire Fighting system & Attending constructional defects/punch points and replacing defective LA counter.	NLDC
102	220KV SIDE OF 315MVA ICT-1 BAY at Baripada	02-03-2016	09:00	05-02-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
103	220kV ICT-II Incomer Bay (Bay No.-208) at Rourkela	02-03-2016	09:00	02-03-2016	18:00	ODB	ER-II/OD	AMP work	ODISHA
104	400KV BSF-SSRM-3	02-03-2016	10:00	02-03-2016	14:00	ODB	ER-I	FOR LINE REACTOR STABILITY TEST & CHARGING	
105	400KV Baripada-Mendhasal# 1	02-03-2016	09:00	02-03-2016	11:00	ODB	ER-II/OD	Construction works-Removal of jumpers for shifting of 63MVAR Line Reactor from Mendhasal to Pandiabii (Construction)	ODISHA
106	400KV D/C Binaguri- Purnea III & IV	02-03-2016	05:00	02-03-2016	16:00	ODB	ER-II/KOL	LILO Work at Kishanganj	NLDC
107	220KV MLD DLK-II	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-II/KOL	AMP	
108	220 KV Bus SECTIONALIZER-2, 315 MVA ICT#2 DURGAPUR	03-03-2016	10:00	03-03-2016	13:00	ODB	ER-II/KOL	Hot spot Rectification of Isolator & Connector replacement	
109	400 kV Talcher - II Main Bay at Rengali	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-II/OD	AMP works.	
110	400KV Rourkela-Chaibasa#1 Main Bay (Bay No.- 416) at Rourkela	03-03-2016	09:00	03-03-2016	18:00	ODB	ER-II/OD	Checking of DC Earth Fault problem in Main CB (41652).	
111	TIE BAY OF 400KV BANKA-KHLG-2 & FUTURE AT BANKA	03-03-2016	11:00	03-03-2016	15:00	ODB	ER-I	FOR AMP WORK	
112	400 KV JSR - MEJIA LINE	03-03-2016	09:30	03-03-2016	14:30	ODB	ER-I	TAN DELTA MEASUREMENT OF CB GRADING CAPACITOR.	DVC
113	MAIN BAY OF 125 MVAR B/R -2 AT NPRN	03-03-2016	10:00	03-03-2016	18:00	ODB	ER-I	AMP WORK	
114	MAIN BAY OF BSF -1 AT LAKHISARAI	03-03-2016	10:00	03-03-2016	14:00	ODB	ER-I	AMP WORK	
115	Main Bay OF Raghunathpur-II AT RNC	03-03-2016	10:00	03-03-2016	17:00	ODB	ER-I	AMP	
116	400 KV BOKARO - KODERMA - II	03-03-2016	08:00	03-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
117	132 KV PRN(PG)-KISHANGANJ LINE	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-I	Dismantling of Transfer Bus section which is above KISHANGANJ & ICT #2 bay FOR Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar
118	160 MVA ICT-2 AT PRN	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-I	Dismantling of Transfer Bus section which is above KISHANGANJ & ICT #2 bay FOR Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar
119	315 MVA ICT-II Subhasgram	03-03-2016	00:00	03-03-2016	17:30	ODB	ER-II/KOL	AMP WORK & Oil seepage rectification	WEST BENGAL
120	220KV Rangpo-New Melli, Ckt-2	03-03-2016	09:30	03-03-2016	17:30	ODB	ER-II/KOL	AMP Work	
121	80 MVAR LINE REACTOR BONG-III(424R) New Siliguri	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-II/KOL	AMP of NSLG	
122	220 KV BUS -II Dalkhola	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-II/KOL	Annual maintenance work	WEST BENGAL
123	160 MVA ICT-I BIRPARA	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	WEST BENGAL
124	BRP-NSLG-I	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	
125	765kat Angul BAus Reactor-2 at Angul	03-03-2016	09:00	03-03-2016	15:00	ODB	ER-II/OD	AMP	NLDC
126	(220KV line-1) 203 Bay at Bolangir	03-03-2016	09:00	03-03-2016	18:00	ODB	ER-II/OD	AMP Work	ODISHA
127	400KV BUS-I at Sundergarh	03-03-2016	09:00	04-03-2016	17:00	OCB	ER-II/OD	Bus Bar Extension for Ind Bharath Bay Extension work.	
128	220KV SIDE OF 315MVA ICT-2 BAY at Baripada	03-03-2016	09:00	03-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
129	400kV Rourkela-Sundargarh#2 at Rourkela	03-03-2016	09:00	03-03-2016	18:00	ODB	ER-II/OD	AMP work	
130	400 KV Kahalgaoon -Farakka -2	03-03-2016	09:00	03-03-2016	17:30	ODB	NTPC	PM works & relay testing	
131	220kv SUBGM(PGCL)-KLC(Bantala)	03-03-2016	05:00	03-03-2016	11:00	ODB	WBSETCL	MAINTENANCE WORK	
132	400KV Baripada-Mendhasal# 1	03-03-2016	09:00	03-03-2016	18:00	ODB	ER-II/OD	Construction works-Dismantling of bushings, conservators for shifting of 63MVAR Line Reactor from Mendhasal to Pandiabii (Construction)	ODISHA
133	400 KV MAIN BUS 3 including Bus Sectionalizer-1 CB DURGAPUR	04-03-2016	10:00	04-03-2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
134	400 kV Talcher - II - Keonjhar line- Tie Bay at Rengali	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/OD	AMP works.	
135	400 KV Keonjhar-Baripada Line at Keonjhar	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/OD	OPGW Stringing	
136	400KV MAIN BUS-1 AT BANKA	04-03-2016	10:00	04-03-2016	17:00	ODB	ER-I	FOR AMP WORK	
137	220 KV BUS - I AT PATNA	04-03-2016	10:00	04-03-2016	17:00	ODB	ER-I	AMP WORK	Bihar
138	400 KV PATNA - BARH -2 AND 400 KV KHLG - BARH -1	04-03-2016	12:00	04-03-2016	16:00	ODB	ER-I	FIXING OF ONE BLAST CUM DECAPPED PILOT-STRING FIXING ON MC -7 OF 400 KV PTN - BARH -2.	NLDC
139	A/R OF 400 KV PATNA - BARH -1 AND A/R OF 400 KV KHLG - BARH -2	04-03-2016	12:00	04-03-2016	16:00	ODB	ER-I	TO FACILITATE FIXING OF ONE BLAST CUM DECAPPED PILOT-STRING FIXING ON MC -7 OF 400 KV PTN - BARH -2.	
140	TIE BAY OF BSF -1 & ICT -1 AT LKR	04-03-2016	10:00	04-03-2016	14:00	ODB	ER-I	AMP WORK	
141	LINE REACTOR OF 400KV SASARAM- SNT AT SASARAM	04-03-2016	09:30	04-03-2016	17:30	ODB	ER-I	AMP Work	
142	400 KV BOKARO - KODERMA - I	04-03-2016	08:00	04-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC

143	220 kV NPRN-PRN#2 line	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-I	Bay AMP work.	Bihar/May be allowed after restoration of 400 kV Farakka - Malda - D/C
144	220 kV NPRN-PRN#2 Main bay CB	04-03-2016	09:00	07-03-2016	17:00	OCB	ER-I	CB Mechanism box Overhauling work. NO POWER INTERUPPTION	Bihar
145	132 KV PRN(PG)-KISHANGANJ LINE	04-03-2016	09:00	06-03-2016	17:00	ODB	ER-I	FOR Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar
146	220 KV RANGPO-JLHEP	04-03-2016	09:30	04-03-2016	17:30	ODB	ER-II/KOL	AMP Work	JLHEP
147	80 MVAR LINE REACTOR BONG-IV (427R) New Siliguri	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/KOL	AMP of NSLG	
148	160MVA ICT-II Malda	04-03-2016	09:00	05-03-2016	17:00	OCB	ER-II/KOL	AMP	WEST BENGAL
149	400KV Malda-Purnea-I	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/KOL	Maintenance work of Line	
150	160 MVA ICT-II BIRPARA	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	WEST BENGAL
151	BRP-NSLG-II	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	
152	400kV Bus Reactor-3 Main Bay (404) at Angul	04-03-2016	09:00	04-03-2016	15:00	ODB	ER-II/OD	AMP	
153	(220KV line- 2) 205 Bay at Bolangir	04-03-2016	09:00	04-03-2016	18:00	ODB	ER-II/OD	AMP Work	ODISHA
154	765kV ICT#1-B/R#1 TIE BAY(702) at Sundergarh	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/OD	AMP WORK	NLDC
155	220KV TBC BAY at Baripada	04-03-2016	09:00	04-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
156	400kV Rourkela-Ranchi#1 at Rourkela	04-03-2016	09:00	04-03-2016	18:00	ODB	ER-II/OD	AMP work	
157	400KV D/C JITPLI-ANGUL LINE By Nayagarh TLC	04-03-2016	08:00	06-03-2016	17:00	ODB	ER-II/OD	Completing the stringing work of on going construction of 765 KV Angul- Srikakulam D/C transmission line. between the section 3A/0 to 4/0.	JITPL
158	400KV BSF-NPRN-1	04-03-2016	10:00	04-03-2016	14:00	ODB	ER-I	FOR LINE REACTOR STABILITY TEST & CHARGING	NLDC/May be allowed after restoration of 400 kV Farakka - Malda - D/C
159	400 KV MAIN BUS 4 including Bus Sectionalizer-2 CB DURGAPUR	05-03-2016	10:00	05-03-2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
160	MAIN BAY OF 125 MVAR B/R -1 AT NPRN	05-03-2016	10:00	05-03-2016	18:00	ODB	ER-I	AMP WORK	
161	MAIN BAY OF ICT -1 AT LAKHISARAI	05-03-2016	10:00	05-03-2016	14:00	ODB	ER-I	AMP WORK	
162	400 KV BOKARO - KODERMA - II	05-03-2016	08:00	05-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
163	315 MVA ICT-III Subhasgram	05-03-2016	09:00	05-03-2016	17:30	ODB	ER-II/KOL	Relay retrofit	WEST BENGAL
164	220kV NSLG-BRP Ckt-II	05-03-2016	09:00	05-03-2016	17:00	ODB	ER-II/KOL	PG clamp removal	
165	400kV Bus Reactor-1 Main Bay (416) at Angul	05-03-2016	09:00	05-03-2016	15:00	ODB	ER-II/OD	AMP	
166	(220KV Bus Coupler J204 Bay at Bolangir	05-03-2016	09:00	05-03-2016	18:00	ODB	ER-II/OD	AMP Work	ODISHA
167	400KV Sterlite - Raigarh#2 by Rourkela	05-03-2016	09:00	07-03-2016	18:00	OCB	ER-II/OD	Railway crossing for SER (restoration)	NLDC
168	BkTPP:400kv Bus Tie bay & 400kv BkTPP-ARMB line	05-03-2016	06:00	06-03-2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
169	400kv BkTPP-ARMB line	05-03-2016	06:00	06-03-2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
170	400kV Sundargarh-IndBharat Line (old RKL-RGH ckt-I)	05-03-2016	08:00	05-03-2016	17:30	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing etc.	
171	400 KV MAIN BUS 1 including Bus Sectionalizer-1 CB DURGAPUR	06-03-2016	10:00	06-03-2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
172	400KV RANGPO- NSLG, CKT-1	06-03-2016	09:30	06-03-2016	17:30	ODB	ER-II/KOL	AMP Work	TEESTA
173	400kV Indravati FSC bay at Rengali	06-03-2016	09:00	06-03-2016	17:00	ODB	ER-II/OD	AMP works.	
174	400KV Baripada -Duburi Line (ie. CKT-II of earlier D/C 400KV Baripada - Mendhasal Line) by Baripada	06-03-2016	10:00	06-03-2016	14:00	ODB	ER-II/OD	Earth cutting at Span of Loc. 224 - 225 to increase ground clearance which is at present 5.5mtr.	
175	400kV Rourkela-Ranchi#2 Main Bay (Bay No.-421) at Rourkela	06-03-2016	09:00	06-03-2016	18:00	ODB	ER-II/OD	AMP work	
176	400 KV Indravati-rengali line at Indravati	06-03-2016	09:00	06-03-2016	18:00	ODB	ER-II/OD	Dismantling of bushing & turret Of 50 MVAR Rengali L/R in Overhauling	NLDC
177	400 KV BOKARO - KODERMA - I	06-03-2016	08:00	06-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
178	400kV IndBharat-Raigarh Line (old RKL-RGH ckt-I)	06-03-2016	08:00	07-03-2016	17:30	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing etc.	NLDC
179	400 KV MAIN BUS 2 including Bus Sectionalizer-2 CB DURGAPUR	07-03-2016	10:00	07-03-2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
180	400KV RANGPO- NSLG, CKT-2	07-03-2016	09:30	07-03-2016	17:30	ODB	ER-II/KOL	AMP Work	TEESTA
181	220KV MLD DLK-I	07-03-2016	09:00	07-03-2016	17:00	ODB	ER-II/KOL	AMP	
182	400 kV Talcher - I Tie Bay at Rengali	07-03-2016	09:00	07-03-2016	17:00	ODB	ER-II/OD	AMP works.	
183	765kV S/C Angul-Jharsuguda Line-I by Angul TLC	07-03-2016	08:00	10-03-2016	17:00	ODB	ER-II/OD	Bird Guard Fixing & Jumper tightening & Checking	NLDC
184	400KV BUS-II at Baripada	07-03-2016	09:00	07-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
185	220kV ICT-I Incomer Bay (Bay No.-211) at Rourkela	07-03-2016	09:00	07-03-2016	18:00	ODB	ER-II/OD	AMP work	ODISHA
186	400 KV Indravati-rengali line at Indravati	07-03-2016	09:00	07-03-2016	18:00	ODB	ER-II/OD	Fitting of turret & bushing after replacement of gaskets of 50 MVAR L/R of Rengali Line	NLDC
187	50MVAR L/R in Rengali Line at Indravati	07-03-2016	09:00	14-03-2016	17:00	OCB	ER-II/OD	Drying out of 50 MVAR L/R	
188	220 KV BUS - 2 AT PATNA	07-03-2016	10:00	08-03-2016	17:00	ODB	ER-I	AMP WORK	Bihar
189	TIE BAY OF 315 MVA ICT -I & JSR -1 AT CHAIBASA	07-03-2016	09:00	11-03-2016	17:00	OCB	ER-I	FOR CSD INSTALLATION WORK	
190	TIE BAY OF 125 MVAR B/R -2 & MLD -1 AT NPRN	07-03-2016	10:00	07-03-2016	18:00	ODB	ER-I	AMP WORK	
191	MAIN BAY OF KHLG -2 AT LKR	07-03-2016	10:00	07-03-2016	14:00	ODB	ER-I	AMP WORK	
192	400 KV BOKARO - KODERMA - II	07-03-2016	08:00	07-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
193	160 MVA ICT-2 AT PRN	07-03-2016	09:00	09-03-2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar
194	400kV NSLG-Rangpo Ckt-II	07-03-2016	09:00	07-03-2016	17:00	ODB	ER-II/KOL	PG clamp removal	
195	400KV Maithon Gaya-I line	07-03-2016	09:00	07-03-2016	18:00	ODB	ER-II/KOL	Removal of pipe bus required for commencing the retrofitting of 41752 BHEL CB with Alstom CB	
196	765kV ANGUL#2 TIE BAY(708) at Sundergarh	07-03-2016	09:00	07-03-2016	17:00	ODB	ER-II/OD	AMP WORK	NLDC
197	132KV SIDE OF 160MVA ICT-1 at Baripada	07-03-2016	09:00	07-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
198	BkTPP:400kv M.B.#1	07-03-2016	06:00	07-03-2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
199	400 KV MAIN BUS 3 including Bus Sectionalizer-1 CB DURGAPUR	08-03-2016	10:00	08-03-2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-3	
200	400KV RANGPO- TEESTA-V, CKT-1	08-03-2016	09:30	08-03-2016	17:30	ODB	ER-II/KOL	AMP Work	TEESTA

201	765 KV SC Angul- Jharsiguda Line-I, Part-II (KPTL) by JSG TLC	08-03-2016	08:00	10-03-2016	17:00	ODB	ER-II/OD	Changing of Broken insulators	NLDC
202	220kV ICT-I Bay at Rengali	08-03-2016	09:00	08-03-2016	17:00	ODB	ER-II/OD	AMP works.	ODISHA
203	400 KV Keonjhar-Rengali Line at Keonjhar	08-03-2016	09:00	08-03-2016	17:00	ODB	ER-II/OD	OPGW Stringing	
204	220KV BUS-I at Bolangir	08-03-2016	09:00	08-03-2016	18:00	ODB	ER-II/OD	AMP Work	ODISHA
205	220KV BUS-I at Baripada	08-03-2016	09:00	08-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
206	ICT-I & 50MVAR B/R Tie Bay (Bay No.- 423) at Rourkela	08-03-2016	09:00	08-03-2016	18:00	ODB	ER-II/OD	AMP work	
207	400KV MAIN BUS-2 AT BANKA	08-03-2016	10:00	08-03-2016	17:00	ODB	ER-I	FOR AMP WORK	
208	400 KV JSR - CHAIBASA LINE	08-03-2016	09:30	08-03-2016	14:30	ODB	ER-I	WT JUMPER REPLACEMENT WORK.	
209	400 KV BSF - BANKA - 1	08-03-2016	10:00	08-03-2016	14:00	ODB	ER-I	LINE BAY AMP WORK	NLDC
210	100 MVA ICT -1 AT ARA	08-03-2016	09:30	09-03-2016	17:00	OCB	ER-I	FOR OLTC OVERHAULING	Bihar
211	TIE BAY OF KHLG -2 & B/R AT LKR	08-03-2016	10:00	08-03-2016	14:00	ODB	ER-I	AMP WORK	
212	765KV RNC- DHARAMJAYGARH-1	08-03-2016	08:00	10-03-2016	18:00	ODB	ER-I	Jumper modification for line side equipment	NLDC
213	LINE REACTOR OF 400KV SASARAM – BSF # I AT SASARAM	08-03-2016	09:30	08-03-2016	17:30	ODB	ER-I	AMP Work	
214	220 Kv side Main bay CB of ICT#3 & 4	08-03-2016	09:00	11-03-2016	17:00	OCB	ER-I	CB Mechanism box Overhauling work. NO POWER INTERUPPTION	
215	315 MVA ICT-IV Subhasgram	08-03-2016	09:00	08-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	WEST BENGAL
216	400KV Maithon Durgapur-II line	08-03-2016	09:00	08-03-2016	14:00	ODB	ER-II/KOL	Line CT AMP Test	
217	315 MVA ICT-V Malda	08-03-2016	08:00	08-03-2016	18:00	ODB	ER-II/KOL	R & Y ph CT (400KV side) replacement.	WEST BENGAL
218	765kv ICT-IV Main Bay (713) at Angul	08-03-2016	09:00	08-03-2016	17:00	ODB	ER-II/OD	AMP	NLDC
219	ICT-2 Main Bay(418) at Jeypore	08-03-2016	09:00	08-03-2016	17:30	ODB	ER-II/OD	For AMP works	
220	400KV BUS-II at Sundergarh	08-03-2016	09:00	09-03-2016	17:00	OCB	ER-II/OD	Bus Bar Extension for Ind Bharath Bay Extension work.	
221	132KV SIDE OF 160MVA ICT-2 at Baripada	08-03-2016	09:00	08-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
222	400KV Rourkela-Chaibasa#1 at Rourkela	08-03-2016	09:00	10-03-2016	18:00	ODB	ER-II/OD	Removal of PIR in Main Bay CB (41652).The shutdown required due to clearance issue.	
223	PG-UIHEP Main Bay at Indravati	08-03-2016	09:00	08-03-2016	18:00	ODB	ER-II/OD	AMP activities	
224	132 KV Main Bus Gangtok	08-03-2016	8.30	08-03-2016	16:00	ODB	ER-II/KOL	AMP	SIKKIM
225	132 KV Transfer Bus	08-03-2016	8.30	08-03-2016	16:00	ODB	ER-II/KOL	AMP	SIKKIM
226	MAIN BAY OF 125 MVAR B/R -1 AT NRNC	09-03-2016	08:00	09-03-2016	18:00	ODB	ER-I	AMP Work	
227	765KV GAYA-VARANASI LINE REACTOR AT GAYA	09-03-2016	08:00	11-03-2016	18:00	ODB	ER-I	FOR GAYA-VARANASI LINE & TIE BAY CONSTRUCTION WORK AT GAYA	NLDC
228	400 KV MAIN BUS 4 including Bus Sectionalizer-2 CB DURGAPUR	09-03-2016	10:00	23-03-2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-4	
229	400KV RANGPO- TEESTA-V, CKT-2	09-03-2016	09:30	09-03-2016	17:30	ODB	ER-II/KOL	AMP Work	TEESTA
230	315MVA ICT-I AT Maithon	09-03-2016	09:00	09-03-2016	18:00	ODB	ER-II/KOL	AMP Works. And 42389B-RPH isolator alignment	DVC
231	220kV ICT-II Bay at Rengali	09-03-2016	09:00	09-03-2016	17:00	ODB	ER-II/OD	AMP works.	ODISHA
232	400/220kV 315MVA ICT-II at Rengali	09-03-2016	08:00	09-03-2016	17:00	OCB	ER-II/OD	Overhauling of 315MVA ICT-II	ODISHA
233	220KV BUS-II at Bolangir	09-03-2016	09:00	09-03-2016	18:00	ODB	ER-II/OD	AMP Work	ODISHA
234	125 Mvar Bus Reactor at Jeypore	09-03-2016	09:00	09-03-2016	17:30	ODB	ER-II/OD	For Commissioning (Online Testing) of CSD Note- Multiple closing & tripping of Reactor is desired	
235	220KV BUS-II at Baripada	09-03-2016	09:00	09-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
236	ICT-I Main Bay (Bay No.-424) at Rourkela	09-03-2016	09:00	09-03-2016	18:00	ODB	ER-II/OD	AMP work	
237	132 KV MAIN BUS AT BANKA	09-03-2016	11:00	09-03-2016	14:00	ODB	ER-I	FOR AMP WORK. THERE WILL BE NO POWER FLOW TO BSPTCL	Bihar
238	400 KV RNC - RKL -2	09-03-2016	09:30	09-03-2016	17:30	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS AT LOC. NO. 338	
239	400 KV BSF - SASARAM -3	09-03-2016	09:00	09-03-2016	18:00	ODB	ER-I	FOR LINE MAINTENANCE WORK	
240	MAIN BAY OF 400 KV NPRN -NSLG -2 AT NPRN	09-03-2016	10:00	12-03-2016	18:00	OCB	ER-I	FOR CB OVERHAULING	
241	MAIN BAY 765 KV B/R-1 AT NRNC	09-03-2016	08:00	09-03-2016	18:00	ODB	ER-I	AMP Work	
242	132 KV KUDRA-DEHRI LINE	09-03-2016	09:30	09-03-2016	17:30	ODB	ER-I	AMP Work OF BAY AT DEHRI S/S	Bihar
243	400KV Maithon Gaya-I AND 400KV Koderma Gaya-II	09-03-2016	09:00	09-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
244	400 KV Bus Reactor Jeerat	09-03-2016	09:00	09-03-2016	17:30	ODB	ER-II/KOL	Bus Reactor CB and Isolator retrofit work. Dismantling of IPS tube from Bus Reactor to Isolator	
245	400 KV Bus Reactor Main Bay	09-03-2016	09:00	05-04-2016	17:30	OCB	ER-II/KOL	Bus Reactor CB and Isolator retrofit work	
246	400kV NSLG-Bangaigaon Ckt-II	09-03-2016	09:00	09-03-2016	17:00	ODB	ER-II/KOL	PG clamp removal	NLDC
247	400KV Maithon Mejia-II Line	09-03-2016	09:00	09-03-2016	14:00	ODB	ER-II/KOL	Line CT AMP Test	DVC
248	315 MVA ICT-III Malda	09-03-2016	08:00	09-03-2016	17:00	ODB	ER-II/KOL	AMP	WEST BENGAL
249	765KV DHARAMJAYGARH#2 TIE BAY(717) at Sundergarh	09-03-2016	09:00	09-03-2016	17:00	ODB	ER-II/OD	AMP WORK	NLDC
250	315MVA ICT#1 MAIN BAY (403) at Baripada	09-03-2016	09:00	09-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
251	400KV BSF-SSRM-3 & 4	09-03-2016	08:00	10-03-2016	18:00	OCB	ER-I	S/D REQUIRED FOR EXTENSION OF 400KV BSF-SSRM-3 & 4 (FROM LOC. 515) TO VARANASI. AFTER COMPLETION OF EXTENSION WORK 400KV BSF-SSRM-3 & 4 WILL BE CHARGED AS 400KV BSF-VARANASI TL AND IS EXPECTED TO BE CHARGED BY 29.02.16.	
252	220KV SSRM(PG)-NADOKHAR(BSPTCL) & 220KV ARA(PG)-NADOKHAR(BSPTCL)	09-03-2016	08:00	10-03-2016	18:00	ODB	ER-I	FOR DESTSTRINGING OF BALANCE PORTION OF 400KV BSF-SSRM-3 & 4 FROM LOC NO 515 TO 519. THE BSPTCL LINE IS UNDER CROSSING BETWEEN LOC NO 517 TO 518.(220KV ARA-SSRM-2 HAS BEEN LLOFED AT NADHOKHAR (BSPTCL))	Bihar
253	66 KV Main Bus Gangtok	09-03-2016	8.30	09-03-2016	16:00	ODB	ER-II/KOL	AMP	SIKKIM
254	66 KV Transfer Bus Gangtok	09-03-2016	8.30	09-03-2016	16:00	ODB	ER-II/KOL	AMP	SIKKIM
255	400 KV MAIN BUS 1 including Bus Sectionalizer-1 CB DURGAPUR	10-03-2016	10:00	10-03-2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-1	
256	132 KV RANGPO-CHUZACHEN	10-03-2016	09:30	10-03-2016	17:30	ODB	ER-II/KOL	AMP Work	CHUZACHEN
257	TRANSFER BUS at Bolangir	10-03-2016	09:00	10-03-2016	18:00	ODB	ER-II/OD	AMP Work	

258	400KV Mendhasal Main Bay (401) at Baripada	10-03-2016	08:00	10-03-2016	17:00	ODB	ER-II/OD	TO PROVIDE MANUAL DRAIN VALVE	
259	ICT-II Tie Bay (Bay No.-414) at Rourkela	10-03-2016	09:00	10-03-2016	18:00	ODB	ER-II/OD	AMP work	
260	400 KV KAHALGAON- MAITHAN -1 & 2	10-03-2016	09:00	12-03-2016	18:00	OCB	ER-I	FOR POWERLINE CROSSING WORK FOR SHIFTING OF 400KV KAHALGAON- BANKA LINE FROM STAGE -1 TO STAGE -2 SIDE UNDER BUS SPLIT SCHEME AT NTPC, KAHALGAON END.	May be allowed after restoration of 400 kv Farakka - Malda - D/C
261	400 KV BSF - BANKA - 2	10-03-2016	10:00	10-03-2016	14:00	ODB	ER-I	LINE BAY AMP WORK AND FOR AUTO RECLOSE TESTING FOR TIE CB AT BANKA	NLDC
262	400 KV BSF - SASARAM -4	10-03-2016	09:00	10-03-2016	18:00	ODB	ER-I	FOR LINE MAINTENANCE WORK	
263	100 MVA ICT -2 AT ARA	10-03-2016	09:30	11-03-2016	17:00	OCB	ER-I	FOR OLTG OVERHAULING	Bihar
264	MAIN BAY OF B/R AT LKR	10-03-2016	10:00	10-03-2016	14:00	ODB	ER-I	AMP WORK	
265	132 KV SSRM - MOHANIA LINE	10-03-2016	09:30	10-03-2016	17:30	ODB	ER-I	AMP Work	Bihar
266	Tie Bay OF Sipat-I AND future AT RNC	10-03-2016	10:00	10-03-2016	17:00	ODB	ER-I	AMP	
267	132 KV PRN(PG)-PRN (BSPTCL#2 LINE	10-03-2016	09:00	10-03-2016	17:00	ODB	ER-I	Dismantling of Transfer Bus which is above TBC & BSEB- 2 bayFOR Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar
268	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	10-03-2016	09:00	10-03-2016	11:00	ODB	ER-I		Bihar
269	315 MVA ICT-V Subhasgram	10-03-2016	09:00	10-03-2016	17:30	ODB	ER-II/KOL	LA counter replacement and AMP	WEST BENGAL
270	400kV NSLG-Bangaigaon Ckt-II	10-03-2016	09:00	10-03-2016	17:00	ODB	ER-II/KOL	Insulator replacement	NLDC
271	132 KV TBC CB BIRPARA	10-03-2016	09:00	10-03-2016	17:00	OCB	ER-II/KOL	CB Overhauling	WEST BENGAL
272	315MVA ICT#1 MAIN BAY (406) at Baripada	10-03-2016	09:00	10-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
273	PG-UIHEP Tie Bay at Indravati	10-03-2016	09:00	10-03-2016	18:00	ODB	ER-II/OD	AMP activities	
274	400 KV Kahalgaon -Farakka -1	10-03-2016	09:00	10-03-2016	18:00	ODB	NTPC	PM works & relay testing	
275	765 KV Angul-Jharsuguda	10-03-2016	08:00	25-03-2016	18:00	ODB	ER-II/KOL	OPGW rectification works	NLDC
276	50 MVA ICT -1 Gangtok	10-03-2016	8.30	10-03-2016	16:00	ODB	ER-II/KOL	AMP	SIKKIM
277	200 MVA ICT -1 AT LKR	11-03-2016	09:30	11-03-2016	17:30	ODB	ER-I	AMP WORK	Bihar
278	132 KV MOHANIA - KARAMNASALINE	11-03-2016	09:30	11-03-2016	17:30	ODB	ER-I	FOR AMP WORK OF LINE BAY AT KARAMNASAL	Bihar
279	Main Bay OF Sipat-I AT RNC	11-03-2016	10:00	11-03-2016	17:00	ODB	ER-I	AMP	
280	400KV Maithon Gaya-II AND 400KV Koderma Gaya-I	11-03-2016	09:00	11-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
281	132 KV PRN(PG)-PRN (BSPTCL#2 LINE	11-03-2016	09:00	13-03-2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar
282	132kv SLG- Kurseong - Rangit	11-03-2016	09:00	11-03-2016	17:00	ODB	ER-II/KOL	PG clamp removal	WEST BENGAL
283	400KV MTN-KHG-I Line with LR	11-03-2016	09:00	11-03-2016	14:00	ODB	ER-II/KOL	CSD re commissioning	
284	765KV DHARAMJAYGARH#2 MAIN BAY(718) at Sundergarh	11-03-2016	09:00	11-03-2016	17:00	ODB	ER-II/OD	AMP WORK	NLDC
285	400KV MENDHASAL MAIN BAY (410) at Baripada	11-03-2016	09:00	11-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
286	400 KV Farakka - Kahalgaon-2	11-03-2016	09:30	11-03-2016	17:30	ODB	NTPC	Relay and CT testing	
287	400KV BUS-2 AT BSF	11-03-2016	09:00	20-03-2016	18:00	OCB	ER-I	FOR BUS SPLIT ARRANGEMENT	NLDC/May be allowed after restoration of 400 kv Farakka - Malda - D/C
288	220 KV SUBHASGRAM- WBSETCL Line # 1	12-03-2016	09:00	12-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	WEST BENGAL
289	132kv Kurseong - Rangit	12-03-2016	09:00	12-03-2016	17:00	ODB	ER-II/KOL	PG clamp removal	WEST BENGAL
290	400KV MTN-KHG-II Line with LR	12-03-2016	09:00	12-03-2016	14:00	ODB	ER-II/KOL	CSD re commissioning	
291	400KV DUBURI MAIN BAY (407) at Baripada	12-03-2016	09:00	12-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
292	220KV Birpara-New Siliguri Ckt-2	12-03-2016	09:00	12-03-2016	14:00	ODB	ER-II/KOL	AMP Work	
293	132 KV BRP-WB-I (CB)	13-03-2016	09:00	15-03-2016	17:00	OCB	ER-II/KOL	CB Overhauling	WEST BENGAL
294	400kv PPSP-ARMB#2	13-03-2016	07:00	13-03-2016	14:00	ODB	WBSETCL	MAINTENANCE WORK	
295	MAIN BAY OF 315 MVA ICT -2 AT CHAIBASA	14-03-2016	09:00	15-03-2016	17:00	OCB	ER-I	FOR CSD INSTALLATION WORK	
296	L/R OF Sipat-I AT RNC	14-03-2016	10:00	14-03-2016	17:00	ODB	ER-I	AMP WORK. S/D OF 10 MTS WILL BE REQUIRED FOR 400 KV RNC - SIPAT -1 EACH TIME FOR ISOLATION OF L/R AND FOR TAKING IT INTO SERVICE.	
297	765KV Gaya-Balia line	14-03-2016	09:00	14-03-2016	18:00	ODB	ER-I	FOR AMP WORK	NLDC
298	132 KV PRN(PG)-PRN (BSPTCL#1 LINE	14-03-2016	09:00	14-03-2016	17:00	ODB	ER-I	Dismantling of Transfer Bus which is above ICT 3 & BSPTCL 1 bay FOR Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar
299	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	14-03-2016	09:00	14-03-2016	17:00	ODB	ER-I	Dismantling of Transfer Bus which is above ICT 3 & BSPTCL 1 bay FOR Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar
300	220KV BUS-1 AT PURNEA	14-03-2016	09:00	14-03-2016	17:00	ODB	ER-I	FOR RECONNECTION OF ICT-1 BAY 220 KV MAIN BUS-1 & 2 NEW ISOLATORS BY BHEL , BUS CVT REPLACEMENT UNDER ADD-CAP, Bus bar AMP (NO POWER INTERUPPTION)	Bihar
301	220 KV SUBHASGRAM- NEW TOWN Line	14-03-2016	09:00	14-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	WEST BENGAL
302	400kv NSLG - TALA-III LINE	14-03-2016	09:00	28-03-2016	17:00	OCB	ER-II/KOL	Conductor repairing	NLDC
303	400KV MTN-Mejia-I Line with LR	14-03-2016	09:00	14-03-2016	14:00	ODB	ER-II/KOL	CSD re commissioning	DVC
304	400 KV Bus Reactor Main Bay (408) at Keonjhar	14-03-2016	09:00	14-03-2016	17:00	ODB	ER-II/OD	AMP	
305	765kv B/R#1 MAIN BAY(701) at Sundergarh	14-03-2016	09:00	14-03-2016	17:00	ODB	ER-II/OD	AMP WORK	NLDC
306	400kv PPSP-ARMB#1	14-03-2016	07:00	14-03-2016	12:00	ODB	WBSETCL	MAINTENANCE WORK	
307	220KV Siliguri-Binaguri Ckt-1	14-03-2016	09:00	14-03-2016	14:00	ODB	ER-II/KOL	AMP Work	
308	400 KV BSF - KODERMA -1	15-03-2016	09:00	16-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
309	765KV Gaya-Fatehpur line	15-03-2016	09:00	15-03-2016	18:00	ODB	ER-I	FOR AMP WORK	NLDC
310	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	15-03-2016	09:00	17-03-2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation.	Bihar

311	220KV BUS-2 AT PURNEA	15-03-2016	09:00	15-03-2016	17:00	ODB	ER-I	FOR RECONNECTION OF ICT-1 BAY 220 KV MAIN BUS-1 & 2 NEW ISOLATORS BY BHEL , BUS CVT REPLACEMENT UNDER ADD-CAP, Bus bar AMP (NO POWER INTERUPPTION)	Bihar
312	220 KV Main Bus #1	15-03-2016	09:00	15-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	
313	220 KV MTN-DHANBAD-I	15-03-2016	09:00	15-03-2016	17:00	ODB	ER-II/KOL	AMP Works.	DVC
314	400KV Binaguri-Bongaigaon D/C	15-03-2016	09:00	24-03-2016	17:00	OCB	ER-II/KOL	Railway modification work at Loc 466- 468	NLDC
315	400 KV Bus Reactor Tie Bay (408) at Keonjhar	15-03-2016	09:00	15-03-2016	17:00	ODB	ER-II/OD	AMP	
316	80 MVAR Bus Reactor at Keonjhar	15-03-2016	09:00	15-03-2016	17:00	ODB	ER-II/OD	AMP	
317	ICT-I (3x 105 MVA) at Jeypore	15-03-2016	10:30	15-03-2016	11:30	ODB	ER-II/OD	For changing ICT-I combination form Unit-I, II, III to Unit-I,II and IV for oil replacement works at Unit-III	ODISHA
318	220KV BC BAY at Baripada	15-03-2016	09:00	15-03-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
319	400 KV Barh-Patna - IV	15-03-2016	09:30	16-03-2016	18:00	ODB	NTPC	PM Job of CTs, CVTs, LAs, Isolator, CB. Line outage Required.	
320	765/400KV, 1500 MVA ICT MAIN BAY(765KV SIDE)	15-03-2016	09:30	15-03-2016	17:30	ODB	ER-I	AMP work(DURING THE S/D 765KV B/R WILL NOT BE IN SERVICE)	NLDC
321	Durgapur: 400 MB#2 & diversion of DGP-ARMB line	15-03-2016	08:00	17-03-2016	15:00	OCB	WBSETCL	MAINTENANCE WORK	
322	Non-Auto mode of Auto-Reclose in 400kv Indravati - Jeypore S/C line	15-03-2016	08:00	23-03-2016	17:30	ODB	ER-II/OD	For conducting PID scanning on porcelain insulator strings.	
323	220KV Siliguri-Binaguri Ckt-2	15-03-2016	09:00	15-03-2016	14:00	ODB	ER-II/KOL	AMP Work	
324	400 KV FARAKKA - KAHALGAON-1 & 2	16-03-2016	09:00	19-03-2016	18:00	OCB	ER-I	FOR POWERLINE CROSSING WORK FOR SHIFTING OF 400KV KAHALGAON- BANKA LINE FROM STAGE -1 TO STAGE -2 SIDE UNDER BUS SPLIT SCHEME AT NTPC. KAHALGAON FND	May be allowed after restoration of 400 kv Farakka - Malda - D/C
325	FSC OF 400 KV RNC - SIPAT -1 AT RNC	16-03-2016	10:00	16-03-2016	17:00	ODB	ER-I	S/D REQUIRED FOR CHECKING OF Spare PS811 Card	
326	765KV BUS-I AT GAYA S/S	16-03-2016	10:00	16-03-2016	17:00	ODB	ER-I	FOR GAYA-VARANASI LINE & TIE BAY CONSTRUCTION WORK	NLDC
327	220 KV SUBHASGRAM- CESC Line # 1	16-03-2016	09:00	16-03-2016	15:00	ODB	ER-II/KOL	For relay testing and other AMP work	WEST BENGAL
328	220 KV MTN-DHANBAD-II	16-03-2016	09:00	16-03-2016	17:00	ODB	ER-II/KOL	AMP Works.	DVC
329	132 KV BRP-WB-II (CB)	16-03-2016	09:00	18-03-2016	17:00	OCB	ER-II/KOL	CB Overhauling	WEST BENGAL
330	765kv ICT#1 MAIN BAY(703) at Sundergarh	16-03-2016	09:00	16-03-2016	17:00	ODB	ER-II/OD	AMP WORK	NLDC
331	TIE BAY OF 765/400KV 1500 MVA ICT (765KV SIDE)	16-03-2016	09:30	16-03-2016	17:30	ODB	ER-I	AMP work(DURING THE S/D THERE WILL BE NOT ANY POWER FLOW IN 765KV SSRM-FATEHPUR LINE)	NLDC
332	400 KV BSF - KODERMA -2	17-03-2016	09:00	18-03-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
333	Main Bay OF 220KV RNC-Chandil-I AT RNC	17-03-2016	10:00	17-03-2016	17:00	ODB	ER-I	AMP. NO POWER INTERUPPTION.	
334	765KV BUS-II AT GAYA S/S	17-03-2016	10:00	17-03-2016	17:00	ODB	ER-I	FOR GAYA-VARANASI LINE & TIE BAY CONSTRUCTION WORK	NLDC
335	220 KV Main Bus #2	17-03-2016	09:00	17-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	
336	220KV Maithon - Kalyaneshwari-1 line	17-03-2016	09:00	17-03-2016	17:00	ODB	ER-II/KOL	Alignment adjustment of line isolator	DVC
337	400KV MLD PRN-II	17-03-2016	08:00	17-03-2016	17:00	ODB	ER-II/KOL	AMP	
338	63 MVAR Bus Reactor at Jeypore	17-03-2016	09:00	17-03-2016	17:30	ODB	ER-II/OD	For AMP works	
339	132 KV Kahalgaon -Sabour Line	17-03-2016	09:00	17-03-2016	18:00	ODB	NTPC	PM works & relay testing	
340	400 KV Farakka - Behrampur	17-03-2016	09:30	17-03-2016	17:30	ODB	NTPC	Relay testing 7 pm WORK	NLDC
341	MAIN BAY OF 765 KV SSRM - FTP LINE	17-03-2016	09:30	17-03-2016	17:30	ODB	ER-I	AMP work.765 kv BUS-1 will be out of service AS PER PRESENT SCHEME	NLDC
342	Main Bay OF 220KV RNC-Hatia- 1 AT RNC	18-03-2016	10:00	18-03-2016	17:00	ODB	ER-I	AMP	
343	132 KV PRN(PG)-PRN (BSPTCL#1 LINE	18-03-2016	09:00	20-03-2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation	Bihar
344	220 KV SUBHASGRAM- CESC Line # 2	18-03-2016	09:00	18-03-2016	15:00	ODB	ER-II/KOL	For relay testing and other AMP work	WEST BENGAL
345	765kv ANGUL#2 MAIN BAY(707) at Sundergarh	18-03-2016	09:00	18-03-2016	17:00	ODB	ER-II/OD	AMP WORK	NLDC
346	765 KV BUS - II AT SSRM	18-03-2016	09:30	18-03-2016	17:30	ODB	ER-I	AMP work. 765 KV B/R & 709 BAY(ICT MAIN BAY) WILL BE OUT OF SERVICE AS PER PRESENT SCHEME.	NLDC
347	Durgapur: 400 MB#1 & Bus-Coupler	18-03-2016	08:00	18-03-2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
348	315 MVA ICT -1 AT RNC	19-03-2016	10:00	19-03-2016	12:00	ODB	ER-I	TAN DELTA MEASUREMENT OF LINE CT OF 220 KV SIDE (MAIN BAY)	JHARKHAND
349	400KV BUS-I AT GAYA S/S	19-03-2016	10:00	19-03-2016	17:00	ODB	ER-I	FOR GAYA-CHANDWA LINE BAY CONSTRUCTION WORK	
350	400 KV Main Bus #2	19-03-2016	09:00	19-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	
351	220KV Maithon - Kalyaneshwari-2 line	19-03-2016	09:00	19-03-2016	17:00	ODB	ER-II/KOL	Alignment adjustment of line isolatorand Insulator replacement	DVC
352	220 kv Bus Coupler Bay(202) at Jeypore	19-03-2016	09:00	19-03-2016	17:30	ODB	ER-II/OD	For AMP works	ODISHA
353	Main Bay OF Maithon-I AT RNC	20-03-2016	10:00	20-03-2016	17:00	ODB	ER-I	AMP	
354	400kv ARMBG- DGP	20-03-2016	06:00	20-03-2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
355	Tie Bay OF Maithon-I AND ICT-I AT RNC	21-03-2016	10:00	21-03-2016	17:00	ODB	ER-I	AMP	
356	400KV BUS-II AT GAYA S/S	21-03-2016	10:00	21-03-2016	17:00	ODB	ER-I	FOR GAYA-CHANDWA LINE BAY CONSTRUCTION WORK	
357	220 KV SUBHASGRAM- KLC Line	21-03-2016	09:00	21-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	WEST BENGAL
358	400KV B/R#2 TIE BAY(417) at Sundergarh	21-03-2016	09:00	21-03-2016	17:00	ODB	ER-II/OD	AMP WORK	
359	220KV BUS-I AT GAYA S/S	22-03-2016	10:00	22-03-2016	17:00	ODB	ER-I	FOR ISOLATOR MODIFICATION WORK	Bihar
360	400KV Maithon Gaya-I line	22-03-2016	09:00	22-03-2016	18:00	ODB	ER-II/KOL	Fixing of earlier removed pipe bus for taking the newly installed CB into service	
361	400 KV Farakka - Durgapur-1	22-03-2016	09:30	22-03-2016	17:30	ODB	NTPC	Relay and CT testing	
362	220KV BUS-II AT GAYA S/S	23-03-2016	10:00	23-03-2016	17:00	ODB	ER-I	FOR ISOLATOR MODIFICATION WORK	Bihar
363	400KV TBC Malda	23-03-2016	08:00	23-03-2016	17:00	ODB	ER-II/KOL	AMP	WEST BENGAL
364	220 KV SUBHASGRAM- WBSETCL Line # 2	25-03-2016	09:00	25-03-2016	17:30	ODB	ER-II/KOL	AMP WORK	WEST BENGAL
365	50MVA ICT-IV Malda	25-03-2016	09:00	25-03-2016	17:00	ODB	ER-II/KOL	AMP	WEST BENGAL
366	400 KV Farakka - Kahalgaon-1	30-03-2016	09:30	30-03-2016	17:30	ODB	NTPC	Relay testing & PM WORK	
367	400 KV Bus Reactor Jeerat	05-04-2016	09:00	05-04-2016	17:30	ODB	ER-II/KOL	Final protection testing of new CB and erection of IPS tube from Bus Reactor to new Isolator	WEST BENGAL

Outages proposed in other RPCs requiring ERPC approval

Sl No	outages proposed in	Name of Requesting Agency	Name of Elements	From		To		Basis	Reason	Remarks (If Any)
				Date	Time	Date	Time			
1	SRPC	POWERGRID	HVDC Talcher-Kolar Bipole	9-Feb-16	6:00	31-Mar-16	20:00	Daily basis (D)	For Hotline Washing of Insulators. the Auto reclose selection of both lines to be kept in Non auto mode	
2	SRPC	POWERGRID	400 kV Jeypore-Gajuwaka-1 & 2	9-Feb-16	6:00	31-Mar-16	20:00	Daily basis (D)	For Hotline Washing of Insulators. the Auto reclose selection of both lines to be kept in Non auto mode	
3	WRPC	NTPC	Sipat-Ranchi-2 line	22-Feb-16	07:30 hrs	23-Feb-16	19:00 Hrs.	CONT	Annual Preventive maintenance	
4	WRPC	POWERGRID	Sipat - Ranchi Ckt I	24-Feb-16	8:00	25-Feb-16	18:00	Daily	For AMP work	
5	WRPC	CSPTCL	Korba-Budhipadar Feeder No.2 at Korba East Complex.	25-Feb-16	8:00	26-Feb-16	17:30	cont.	Annual Testing /Maintenance Programme	
6	WRPC	WRTS-I/CG	Sipat - Ranchi Ckt II	8-Mar-16	8:00	9-Mar-16	18:00	Daily	For AMP work	
7	NRPC	POWERGRID	765 kV Gaya-Fatehpur	1-Mar-16	8:00	2-Mar-16	18:00	Cont	Stringing and Jumpering of LILO poetion to Varanasi 765 kV SS	
8	NRPC	POWERGRID	400 kV Barh-Gorakhpur-1	2-Mar-16	10:00	2-Mar-16	15:00	D	Reactor NGR bypass scheme commissioning at GKP	
9	NRPC	POWERGRID	400 kV Barh-Gorakhpur-1	3-Mar-16	10:00	3-Mar-16	15:00	D	Reactor NGR bypass scheme commissioning at GKP	
10	NRPC	POWERGRID	400 kV Allahabad-Sasaram	3-Mar-16	8:00	3-Mar-16	18:00	D	Termination/Jumpering of LILO of Allahabad-Sarnath line at Varanasi	
11	NRPC	POWERGRID	400 kV Sarnath-Sasaram	21-Mar-16	8:00	21-Mar-16	18:00	D	Cleaning of insulator stacks & maintenance of isolators	

Minutes of Special meeting for issues related to HTLS re-conductoring of 400 kV FSTPS – Malda
held on 01.02.2016 at ERPC

Member Secretary, ERPC welcomed all the participants to the special meeting. The followings were discussed and agreed:

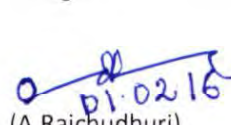
1. The latest status of the line was reviewed. Powergrid informed that out of 34 ckt km line (pending as on 22.01.2016), 7.2 ckt km has been completed till 31.01.2016. Detailed progress as on 31.01.2016 is as given below:

Ckt-I: 26.334 ckt km
 Ckt-II: 30.992 ckt km
Total balance: 26.674 km
2. Following shutdown related to the above task were required:
 - a. Shutdown of 132 kV Malda-Khejuria D/C line—It was agreed to allow on 04.02.2016 (from 04:00 Hrs to 15:00 Hrs).
 - b. Shutdown of 132 kV Farakka SY- Raghunathganj line: WBSETCL informed that joint inspection may be carried out for identification of the exact line section and accordingly the shutdown request may be placed and if possible it will be given on 14.02.2016.
 - c. Shutdown of 33kV feeders: It was informed that the shutdown of 33kV feeders will be given by WBSEDCL. Powergrid informed that they will request WBSEDCL for switching this 33 kV lines on cables for facilitating stringing for un-interrupted supply and will interact with WBSEDCL.
 - d. Complete Shutdown of 400 kV Malda bus I & II: It was agreed to allow on 07.02.2016 (from 04:00 Hrs to 15:00 Hrs) subject to consent of Bihar for load restriction of 110 MW and for WBSETCL 100 MW. The issue will be discussed on 05.02.2016 in the special meeting with BSPTCL.
 - e. Shutdown of 400 kV Farakka Bus (one by one) for stability test: It will be allowed as and when required.

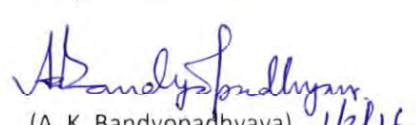
Accordingly, Powergrid was advised to submit the consolidated list of all the shutdowns and by tomorrow (i.e. 02.02.2016).

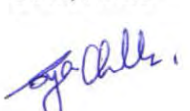
3. After detailed discussion it was agreed that Powergrid will put in best efforts to bring the 400 kV Farakka-Malda D/C line by 15.02.2016 as suggested by stakeholders by completing the HTLS work with upgraded bays at both end except for line-I at FSTPP end as unit #3 shutdown would be required. This extension of re-conductoring of HTLS work is agreed upon provided there will be no load shedding/power cuts in West Bengal under normal condition.
4. WBSETCL suggested to explore hot line stringing as was carried out by other agencies like CESC wherever shutdown is not possible.
5. The next review meeting shall be held on 08.02.2016 at 11:00 Hrs at ERPC, Kolkata.

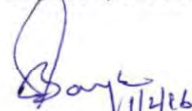

 (L.K. Khajkumar)
 DGM, PGCIL


 (A. Raichudhuri)
 CE, SLDC, WBSETCL

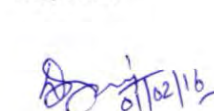

 (P.P. Bandyopadhyay)
 DGM, ERLDC


 (A. K. Bandyopadhyaya)
 MS, ERPC


 (S.S. Choudhury)
 DGM, PGCIL


 (S. Banerjee)
 DGM, ERLDC


 (P.S. Das)
 Asst GM, ERLDC


 (D. K. Bauri)
 EE, ERPC

Annexure-C.2

**Anticipated Power Supply Position for the month of
Mar-16**

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
i)	NET MAX DEMAND	3200	1628
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	670	159
	- Central Sector	2281	1410
iii)	SURPLUS(+)/DEFICIT(-)	-249	-59
2	JHARKHAND		
i)	NET MAX DEMAND	1170	755
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	519	287
	- Central Sector	502	292
iii)	SURPLUS(+)/DEFICIT(-)	-149	-177
3	DVC		
i)	NET MAX DEMAND (OWN)	2718	1685
ii)	NET POWER AVAILABILITY- Own Source	4739	2520
	- Central Sector	444	292
	Long term Bi-lateral (Export)	1250	930
iii)	SURPLUS(+)/DEFICIT(-)	1215	197
4	ORISSA		
i)	NET MAX DEMAND	4200	2400
ii)	NET POWER AVAILABILITY- Own Source	3200	1700
	- Central Sector	1076	670
iii)	SURPLUS(+)/DEFICIT(-)	76	-30
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAX DEMAND (OWN)	5964	3193
ii)	CESC's DRAWAL	0	0
iii)	TOTAL WBSEDCL's DEMAND	5964	3193
iv)	NET POWER AVAILABILITY- Own Source	4187	2300
	- Import from DPL	180	53
	- Central Sector	1585	931
v)	SURPLUS(+)/DEFICIT(-)	-11	91
5.2	DPL		
i)	NET MAX DEMAND	270	234
ii)	NET POWER AVAILABILITY	450	287
iii)	SURPLUS(+)/DEFICIT(-)	180	53
5.3	CESC		
i)	NET MAX DEMAND	1750	785
ii)	NET POWER AVAILABILITY - OWN SOURCE	810	546
	FROM HEL	540	185
	FROM CPL/PCBL	40	15
	Import Requirement	360	39
iii)	TOTAL AVAILABILITY	1750	785
iv)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAX DEMAND	7984	4212
ii)	NET POWER AVAILABILITY- Own Source	5447	3133
	- Central Sector	2125	1116
iii)	SURPLUS(+)/DEFICIT(-)	-411	37
7	SIKKIM		
i)	NET MAX DEMAND	90	38
ii)	NET POWER AVAILABILITY- Own Source	16	3
	- Central Sector+Others	159	60
iii)	SURPLUS(+)/DEFICIT(-)	85	25
8	EASTERN REGION		
	At 1.03 AS DIVERSITY FACTOR		
i)	NET MAX DEMAND	18798	10717
	Long term Bi-lateral	1250	930
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	21178	11641
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	1130	-6