

Eastern Regional Power Committee **Kolkata-33**

Salient Decisions taken in 108th OCC meeting held on 17.04.15

1. OCC decided that the generation relief during HVDC Talcher-Kolar pole tripping will be shared among GMR, Sterlite & JITPL as follows:

GMR	200MW
Sterlite	200MW
JITPL	200MW

OCC advised all the three generators to revise the SPS settings accordingly.

2. OCC decided to do the on-site inspection during 25th to 29th May, 2015 to monitor physical progress of construction work as per 29th ERPC decision and advised Sterlite to expedite the construction work.
3. On commissioning of 04 nos. 400 KV Abhijeet (CPL) bays (02 no. main bay and 02 no. tie bay) at 400 / 220 KV Ranchi Namkum Substation, OCC felt that it is a system requirement and Powergrid could be assigned to complete the work. However as there are other issues like ownership of assets etc Powergrid was advised to consult CPL and give the feedback.
4. OCC advised Powergrid to take over the 12.6km LILO portion of 400KV Farakka-Subhagram line at Sagardighi TPP completing needed formalities as per the existing regulation. Regarding 400KV SgTPP-Parulia D/C line (127kM), Powergrid informed that it is difficult to take over the line as it cannot be shown in ISTS line.

Eastern Regional Power Committee

Minutes of 108th OCC Meeting held on 17th Apr, 2015 at ERPC, Kolkata

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

Item no. A.1: Confirmation of minutes of 107th OCC meeting of ERPC held on 19.03.2015

The minutes were uploaded in ERPC website and circulated vide letter dated 27.03.15 to all the constituents. No comments were received till date.

Members may confirm the minutes.

Deliberation in the meeting

The minutes of 107th OCC Meeting is confirmed with the substitution of the following item on request from ERLDC

Item No. B.20 will now read as

“OCC felt that the beneficiary of the generator should certify the MCR test. JITPL replied that beneficiary has witnessed and certified the MCR test for 72 hours, which have been submitted to the concerned. However, CEA is asking certification from ERPC forum. It was ascertained that JITPL had conducted Maximum Continuous Rating (MCR) test for 72 hours of unit#2 (600 MW) from 02:00hrs of 04.02.2015 to 02:00 hrs of 07.02.2015. JITPL clarified that one of its beneficiaries viz. GRIDCO had accepted the COD of JITPL Unit#2.”

Members confirmed the minutes of 107th OCC Meeting with above amendment.

PART B

Item no. B.1: PLCC status installed in Eastern Region

Latest status on ownership of PLCC system is available in ERPC website.

The list discrepancies observed in the PLCC system ownership and Third Party Protection Audit is circulated in the meeting.

In line with 29th TCC decision, members may place the road map for settlement of the discrepancies.

In 106th OCC, Powergrid agreed to restore and maintain the PLCC system at both ends (its own end as well as the constituent end) of a line wherein the other ends are not being maintained by respective constituents for some reasons or others. The details of lines of similar nature was circulated in the meeting.

It was decided that the cost of restoration and maintenance of PLCC system at such (constituent) ends of the line will be borne by the respective constituents. In addition to this the constituents also agreed to extend all possible support to Powergrid in carrying out the above work.

In 107th OCC, OPTCL has submitted the list of the lines where Powergrid has to do maintenance of PLCC system.

Latest status updated in last is enclosed at **Annexure-B.1**.

Members may update the status.

Deliberation in the meeting

Powergrid raised several issues to maintain the PLCC system falling under control area of other constituents and pointed out difficulties in maintaining the same.

OCC emphasized that constituents are ready to co-operate with all needed support on cost basis and therefore rectification/maintenance of associated parts of a PLCC system like battery banks etc. would not be a problem towards proper activation of PLCC system. OCC advised Powergrid to survey the PLCC equipment for the transmission lines given at Annexure and submit the status & requirement in the next OCC.

Item no. B.2: Status of UFRs healthiness installed in Eastern Region

In 105th OCC, it was decided that constituents should check the UFR enunciation & PT fuse and thereby certify on monthly basis that UFRs are in service.

WBSETCL vide mail dated 14th Mar, 2015 confirmed that all UFR relays connected in WBSETCL system are in working condition. They have already taken a programme towards detail testing of all those relays, scheduled to be completed by March'2015. Most of the sub-stations has already been completed rest will be done within next week.

WBSETCL, CESC, BSPTCL and JUSNL have sent the certification for the month of February, 2015. OCC advised all other constituents to submit the certification on regular basis.

Certification for the month of March 2015 is yet to be received from constituents except OPTCL.

Members may update.

Deliberation in the meeting

Certification for the month of March 2015 is received from OPTCL, DVC and BSPTCL. OCC advised all other constituents to comply.

Item no. B.3: Healthiness of SPS existing in Eastern Region

OCC advised respective constituents to check the SPS on monthly basis and submit the healthiness certification.

In 107th OCC, detailed procedure of SPS simulated testing was discussed again and OCC reiterated that the SPS checking should be done as per the procedure decided in 105th OCC meeting, which is as given below:

Constituents should certify the healthiness of SPS in every OCC meeting, after carrying out simulated checking of SPS on the following aspects:

- Testing of all logical conditions that are expected to actuate/ trigger the SPS (through CT secondary injection / application of suitable digital input signal etc.)
- Testing the healthiness of all power supplies necessary for the SPS action
- Testing healthiness of all communication channels for signal transmission (both inputs to and outputs from the SPS)

However, where the SPS action is expected to trip / reduce generation of a generator, the concerned input to the generator DCS would be kept disabled and only availability of SPS signal would be checked. As an evidence of successful testing, PLCC counter readings and snapshot of station SCADA may be provided.

All constituents agreed to check the SPS system under their control area and submit the healthiness certificate on monthly basis.

But the response from the constituents is still awaited.

Members may update.

Deliberation in the meeting

Certification received only from Chuzachen HEP. OCC advised concern constituents to submit the certification on monthly basis.

Item no. B.4: Repeated Unsuccessful backing down at GMR and JITPL on tripping of one pole of HVDC Talcher-Kolar Pole-II Bipole.

HVDC Talcher-Kolar Pole -1 tripped at 19:30hrs of 30/03/15 due to ESOF operation. However, there was no generation backing down at GMR and JITPL on SPS action and backing down occurred at Sterlite, Jharsuguda only. It may be noted that, as per the existing SPS scheme, Sterlite, GMR and JITPL would share 600MW generation relief (350MW for Sterlite, 150MW for GMR and 100MW for JITPL) through SPS in case of single/double pole tripping of HVDC Talcher-Kolar. However, past record indicates that, SPS at JITPL and GMR had failed to operate repeatedly on single/double pole tripping at HVDC Talcher-Kolar. Similarly, on 16/12/14 and again on 09/02/15 there was no backing down of generation at JITPL/GMR on tripping of one Pole of HVDC Talcher-Kolar.

A similar occurrence of no backing down of generation at GMR/JITPL on tripping of HVDC Talcher-Kolar Pole-II again occurred on 09/04/15 at 12:04Hrs.

JITPL and GMR may confirm regarding the receipt of requisite signal and the reason for repeated failure in backing down of generation at their ends on SPS operation.

Powergrid may confirm regarding successful generation and transmission of SPS signal to GMR/JITPL ends.

ERPC vide letter dated 01.04.2015 has requested GMR and JITPL to submit a detailed report for non-operation of SPS on 31.03.2015 at their end. Powergrid was also requested to submit a report regarding operation of SPS at their end for successful generation and transmission of SPS signal to GMR and JITPL.

In reply, GMR vide letter dated 04.04.15 informed that they have checked the SPS scheme thoroughly and found no flaw in it. They have downloaded the recorded data of PLCC of GMR-Angul line and found that both the lines have not received the SPS signal from Angul end and also at Angul end the SPS signal was not received from Talcher PLCC (NTPC end).

Further, they had a joint meeting with Powergrid and they concluded that on 9th April, 2015 the transmission of signal from Angul to GMR will be checked by keeping the logic of load reduction in forced condition at GMR end.

Report from JITPL and Powergrid is still awaited.

Powergrid, GMR and JITPL may update with support of DR/EL outputs.

Deliberation in the meeting

ERLDC informed that only Sterlite generators have given the relief of around 230MW during HVDC pole-1 tripping at 19:30hrs of 30/03/15.

GMR informed that signal was not received from HVDC Talcher. OCC advised Powergrid to check healthiness of PLCC system of 400kV Talcher-Angul line and also the SPS system.

Powergrid agreed to check and submit the report.

ERLDC informed that since JITPL unit#2 (600MW) was declared COD on 12th February, 2015 the generation relief on HVDC Talcher-Kolar pole tripping should be reviewed.

OCC decided that from now on-wards the generation relief during HVDC Talcher-Kolar pole tripping will be shared among GMR, Sterlite & JITPL as follows:

GMR	200MW
Sterlite	200MW
JITPL	200MW

OCC advised all the three generators to revise the SPS settings accordingly.

Item no. B.5: New Islanding Schemes in Eastern Region

B.5.1. FSTPS Islanding Scheme, NTPC

98th OCC recommended following:

- 1) Procurement of new PLCC panels for Lalmatia, Dumka and Farakka S/s
- 2) Procurement of two sets of 300 AH battery banks along with battery charger for Dumka and Lalmatia S/s as decided in 94th OCC.

In 100th OCC, Powergrid informed that the estimate of Rs. 53,10, 526/- has already been sent to JSEB and requested JSEB to release the amount as early as possible.

In 105th OCC, Powergrid informed that they are yet to receive payment from JUSNL. Powergrid also informed that LOA is to be awarded for batteries and PLCC equipment and without this receipt from JUSNL awarding LOA would be difficult.

In 29th TCC/ERPC meeting, JUSNL informed that approval of the fund was delayed due to Election, change of CMD and other administrative problems. JUSNL however assured that payment will be made by 31st March, 2015. Powergrid informed that they would take around 6 months for implementation after receiving payment from JUSNL.

NTPC informed that implementation of the NTPC part will be commissioned by April, 2015.

In 106th OCC, JUSNL informed that payment will be made to Powergrid by 31st March, 2015.

In 107th OCC, JUSNL informed that the payment has been approved by their board and the payment will be made to Powergrid by end of March, 2015.

Powergrid/ JUSNL may update the status.

Deliberation in the meeting

NTPC informed that implementation of the NTPC part will be completed by May, 2015.

JUSNL informed that the payment will be made to Powergrid by end of April, 2015.

B.5.2. Chandrapura TPS Islanding Scheme, DVC

In 29th TCC/ERPC meeting, DVC informed that material will reach to the site by March, 2015 and the islanding scheme will be implemented by April, 2015.

In 106th OCC, DVC informed that the islanding scheme will be implemented by April, 2015.

In 107th OCC, DVC informed that material has been reached to the site and cable laying is completed. The islanding scheme will be implemented by April, 2015.

DVC may update the status.

Deliberation in the meeting

DVC informed that material has been reached to the site and cable laying is completed. The islanding scheme will be implemented by May, 2015.

B.5.3. BKTPS Islanding Scheme, WBPDCCL

In 107th OCC, representative from BKTPS, WBPDCCL has delivered a presentation on technical details of BKTPS islanding scheme and confirmed its commissioning.

OCC advised WBPDCCL to put the islanding scheme in service with present under frequency setting. The settings will be reviewed in ERPC forum at later stages, if required based on experience. OCC also advised WBPDCCL to give an intimation to ERPC/ERLDC after putting the islanding scheme in service.

WBSETCL vide letter dated 02.04.2015 informed that the Bakreshwar Islanding Scheme has been successfully put into the service at BKTPP end on 31.03.2015.

Members may note.

Deliberation in the meeting

Members noted.

B.5.4. Tata Power Islanding Scheme, Haldia

In 29th TCC/ERPC meeting, WBSETCL informed that Tata Power Islanding Scheme, Haldia has been commissioned on 11th February, 2015.

In 106th OCC, OCC requested WBSETCL to share their experience on implementation of Tata Power islanding scheme for the benefit of constituents.

WBSETCL agreed.

In 107th OCC, WBSETCL informed that Tata Power representative would present their islanding scheme in next OCC meeting.

WBSETCL/Tata Power may present.

Deliberation in the meeting

*Representative from Tata Power has delivered a presentation on technical details of Haldia, Tata Power Islanding scheme. Presentation is enclosed at **Annexure-B.5.4**. WBSETCL informed that the islanding scheme was commissioned but not yet put in service.*

OCC advised WBSETCL/Tata Power to put the islanding scheme in service.

OCC appreciated WBSETCL and Tata Power efforts and congratulated Tata Power for successful implementation of the islanding scheme.

Item no. B.6: Status of “Third Party Protection Audit”

List of the observations in 1st third party audit along with updated compliances received from the constituents are available in ERPC website (www.erpc.gov.in).

The format for data collection to initiate 2nd Third Party Protection Audit is circulated to constituents and also made available in ERPC website. All constituents requested to send requisite information by 16th March, 2015. On site inspection of 2nd Third Party Protection Audit will commence after receiving the data.

In 106th OCC, all constituents were advised to send the requisite data as per the format available at ERPC website. Constituents agreed.

The requisite data from few substations of Odisha, BSPTCL and WBPDCCL have been received.

In 107th OCC, members agreed to start 2nd Third party Protection audit from the month of May, 2015 with the check lists already designed and modified by ERPC in line with recommendation of the Task Force Committee. It was decided that relevant information as per data format already circulated may be collected during actual visit of audit team.

All constituents were requested to co-operate.

The audit plan is attached at **Annexure- B.6** for finalization and further action.

Members may update.

Deliberation in the meeting

The house was informed that as decided 30th PCC Meeting held on 16.4.15 the 2nd Third Party Protection Audit of ER will be commenced from June, 2015.

Item no. B.7: Concerned members may update the latest status.

B.7.1. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In 107th OCC, members were informed that till date there is no physical progress of the construction work. Accordingly, OCC advised Sterlite to initiate the physical construction work. Sterlite agreed to expedite.

Thereafter, Sterlite has submitted the latest status on the progress, which is enclosed at **Annexure-B.7.1**.

Sterlite and Powergrid may further update.

Deliberation in the meeting

OCC decided to do the on-site inspection during 25th to 29th May, 2015 to monitor physical progress of construction work as per 29th ERPC decision and advised Sterlite to expedite the construction work.

B.7.2. Implementation of double bus scheme and commissioning of remaining tie/main breakers at Angul S/S.

In 106th OCC, Powergrid informed the status of bus configuration at 400kV Angul Substation is as follows:

- i. 400kV GMR bays (2 nos): Done on 21.12.2014
- ii. 400kV GMR-JITPL ties (2 nos) : Done on 21.12.2014
- iii. 400kV ICT-I & II bays: Done on 21.12.2014
- iv. 400kV ICT-III & IV bays and 400kV Monnet bays (2 nos): Subjected to Shutdown clearance

In 107th OCC, Powergrid informed that 400kV ICT-III part will be completed by March, 2015 and ICT-IV not yet reached to the site & the same is expected by June, 2015.

Powergrid may update.

Deliberation in the meeting

Powergrid updated the status as follows:

- i. 400kV GMR bays (2 nos): Done
- ii. 400kV GMR-JITPL ties (2 nos) : Done
- iii. 400kV ICT-I & IV : Commissioned and in service
- iv. 400kV ICT-II : Testing is going on
- v. 400kV ICT-III : Not yet reached to the site
- vi. 400kV ICT-III bay and 400kV Monnet bays (2 nos): Under commissioning

B.7.3. Status of 400 kV GMR- Angul D/C line.

It was informed that Powergrid-HVDC vide a letter to GMR pointed out insufficient clearance of GMR line with Talcher-Meramundali line because of sag.

In 106th OCC, GMR informed that the clearance of GMR line with Talcher-Meramundali line is about 7 meters, which is sufficient.

OCC advised Powergrid and GMR to visit the site jointly and report in the next OCC.

In 107th OCC, Powergrid and GMR agreed for the joint site-inspection on 24th March, 2015. OCC advised to report the outcome to ERPC Secretariat on completion of the joint visit.

GMR and Powergrid may update the status.

Deliberation in the meeting

Powergrid reported that joint inspection was done and it was observed that tower falling distance was not maintained as per drawing. Powergrid informed that GMR representative was not signing the report henceforth the report was not submitted to ERPC.

OCC advised Powergrid to submit a report with its findings.

B.7.4. Status of construction of Chuzachen bay at Rangpo S/s.

In 29th TCC Meeting, Sikkim informed that they will send the proposal to Powergrid for consultancy.

Sikkim may update.

Deliberation in the meeting

Sikkim representative was not available in the meeting.

B.7.5. Status of 80MVAR Line reactor of 400kV Meramundali-Angul at Meramundali

In 29th TCC/ERPC meeting, OPTCL & Powergrid informed that the reactor has been charged on 12th February, 2015.

In 106th OCC, it was informed that the issue has been deliberated in 28th PCC held wherein OPTCL informed that the reactor was out of service because of non availability of LA. OPTCL was advised to charge the reactor by arranging LA from some other line presently not in operation.

In 107th OCC, OPTCL and Powergrid informed that LA has been arranged and testing is going on. OPTCL and Powergrid assured that the reactor will be charged within 2 days.

Subsequently, ERLDC informed that the line reactor was taken into service on 08/04/15.

Members may note.

Deliberation in the meeting

In 30th PCC meeting held on 16.4.15, OPTCL informed that the 80 MVAR Reactor was charged but the reactor was hand tripped on 10/04/2015 at 09:14 hrs as the WTI temp reached more than 90°C. Prior to that alarm had come before one hour @ 85° C.

OCC advised OPTCL and Powergrid to rectify the problem and charge the reactor immediately.

ERLDC informed that OPTCL did not intimated while taking the reactor out of service.

OCC advised OPTCL to intimate ERLDC while doing any switching operations in 400kV system.

OPTCL agreed to take care in future.

B.7.6. Non availability of important bays at FSTPP end

In 107th OCC, FSTPP, NTPC informed the status of remaining 400kV CBs at 400kV FSTPP S/s as follows:

- a) Main bay of FSTPP-Sagardighi at FSTPP end : Completed
- b) Bay connecting FSTPP-Malda-II to Bus-II which is under outage since disturbance at FSTPP on 28/08/14 (Bay connecting to Bus-I in service): Work has been completed but not charged. NTPC informed that the CB will be charged by tomorrow (i.e. 20.03.2015).
- c) FSTPP-KhSTPP-IV Tie bay : Work has been completed but not charged. NTPC informed that they required shutdown for charging the Tie bay. OCC advised NTPC to charge the Tie bay in coordination with ERLDC.

NTPC may update.

Deliberation in the meeting

FSTPP, NTPC informed the status of remaining 400kV CBs at 400kV FSTPP S/s as follows:

- a) Main bay of FSTPP-Sagardighi at FSTPP end : *Completed*
- b) Bay connecting FSTPP-Malda-II to Bus-II which is under outage since disturbance at FSTPP on 28/08/14 (Bay connecting to Bus-I in service): *Completed.*
- c) FSTPP-KhSTPP-IV Tie bay : *Work has been completed and it will be charged by end of April, 2015.*

B.7.7. 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG) S/s

400/220 kV, 2X 315 MVA S/S at Bolangir has been established by Powergrid as part of ISTS system & the following 220 kV interconnecting lines was envisaged to be established by OPTCL:

- (i) LILO of OPTCL's Katapalli-Bolangir line at Bolangir (PG).
- (ii) Bolangir(PG) –Bolangir (OPTCL) S/C line.
- (iii) Bolangir(PG) –Kesinga S/C line.

In 107th OCC, OPTCL updated the status as follows:

- (i) LILO of OPTCL's Burla (Katapalli)-Bolangir line at Bolangir (PG)- By April' 2015
- (ii) 220 kV Bolangir(OPTCL)- Bolangir (PG) S/C line, which is a part of proposed Bolangir-Kesinga D/C line with one ckt LILO at Bolangir (PG)- Getting delayed due to land disputes.
- (iii) Bolangir(PG) –Kesinga S/C line —Tender opened and completion schedule is not yet finalized.

Further, OCC advised OPTCL to plan other alternatives for SI No. (ii) & (iii) as these were getting delayed due to land disputes.

OPTCL agreed to explore other alternatives in their internal Co-ordination meetings.

OPTCL may update the status.

Deliberation in the meeting

OPTCL updated the status as follows:

- (i) *LILO of OPTCL's Burla (Katapalli)-Bolangir line at Bolangir (PG)- By May 2015*
- (ii) *220 kV Bolangir(OPTCL)- Bolangir (PG) S/C line, which is a part of proposed Bolangir-Kesinga D/C line with one ckt LILO at Bolangir (PG)- Getting delayed due to land disputes.*
- (iii) *Bolangir(PG) –Kesinga S/C line —Tender opened and completion schedule is not yet finalized.*

OPTCL informed that a meeting will be held in April, 2015 with GRIDCO and construction wing to discuss the alternative arrangement for sl no. (ii) and (iii) of above.

B.7.8. Augmentation of Transformation Capacity in PGCIL Grid S/s at Muzaffarpur, Purnea, Sampatchak(Patna) & Sasaram-- BSPHCL

In 107th OCC, Powergrid updated the status as follows,

- Augmentation of additional 500MVA, 400/220kV ICT at Muzaffarpur: The order was placed on 20th October, 2014 for augmentation of transformation capacity and it will take 18-24 months for completion.
- Replacement of 2x315MVA, 400/220kV ICTs at Sampatchak(Patna) & Sasaram by 2x500MVA ICTs: will be completed by January, 2016.
- Replacement of 400/220kV ICTs at Purnea by 2x500MVA ICTs: One ICT will be commissioned by July, 2015 and the other one will be completed by December, 2015.

Powergrid may update the status.

Deliberation in the meeting

Powergrid informed that the work will be completed as per above schedule.

B.7.9. Synchronization of 132 kV Dalkhola (WB)-Kishanganj(BSPTCL) S/C

In 106th OCC, WBSETCL informed that the line is ready charging but SEM is not working properly.

OCC advised Powergrid to replace the meter immediately. Powergrid agreed.

In 107th OCC, WBSETCL informed that new SEM has been installed however, CT and PT connections are yet to be done.

OCC advised WBSETCL and Powergrid to coordinate and complete the work within a week.

WBSETCL/Powergrid may update the status.

Deliberation in the meeting

WBSETCL informed that the line is ready for charging. OCC advised to charge the line in radial mode in coordination with BSPTCL.

B.7.10. Time drift in SEMs of FSTPS GT meters

Farakka, NTPC informed vide letter dated 07.01.2015, time drift of SEMs of GT-1, 2, 3, 4 & 5 of their station has reached to 8 minutes. All these meters are of 7 series meters. Besides this, few SEM meters of installed in following lines are also getting stalled/inoperative from last few months,

- Farakka-Sagardighi (Main-NP 5213-A)
- Farakka-Berhampore (Main-NP 5221-A)
- Farakka-Kahalgaon-2 (Main-NP 5200-A)
- GT-6 (NP 5216-A)

In 107th OCC, Powergrid informed that two new SEMs will be handed over to NTPC, Farakka by today evening to replace the meters and rest of the time drifted SEMs will be replaced within two days.

OCC advised Powergrid to replace the SEMs having time drift more than 5 min.

Powergrid agreed.

PGCIL may update.

Deliberation in the meeting

Powergrid informed that the following meters are in operation and reporting to ERLDC:

- Farakka-Sagardighi (Main-NP 5213-A)
- Farakka-Berhampore (Main-NP 5221-A)
- Farakka-Kahalgaon-2 (Main-NP 5200-A)
- GT-6 (NP 5216-A)

Powergrid informed that 5 more SEMs are handed over to Farakka, NTPC. NTPC requested Powergrid to install the meters. Powergrid agreed.

B.7.11. Commissioning of Ind-Bharath to Jharsuguda D/C(dedicated line)

In the last OCC, Ind-Bharath has communicated the status as follows:

- 104 towers out of total 125 towers have been completed. A minor change in the existing alignment for erection of towers has now been made to avoid some portion of forest land. Hence completion of construction of the line may take some time.
- Dedicated ATS to 765/400kV Sundergarh line will be completed by April, 2015.
- LC for drawal of enhance startup power has been opened.

Ind-Bharath may update.

Deliberation in the meeting

*Ind-Bharat communicated that they will bring their dedicated ATS within the schedule. The latest status received from Ind-Bharat is enclosed in **Annexure-B.7.11**.*

B.7.12. Status of construction of 132kV Banka-Deoghar line

In 106th OCC, it was informed that Gazette notification not yet come for construction of this line and actual status is to be confirmed from CEA.

Subsequently, SP&PA, CEA vide letter dated 24.03.15 informed that the 132 kV Banka-Deoghar line being an inter-state line and would be implemented through Tariff Based Competitive Bidding (TBCB). It would be taken up as one of agenda item in next Empowered Committee on Transmission to be held shortly.

Members may note.

Deliberation in the meeting

Members noted.

Item no. B.8: Charges for oil sample test in PGCIL testing Lab-- BSPTCL

BSPTCL informed that, PGCIL is taking charges for oil sample tests. BSPTCL opined that PGCIL testing lab as well as its land is capitalized by PGCIL and it is included in Transmission tariff or in O&M head. Therefore, PGCIL should not charge BSPTCL for oil sample tests.

The issue was discussed in 106th OCC meeting wherein Powergrid was requested to look into the matter.

Powergrid informed that they will revert back after consulting with their HQ.

Powergrid may update the status.

Deliberation in the meeting

BSPTCL informed that even though capital cost of testing lab of PGCIL was getting recovered through tariff components from beneficiary constituents of CTU, PGCIL for oil sample testing etc, is still charging beneficiaries same rates as is being charged from third party costumers. Since they had contributed the capital cost, BSPTCL requested for favorable differential charges.

Powergrid informed that they will revert back after consulting with their HQ.

Item no. B.9: Commissioning of 04 nos. 400 KV Abhijeet (CPL) bays (02 no. main bay and 02 no. tie bay) at 400 / 220 KV Ranchi Namkum Substation-- Powergrid

04 nos. 400 KV bays (02.nos. main bay and 02 nos. tie bay) at Ranchi, Namkum substation was allocated for construction to M/s Corporate Power Limited in 2008 for evacuation of power from their 1215 MW Coal based Thermal Power Plant being constructed in Latehar district of Jharkhand. The commissioning of the said bays had not been completed due to financial bankruptcy of M/s Corporate Power Ltd.

400 KV Ranchi- New Ranchi-I & II are connected in same dia of the bay allocated to M/s CPL (Single line diagram is enclosed) at Ranchi Namkum Substation. Due to non commissioning of CPL bays, Ranchi- I & II have been charged only through main bay at Ranchi, Namkum Substation. In case of any eventuality, there will be no back up for Ranchi- I & II lines. Hence commissioning of CPL bays at Ranchi Namkum substation is very much required in order to maintain the system reliability. The matter has also been raised in 29th PCC meeting held on 20.03.2015.

Therefore, it is proposed that the said CPL bays may be commissioned by POWERGRID and cost may be booked in any of the ongoing project of Eastern Region-I. The expected total financial implication for commissioning of said bays comes to approx Rs. 50 lakhs.

Member may deliberate and decide.

Deliberation in the meeting

After detailed deliberation, OCC felt that it is a system requirement and Powergrid could be assigned to complete the work. However as there are other issues like ownership of assets etc Powergrid was advised to consult CPL and give the feedback.

Item no. B.10: Up-gradation of 400 kV Bay from 2000 Amp to 3150 Amp rating at Malda & Farakka -- Powergrid

The up-gradation of both the bays of 400 kV Malda-Farakka lines have been approved by ERPC and is being taken up by Powergrid under ERSS-XIII. The materials required for up-gradation of Bays, reached at Malda and Farakka stations and erection teams has also been mobilized. As per approved schedule, the proposed work to be complied within June, 2015.

Powergrid is planning to replace the equipment of following bays immediately:

- 1) Bay no. 12 at Farakka (Main bay of ICT)
- 2) Bay no. 32 at Farakka (Bay of Malda-Farakka- II parallel Breaker)
- 3) 40452 bay at Malda (CB of Farakka-II)

Powergrid requested for shutdown of the above equipment/Bay for a period of 30 days for up-gradation work.

Members may accord the shutdown.

Deliberation in the meeting

Powergrid informed that 400kV Malda-Farakka line shutdown is required for one day and the line will be charged on single bus during the up gradation work. WBSETCL agreed to the line shutdown after 28th April, 2015.

Item no. B.11: Handing over of 400 kV LILO of Farakka-Subhasgram at SgTPP & 400 kV D/C SgTPP- Parulia line -- WBDCL

WBDCL vide letter dated 10.04.2015 informed that as per deliberation of 97th OCC meeting series of communication with PGCIL & WBSETCL i.r.o handing over of lines & bays of SgTPP had been done. But WBDCL has not received any positive response either from PGCIL or from WBSETCL as of now.

WBDCL once again reiterated that following reasons for handing over the lines and bays:

- i) WBDCL is a generating company, have no infrastructural facilities or expertise in respect to transmission line maintenance.
- ii) Since commissioning, M/s PGCIL have been carrying out the AMC of these lines and bays.
- iii) Power evacuation feeders from SgTPP in mostly terminating at the PGCIL substation.
- iv) Sagardighi TPP under WBDCL is one of the prime source for transferring power to Bangladesh
- v) Evacuation failure due to lack of maintenance of these lines may lead to destabilize the power system n/w in that region.

WBDCL requested ERPC forum to consider proposal for taking over of elements as given below in proper perspective and importance for the interest of healthy functioning of transmission system in that region.

- I. 400kv LILO line (12.6KM) at Sagardighi TPP of the original Farakka-Subhasgram line.
- II. 400KV D/C SgTPP-Parulia line (127km) & its bays at Parulia end.

Members may opine.

Deliberation in the meeting

In respect of LILO line (12.6KM) at Sagardighi TPP WBDCL informed that being a generator it has no expertise in maintenance of transmission line. It was further expressed that except LILO portion 400 KV Farakka-Subhagram line is being maintained by CTU including bay equipments at both ends. So WBDCL proposed to handover the maintenance of the LILO portion of the said line to powergrid with transfer of ownership to PGIL.

OCC felt that since both the ends of the LILO portion of 400 KV Farakka-Subhagram line is connected to central sector, the LILO portion can be converted into a ISTS line. OCC advised Powergrid to take over the 12.6km LILO portion at Sagardighi TPP completing needed formalities as per the existing regulation.

Regarding 400KV SgTPP-Parulia D/C line (127km), Powergrid informed that it is difficult to take over the line as it cannot be shown in ISTS line.

OCC advised WBDCL to discuss with WBSETCL.

OCC advised WBDCL and Powergrid to continue the present system of maintenance for both the lines till final decision.

Item no. B.12: Future requirement of Special Energy Meters and DCDs ---Powergrid

The requirement of frequency based ABT Special type meters up to 2014 has been procured by POWERGRID and likely to be exhausted shortly. Beneficiary Constituents of ER are requested for assessment of their requirement of Special Type Energy Meters and DCDs for the period

from 2015 to 2017 and intimate the same in the next OCC meeting so that the advance action for procurement can be taken.

In 106th OCC, ERLDC informed that they will submit the list of requirement in next OCC.

OCC advised all constituents to submit the details of additional requirement of SEMs and DCDs , if any, by next OCC. Consolidated list will be placed in next OCC.

Subsequently, ERLDC has prepared an exhaustive list of SEMs that would be required to be procured considering upcoming various generating projects and their associated transmission lines in Eastern region up to 2017-18. The new Special Energy meter would be capable of frequency measurement with a step size of 0.01 Hz. is to be procured considering the recent change in regulation. The procurement of DCDs may also be done accordingly.

Constituents may assess their requirement of SEMs and DCDs for the period from 2015 to 2018 and intimate the same to the OCC.

In 107th OCC, all constituents were advised to check the list of SEMs and send the requisition for SEMs which is not included the list. OCC decided to finalize the list in next OCC meeting.

Members may update.

Deliberation in the meeting

ERLDC informed that constituents had not yet given their requisition. OCC advised all the constituents to give their SEMs and DCDs requirement to ERLDC.

In 107th OCC, OPTCL informed that the following DCDs in their control area are not working properly and requested change the DCDs:

SI No.	Make	Serial No.
1.	PSION	PGDCD161
2.	L&T	11122068
3.	L&T	11122071
4.	L&T	11122076
5.	L&T	07120455
6.	L&T	07120465
7.	L&T	11122083

OCC advised Powergrid to do the needful.

Powergrid may update.

Deliberation in the meeting

OCC advised OPTCL to hand over the defective DCDs to Powergrid and Powergrid will give new DCDs.

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.

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. (Item No. B9 of 84th OCC meeting)

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

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

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

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

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

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: Data of Peak Demand

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. A format for sending the data of hourly scheduled and unscheduled power-cuts / load shedding is attached at **Annexure- B.16**.

POSOCO and all constituents may note and comply.

Deliberation in the meeting

DVC has submitted the data. OCC advised all constituents to submit the data on first week of every month. All constituents agreed.

Item no. B.17: Restricted Governor Mode of Operation

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

Members may update.

Deliberation in the meeting

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.

Item no. B.18: Pollution mapping for Eastern Region

In 105th OCC, Powergrid informed that the Instrument Kits for measurement related to Pollution Mapping were already dispatched to the constituents. Powergrid requested to commence the first set of Pollution measurements by second week of February, 2015 and communicate the results. The format for filling up the results is already available in ERPC website.

The issue was discussed in 29th TCC Meeting, wherein JUSNL expressed certain difficulties in receiving the kits from dispatcher. TCC advised Powergrid to look into. Powergrid agreed.

In 106th OCC, JUSNL informed that they have received the Pollution Mapping test kit. Powergrid confirmed that the Pollution Measurement would start in schedule.

In 107th OCC, Powergrid informed that pollution measurement would start from 1st April, 2015.

OCC advised Powergrid to give updated status of Pollution mapping in every OCC.

Powergrid vide mail dated 6th April, 2015 informed that pollution measurement kits have been received by all STUs and POWERGRID S/s as on date.

PGCIL informed that First Set of Pollution Measurement is scheduled to be commenced by 1st April 2015. Constituents were requested to complete the "First set of pollution measurement" by 15th April 2015 and to communicate measurement results to the ERPC, POWERGRID and CPRI in prescribed format (available at ERPC website; www.erpc.gov.in).

Measurements Results shall be filled in attached prescribed format and send it to the following:

Sr No	Email ID	Coordinator Detail	Utility
1	vasu@cpri.in	Dr N Vasudev, Additional Joint Director, HV & Power System Divisions, Central Power Research Institute, P. B. No. 8066, Prof C V Raman Road, Bangalore – 560 080	Central Power Research Institute (CPRI)
2	rajeshos@powergridindia.com , rvskush@rediffmail.com tlrhqpatna@gmail.com neerajpgcil@gmail.com sksinghpg@yahoo.co.in	Mr S K Singh, DGM (OS), ERTS-1, Regional Head Quarters, 2nd, 5th & 6th Floors, Alankar Place, Boring Road, Patna - 800001, Bihar	POWERGRID-ER1
3	jiten@powergridindia.com , erts2os@gmail.com , spdashpg@gmail.com	Jiten Das-Asst. GM(OS) ERTS-2, Regional Head Quarters, J-1-15, EP-Block, Sector-V, Salt Lake, Kolkata - 700091, West Bengal	POWERGRID-ER2
4	spdashpg@gmail.com	Mr S P Dash DGM, ODISHA PROJECTS, PLOT NO. 27, SAHID NAGAR, BHUBANESWAR-751007, ODISHA STD CODE : 0674, FAX : 2548324, ODISHA	POWERGRID-ODISHA PROJECTS
5	eeps.erpc@gov.in,	Mr. G Rao, AEE, Eastern Regional Power Committee, 14, Golf Club Road, Tollygunje, Kolkata-700033	Eastern Regional Power Committee (ERPC)
6	sbrao@powergridindia.com bnvrc@powergridindia.com umesh.sen@powergridindia.com	Mr BNVR Suresh Kumar, Asst GM (TD), Corporate Center, POWERGRID, Saudamini, Plot No. 2, Sector-29, Gurgaon 122001	POWERGRID- CC

Measurement procedure and prescribed format are made available at ERPC website (www.erpc.gov) for your kind reference.

Powergrid may update the status.

Deliberation in the meeting

OCC advised all constituents to take the measurements and send the results as per the format to above mail ids. All constituents agreed.

Item no. B.19: Mock Black start exercises in Eastern Region – ERLDC

i) The status of black start exercises

The details of black start exercises carried in actual for the F.Y 2014-15 vis-a-vis schedule is placed below:

Sl no	Name of Hydro Station	Schedule	Actual	Schedule	Actual
		Test-I		Test-II	
1	U.Kolab	Last week of May, 2014	3 rd June 2014	2 nd or 3 rd week of March, 2015	27 th Mar, 2015
2	Maithon	1 st week of June 2014	17 th June 2014	1 st Week of October 2014	Done on 10 th February, 2015
3	Rengali	2 nd week of June 2014	19 th September 2014	Last week of November 2014	25 th Mar, 2015
4	U. Indravati	3 rd week of June 2014	16 th December 2014	2 nd week of February 2015	Done on 10 th February, 2015
5	Subarnarekha	2 nd week of October 2014	Not done	1 st week of January 2015	Water is not available
6	Balimela	1 st week of Nov. 2014	19 th November 2014	1 st week of March 2015	Could not be done on 31/03/15 reportedly due to communication problem
7	Teesta-V	2 nd week of Nov. 2014	16 th December 2014	Last week of March, 2015	Done on 31 st Mar, 2015
8	Chuzachen	--		April, 2015	Blackstart facility commissioned on 28/03/15

The schedule of the proposed black-start exercises for F.Y 2015-16 is depicted below:

Sl no	Name of Hydro Station	Schedule	Tentative Date	Schedule	Actual	Tentative Date
		Test-I		Test-II		
1	U.Kolab	Last week of May, 2015		Last Week of January 2016		
2	Maithon	1 st week of June 2015		1 st Week of October 2015		
3	Rengali	2 nd week of June 2015		Last week of November 2015		
4	U. Indravati	3 rd week of June 2015		2 nd week of February 2016		
5	Subarnarekha	2 nd week of October 2015		1 st week of January 2016		

6	Balimela	1 st week of November 2015		1 st week of March 2016		
7	Teesta-V	2 nd week of November 2015		Last week of February 2016		
8	Chuzachen	1 st week of May, 2015		2 nd week of January, 2016		

As intimated by Chuzachen, blackstart facility has been commissioned by Chuzachen after availing the required shutdown and the same has also been partially tested vide Dead Bus charging and further idle charging of 132kV Chuzachen-Melli and 132kV Chuzachen-Rangpo lines from Chuzachen end. Hence, to fully test the commissioned blackstart facility, it is felt that Chuzachen may run with Melli or Gangtok loads in an islanded fashion. Chuzachen could also plan to extend power to Rangit for starting of Machines at Rangit and extending further. Finally synchronization at Siliguri(PG) may be done through 132kV Melli-Siliguri and 132kV Kurseong-Siliguri. Concurrence of Sikkim PDD/SLDC, WBSETCL would be required for this purpose.

Members may update.

Deliberation in the meeting

OCC advised all constituents to do the black start exercise as per the schedule and submit the report.

ii) Testing of DG sets meant for Black start

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

Constituents may kindly ensure compliance.

Deliberation in the meeting

Members noted.

Item no. B.20: Restoration of SCADA data

Updated latest status is circulated in the meeting. During deliberations in 99th OCC it was pointed out by most of the constituents that SCADA problem in many locations are due to behind the schedule progress of work on the part of CTU/PGCIL. OCC advised Powergrid/CTU to expedite and restore at least the priority RTUs by 31st July, 2014.

Updated status as updated in SCADA meeting which was held on 28th January, 2015 is circulated in the meeting.

Updated status in 107th OCC is circulated in the meeting.

CTU may update.

Deliberation in the meeting

CTU updated the latest status enclosed at Annexure-B.20.

Item no. B.21: Over-voltage settings of EHV lines in ER

Data from is pending in respect of certain newly commissioned lines from ER-I (Nabinagar), WBSETCL (Parulia/ Sagardighi), Anugul(ER-II).

In 106th OCC, the list of over voltage settings yet to be updated by the constituents is circulated in the meeting. OCC advised concern members to submit the settings to ERLDC.

In 107th OCC, members updated the list.

However, few data from WBSETCL end and Nabinagar is still awaited.

Members may update.

Deliberation in the meeting

ERLDC informed that the data has been received for all the lines except Nabinagar. OCC decided to finalize the list.

Item no. B.22: Proposal for review of PDO conditions for HVDC Gajuwaka Poles, in view of repeated tripping of lines in S. Odisha

In view of repeated trippings of EHV lines causing major disturbance in South Odisha for the past six months, ERLDC proposed to review the PDO conditions for HVDC Gajuwaka to meet the eventualities arising out of the consequences.

In 106th OCC, members appreciated the proposal and advised OPTCL to study and send their views. OPTCL agreed.

In 29th PCC, OPTCL agreed to the proposal.

ERLDC and OPTCL may update.

Deliberation in the meeting

Members noted.

Item no. B.23: Curtailment/ revision of export transaction to BPDB from retrospective effect on 06.04.2015 - WBSEDCL

WBSEDCL vide letter dated 06.04.2015 informed that an e-mail from ERLDC was received by them at 0759 Hrs on 06.04.15, wherein it was informed that export transaction to BPDB has been curtailed to the tune of 200 MW with effect from 0415 Hrs to 0830 Hrs for 06.04.15.

As the said mail has been communicated only at 0759 Hrs giving effect from 0415 Hrs of same date is against the provision of the IEGC. Such effect without any prior communication is likely to have huge commercial implications for WBSEDCL.

ERLDC and WBSEDCL may update.

Deliberation in the meeting

ERLDC and WBSEDCL informed that the issue has been resolved.

Item no. B.24: Scheduling of KBUNL-II (Kanti Bijlee Utpadan Nigam Limited)--ERLDC

KBUNL-II(2x 195MW) is a joint venture of NTPC and BSEB, and GT#3 and Unit#3 are expected to be synchronized shortly. KBUNL is connected to both CTU/STU and has GOI allocation with majority share to home state viz.BSEB. With reference to scheduling/control area jurisdiction of KBUNL-II, the following points need to be noted:

- a) KBUNL may be considered as a C.G.S with control area jurisdiction under ERLDC. However, a confirmation would be required in this respect of the plant being a C.G.S as defined in IEGC.
- b) For synchronization of GT to the Grid and drawal of start up power all necessary formats need to be filled up. The formats have been already mailed to KBUNL.
- c) Registration at ERLDC end and the requirement of being a member of ER Deviation pool account need to be fulfilled.
- d) It should be ensured that before any synchronization of GT to ER Grid, commissioning of Data and dedicated voice communication to ERLDC is put in place.
- e) Before COD of the unit and scheduling by ERLDC, KBUNL needs to sign the requisite LTA agreements with CTU in respect of the GOI share allocations.

In 107th OCC, it was informed that KBUNL is a joint venture of NTPC and BSEB wherein NTPC has a stakeholder of 55%. It was also informed that the power from KBUNL is not dedicated to Bihar only but other constituents of ER have also share allocation from KBUNL. Therefore, KBUNL will be considered as Inter- State Generating Station (ISGS) and it will be scheduled by ERLDC.

KBUNL was advised to submit their documents related to stakeholder and share allocation to ERLDC/ERPC for further proceeding towards scheduling formalities.

OCC felt that scheduling is to be done as per IEGC and with no objection from Bihar, ERLDC could schedule the KBUNL units. NTPC and Bihar were advised to do the needful in this regard.

However, till date the required documents as intimated in the last OCC meeting, have not yet been received from KBUNL.

KBUNL may intimate the reasons for delay in submission of the required documents.

KBUNL and ERLDC may update.

Deliberation in the meeting

KBUNL and ERLDC requested for modification in 107th OCC minutes pertaining to the above agenda as follows:

"It was informed that KBUNL is a subsidiary of NTPC and BSEB wherein NTPC has a stakeholder of 65% (majority stake holding) and Bihar holds 35%. It was also informed that the power from KBUNL is not dedicated to Bihar only but other constituents of ER have also share allocation from KBUNL.. It was informed that as per IEGC, 2010, Cl.6.4.2, RLDC shall coordinate the scheduling of Central Generating Stations (excluding stations where full Share is allocated to host state). As per IEGC,2010 a Central generating Station means the generating stations owned by the companies owned or controlled by the Central Government. As KBUNL has confirmed that they are a Central generating Station in the context of above, it was decided that KBUNL would be considered as an ISGS to be scheduled by RLDC subject to no objection from SLDC, Bihar. KBUNL was advised to submit the documents confirming that they are a Central Generating Station and also confirm the same vide affidavit/formal letter.

KBUNL has circulated the share allocation in the meeting, NTPC and SLDC, Bihar were advised to do the needful in this regard."

OCC agreed to the modification.

In the meeting, ERLDC requested KBUNL to submit the equity share ratio to ascertain it is a subsidiary of Central Govt. KBUNL agreed to submit the details.

KBUNL requested to convene a separate meeting with Bihar, ERLDC and ERPC for discussion on startup power.

OCC advised KBUNL to submit a proposal with relevant documents.

Item no. B.25: Long shutdown of 132 kV Rangit-Melli tie

132kV Rangit-Melli was taken under shutdown for commissioning of LILO of 132kV Rangit-Melli at Sagbari and 132kV Sagbari-Gyalshing line. Subsequently, shutdown was also availed for rectification of damaged Tower arm at Loc.79. The line is however under outage/shutdown for the past several months and the same is hampering the security of 132kV North Bengal Grid.

Sikkim may confirm the correct reasons for the present long outage of the line. Difficulty in commissioning of the LILO, if any may also be intimated with details of the approval from competent authority viz. CTU/STU for construction of the LILO. ERLDC has not yet received any first time charging documents in this regard.

Considering that the line is necessary for enhanced security of 132kV North Bengal system, Sikkim may take up for restoration of the line and commissioning of the LILO with due urgency.

Sikkim may update.

Deliberation in the meeting

Sikkim representative was not available in the meeting.

Item no. B.26: Status of 220kV PTPS-Bodhgaya T/C tie

In the weekly system performance report published by ERLDC, the status of the above line is being indicated to be under long outage.

BSPTCL and JUSNL may please inform the actual status and expected date of revival of the line. In case there is no plan for restoring the line, OCC members may please take a call for declaring the line as non-existent.

BSPTCL and JUSNL may update.

Deliberation in the meeting

BSPTCL and JUSNL agreed to update the status in next OCC meeting.

Item no. B.27: Overloading of 400KV Meramundali - Mendhasal line

The loading of 400KV Meramundali - Mendhasal line is 504 MW towards Mendhasal, out of which 56MW is flowing to Baripada P.G from Mendhasal via. 400KV Mendhasal - Baripada P.G double circuit line. Normally flow is from Baripada(PG) to Mendhasal. This reverse power flow may be over drawal by WB system. More over Reactive energy flow from Baripada PG is around 120MVAR. If we keep only one ckt of Baripada(PG)- Mendhasal, reactive energy injection to Odisha System will be reduced.

ERLDC has to take necessary action to avoid over loading of 400KV Meramundali - Mendhasal line.

OPTCL & ERLDC may update.

Deliberation in the meeting

ERLDC informed that OPTCL is not paying any reactive charges pertaining to this line.

OCC advised OPTCL to see the ERPC weekly report on reactive charges, which is available in ERPC website.

Item no. B.28: Reactive Power performance of Generators and GT tap position optimization

Following is the list of generating station where substation voltage is beyond IEGC range for most of the times. Maximum and minimum voltage was observed (data taken from SCADA)

Power Plant	Max and Min Voltage observed for Feb 15 (KV)	Date for monitoring (March 15)
Mejia-B	425,413	07,11
DSTPS	427,415	07,10,16
Adhunik TPS	427,412	04,07,09
Sterlite	426,411	03,21,17
Barh	426,409	08,16
Kolaghat TPS	425,397	16,24

ERLDC may update.

Deliberation in the meeting

ERLDC informed that the performance of the generators is satisfactory.

a) Schedule for reactive capability tests

From last many OCCs reactive capability testing of following units are pending:

- Adhunik TPS(both units)
- DSTPS(Unit#2 only pending)
- Mejia#7(only U#7 pending)&Koderma TPS(both units)
- JITPL(both units)
- Barh Unit#6

Members may decide.

Deliberation in the meeting

Members noted.

b) Optimization of GT tap position at Adhunik, Mejia-B and DSTPS

In 97th OCC, members requested ERPC Secretariat to convene a special meeting for detail deliberation on tap changing proposal before next OCC.

Accordingly, a special meeting was convened on 27th June, 2014. During the meeting following tap position was agreed:

Sl. No.	Utility	Present GT tap position	Agreed tap position in the meeting
1	APNRL: GT-1	8	9
	APNRL: GT-2	3	4
2	Mejia-B, DVC	4	5
3	DSTPS, DVC	5	6

Subsequently, DVC vide mail dated 3rd July, 2014 informed that GT tap position of MTPS units U#7&8 has been changed from Tap no. 4 to Tap no. 5.

In 101st OCC, ERLDC informed that MPL should also reduce the GT tap from tap position 5 to 6. MPL informed that they will confirm in the next OCC.

In 102nd OCC, APNRL informed that they have changed the GT tap position of both the GTs as per agreed settings.

DVC vide letter No.LD/25/ERPC/640 dated 03.01.2015 informed that the tap position of DSTPS GT #1 was changed from 5 to 6.

ERLDC assured that they will take care of the voltage problem during synchronization of their generator and advised to change the GT tap position.

In 103rd OCC, MPL informed that they need clear cut written communication from ERLDC that during synchronization of their generators what actions they need to take.

ERLDC once again assured that they will take care of the high voltage during synchronization of the generators.

Since the deliberations are already noted in the minutes of special meeting of GT tap, OCC felt no separate written communication is required and advised MPL to change the tap position. MPL agreed.

In 107th OCC, MPL was advised to change the tap position immediately.

ERLDC and MPL may update the status.

Deliberation in the meeting

MPL was advised to change the tap position immediately.

PART C:: OPERATIONAL PLANNING

Item no. C.1: Shutdown proposal of transmission lines and generating units for the month of May' 15

Members may also finalize the Shutdown proposals of the generating stations and transmission lines for the month of May' 15 is circulated in the meeting.

ERLDC may place.

Powerlinks vide letter dated 09.04.15 has informed that they required shutdown of 400 KV Purnea-Muzaffarpur ckt- I from 29.04.15 to 13.05.15 on daily basis (09:00 hrs to 17: Hrs) for replacement of 160 KN insulators by polymer insulators.

Members may update.

Deliberation in the meeting

*Approved maintenance programme of generators and transmission elements for the month of May, 2015 is at **Annexure-C.1**.*

Item no. C.2: Anticipated power supply position during May'15

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of May'15 were prepared by ERPC Secretariat on the basis of Provisional LGBR for 2015-16, keeping in view that the units are available for generation and expected load growth etc. is circulated in the meeting.

Members may confirm.

Deliberation in the meeting

*Modified anticipated power supply position for the month of May, 2015 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)	DATE	REASONS FOR OUTAGE	Date of restoration
MEJIA	1	210	02.01.15	LESS DEMAND	
MEJIA	2	210	24.02.15	LESS DEMAND	
MEJIA	4	210	09.11.14	LESS DEMAND	
BOKARO 'B'	1	210	21.02.15	TUBE LEAKAGE	
CHANDRAPURA	8	250	23.01.15	STATOR EARTH FAULT	
KODERMA	1	500	12.11.14	LESS DEMAND	
KOLAGHAT	4	210	05.04.15	MAINTAINANCE	
WARIA	4	210	25.04.15	COAL SHORTAGE	
DSTPS	2	500	01.12.14	LESS DEMAND	
BANDEL	5	210	16.11.13	MAINTENANCE	
JITPL	1	600	09.04.15	PLANNED MAINTAINANCE	
KAHALGAON	4	210	03.04.15	ANNUAL OVERHAULING	
FARAKKA	6	500	06.04.15	ANNUAL OVERHAULING	
DPL	8	250	29.03.15	LESS DEMAND	
BARH	4	660	01.04.15	PLANNED MAINTENANCE	
BOKARO-B	2	210	06.04.15	AUXILLIARY POWER	

(ii) Transmission elements

Name of the Line/Element	Outage	Reason	Date of restoration
220 KV BALIMELA - U' SILERU	08.01.15	LINE IDLE CHARGED FROM UPPER SILERU END AT 19:20 HRS OF 08.01.15	
400 KV TALA-BINAGURI-I	23.03.15	SHUTDOWN AVAILED BY TALA	

Members may update.

Deliberation in the meeting

Members noted.

Item no. C.4: Information regarding commissioning of new transmission element

1. NTPC Barh Unit-V (660 MW) was synchronized for the first time at 15:10hrs of 01/03/15. However, the said unit tripped on the same day at 15:11hrs on Turbine protection alarm. Subsequently Unit-V was again synchronized at 19:55hrs of 04/03/15, but the unit tripped on the same day at 21:20hrs on Economizer feed low protection.
2. 400kV, 125 MVA Bus Reactor-II at Muzaffarpur was charged for the first time at 13:59hrs of 03/03/15.
3. 400kV GMR-Meramundali line was idle charged for the first time from Meramundali end at 13:40hrs of 18/03/15. Subsequently GMR Unit-III was shifted to Meramundali through 400kV GMR-Meramundali line for the first time at 21:11hrs of 18/03/15.
4. 3*500 MVA, 765/400kV ICT-IV at Angul was charged for the first time at 16:15hrs of 24/03/15. Subsequently 3*80 MVA L/R of 765kV Angul-Jharsuguda at Angul was charged for the first time at 19:02hrs of 24/03/15.
5. 765kV Angul-Jharsuguda-II was charged for the first time at 00:30hrs of 29/03/15, but the line tripped immediately on SOTF. Subsequently two attempts for charging the line were taken at 13:02hrs and 18:34hrs on the 29/03/15, but on both occasions, the line tripped immediately on SOTF. 765kV Jharsuguda-Angul-II was finally taken into service at 15:41hrs of 30/03/15.
6. 400kV, 125 MVA B/R at Biharsharif was charged for the first time at 15:40hrs of 28/03/15.
7. 765kV, 330 MVA B/R-II at Angul was charged for the first time at 16:53hrs of 28/03/15.
8. 621 MVA, 400/21 kV, GT-III at Sagardighi was back charged for the first time on no load at 17:46hrs of 28/03/15.
9. 500 MW, Bokaro A Unit-I was synchronized for the first time at 22:51hrs of 31/03/15. However, the unit was desynchronized at 22:58hrs on the same day with maximum generation of around 40MW.
10. 500 MW, Sagardighi Unit-III was synchronized for the first time at 16:54hrs of 31/03/15. However, the unit was desynchronized at 16:57hrs on the same day with a maximum generation of 24MW.
11. 132/33 kV new 500 MVA Transformer at Bodhgaya GSS charged on 31.03.2015.
12. 132 kV Forbesganj- Katalya ckt- III charged on 08.03.2015.
13. 132 kV Forbesganj- Kishanganj ckt- II charged on 08.03.2015.

Members may update.

Deliberation in the meeting

Members noted.

Item no. C.5: 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	

New transmission elements:

Sl 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	LILO of Baripada-Mendhasal D/C at New Duburi	
8	765kv Anugul-Srikakulum D/C	
9	400kV Sasaram-Daltonganj D/C &Daltonganj S/Stn	
10	400 kV Ranchi-Raghunathpur D/C	
11	400 kV Meramandali-Dubri D/C	
12	400 kV IB-Meramandali D/C	
13	220 kV TLDP-IV – NJP ckt-2	
14	220 kV Bidhansai-Cuttack D/C	
15	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 Mar'15

System frequency touched a minimum of 49.52 Hz in Mar'15 on 20/03/15 at 05:51 Hrs. 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 March'15.

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.3: Grid incidences during the month of Mar, 2015

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	400kV Durgapur S/s	03/03/15 at 18:54hrs	0	0	Y-phase CT of main bay of 400kV Durgapur-Sagardighi-I burst due to which Bus bar protection i.r.to 400kV Bus-I operated and various feeders and ICTs tripped.	-
2	BSPTCL (220kV Dehri S/s)	05/03/15 at 19:08hrs	0	258	All the incoming feeders at 220kV Dehri S/s were hand tripped due to fire hazard occurred in switch yard.	GD-1
3	BSPTCL (220kVBodhgaya S/s)	10/03/15 at 23:02 hrs	0	220	Due to busting of R-phase CT of 220kV Gaya-Bodhgaya-I oat Bodhgaya end multiple trippings occurred and Bodhgaya substation became completely dark	GD-1
4	400kV Malda S/s	15/03/15 at 02:59 hrs	0	0	Various feeders tripped at 400kV S/s due to fault occurred at 400kV Bus Coupler Y-ph CT secondary terminal at Malda.	-

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.4: Any other items.**1. Shutdown of 400 kV Rangpo-Binaguri D/C line for shifting of tower 40.--- Powergrid**

Powergrid informed that the location 40 of above said line became highly vulnerable due to the ground cutting work for widening the road by state PWD. Powergrid has already awarded the work for shifting the tower on urgent basis in order to avoid the catastrophic failure. The erection work may be started in the month of May, 2015.

As the situation is occurred which are not in the control of Powergrid, the outage may be treated as deemed available.

Deliberation in the meeting

Since it is a urgent need, OCC advised NHPC to allow the shutdown.

NHPC informed that they will decide after doing joint site inspection with Powergrid.

2. Breakdown maintenance of OPGW -- DVC

DVC vide mail dated 15th April 2015 informed that they are experiencing OPGW breakdown not very frequently. But if breakdown occurs they are facing difficulty in finding suitable vendor. This is equally applicable to other constituents of the ER.

DVC requested to arrange for common vendor by CTU/ Powergrid for CTU network and state constituents so that vendor find good volume of work for being interested and such break down job can be shared by constituents on suitable terms and conditions.

Deliberation in the meeting

Powergrid informed that they are planning AMC for central sector and agreed to include the constituents part in the same AMC after getting requisition.

OCC advised all constituents give the requisition to Powergrid.

3. Allotment of 2 nos 132kv bays at 400/220/132kV Baripada (PG) S/s to OPTCL for 132kV Jaleswar line 1 & 2 -- OPTCL

OPTCL vide letter dated 13th April 2015 has given the requisition. The letter is enclosed at **Annexure-D.4.**

Deliberation in the meeting

Powergrid informed that they are in principle agreed to the proposal however these bays are allotted to JUSNL system and OPTCL should take consent from JUSNL. Powergrid informed that the same has been already communicated to OPTCL.

OCC advised JUSNL to look into it.

Meeting ended with vote of thanks to the chair

Participants in the 108th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 17.04.2015 (Friday)

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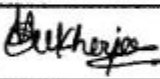
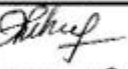
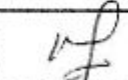
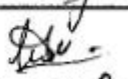
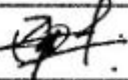
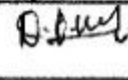
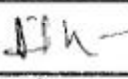
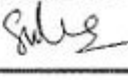
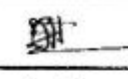
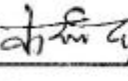
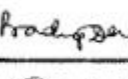
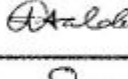
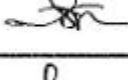
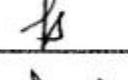


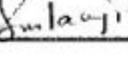
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Date: 17.04.2015 (Friday)

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Annexure-B.1

List of Third Party Protection observations related to PLCC

1	Jaypore 400 kV - Powergrid	28-01-2013	PLCC of 220 kV lines is not working	Line belongs to OPTCL.
2	Rengali 400 kV - Powergrid	02-01-2013	PLCC for 220 kV lines is not available	Line belongs to OPTCL
3	Rourkela 400 kV - Powergrid	22-01-2013	Only one PLCC channel is available for 220 kV line protection	Line belongs to OPTCL
4	TSTPS, Kaniha 400 kV - NTPC	29-12-2012	PLCC facility for protection is not available for 220 kV lines	<p>OPTCL is the owner of the associated PLCC system of the 220 kV Lines.</p> <p>The scheme for PLCC aided tripping for 220 Kv Lines is in place at Kaniha but non functional due to absence of protection coupler in associated PLCC system.</p> <p>OPTCL may be perused to provide protection coupler in the associated PLCC system</p>
5	Gaya 765 kV - Powergrid	28-12-2012	Auto reclosing and carrier aided tripping features for 220 kV lines are not in service due to problem at remote end (BSPTCL).	
6	Patna 400 kV - Powergrid	29-12-2012	PLCC for 220 kV lines not in service due to problem at remote end (BSPTCL).	PLCC link for 220kV Patna-Khagul and 220kV Patna-Fathua has been commissioned on 10.12.2013 but end to end protection checking was not done due pending interpanel wiring from Relay to PLCC protection coupler. The work is to be done by BSPTCL.


List of Owner of PLCC equipment

SL No	TIE-LINE	CONNECTED SYSTEM		LENGTH (KM)	CONDUCTOR (Type)	VOLTS (kV)	NO OF CKTS	Ownership		Maintenance		Owner of Line
								End1	End2	End1	End2	
7	INDRAVATI (PG)-INDRAVATI	POWERGRID(ER)	OPTCL	1	MOOSE	400	S/C	OPTCL	OPTCL	OPTCL / POWERGRID	OPTCL	OPTCL
8	RAIGARH-STERLITE	POWERGRID(WR)	VEDANTA	147	TWIN MOOSE	400	S/C	POWERGRID(WR)	STERLITE ENERGY Ltd	POWERGRID(WR)	STERLITE ENERGY Ltd	LILO POINT(26 KM)/REMAINING PORTION OF THE LINE IS OWN BY
12	STERLITE-ROURKELA	VEDANTA	POWERGRID(ER)	114	TWIN MOOSE	400	S/C	STERLITE ENERGY Ltd	POWERGRID(ER)	STERLITE ENERGY Ltd	POWERGRID(ER)	
13	BARIPADA-MENDASAL	POWERGRID	OPTCL	272	TWIN MOOSE	400	D/C	POWERGRID	POWERGRID	POWERGRID	POWERGRID / OPTCL	POWERGRID
44	DEHRI--GAYA	BSEB	POWERGRID	96	ZEBRA	220	D/C	POWERGRID/BSEB	POWERGRID	POWERGRID/BSEB	POWERGRID	Upto LILO portion POWERGRID(ie 11
45	GAYA--BODHGAYA	POWERGRID	BSEB	16	ZEBRA	220	D/C	POWERGRID	POWERGRID	POWERGRID	POWERGRID	Upto LILO portion POWERGRID(ie 12
47	CHANDIL-RANCHI	JUSNL	POWERGRID	42	ZEBRA	220	S/C	POWERGRID/JUSNL	POWERGRID	POWERGRID/JUSNL	POWERGRID	length 07 KM (Upto LILO)own by POWERGRID and rest own by JUSNL
	Powergrid informed that the following work is required to be done by JUSNL: 1. CVT foundation and erection. 2. Wavetrap erection. 3. Erection of PLCC panels in control room. 4. Earthing of PLCC panels. 5. Cable laying and termination of 48V DC from battery charger to PLCC panel. 6. Interpanel wiring from relay panel to protection coupler of PLCC system.											
48	RANCHI-HATIA	POWERGRID	JUSNL		ZEBRA	220	S/C	POWERGRID	POWERGRID/JUSNL	POWERGRID	POWERGRID/JUSNL	
	Powergrid informed that the following work is required to be done by JUSNL: 1. Cable laying and termination of 48V DC from battery charger to PLCC panel. 2. Interpanel wiring from relay panel to protection coupler of PLCC system.											
54	BALIMELA-U.SILLERU	OPTCL	APTRASCO	24	ZEBRA	220	S/C					
55	BUDHIPADAR-RAIGARH	OPTCL	CHATTISGARH	81	ZEBRA	220	S/C					
58	BUDHIPADAR-KORBA	OPTCL	CHATTISGARH	180	ZEBRA	220	D/C	POWERGRID	POWERGRID (WR)	POWERGRID / OPTCL	POWERGRID	POWERGRID
61	JAYANAGAR-JEYPOREPG	OPTCL	POWERGRID	7.73		220	DC	OPTCL	OPTCL	OPTCL	OPTCL	OPTCL
66	BISRA-TARKERA	POWERGRID	OPTCL	15		220	DC	OPTCL	OPTCL	OPTCL/POWERGRID	OPTCL	OPTCL
105	JODA-KENDUPOSI	OPTCL	JUSNL	48		132	SC	JUSNL	JUSNL	JUSNL	JUSNL	JUSNL
106	ROURKELA-GOELKERA	OPTCL	JUSNL	68		132	SC	JUSNL	JUSNL	JUSNL	JUSNL	JUSNL

Annexure-B.5.4

TATA

Agility Integrity Care
Excellence Collaboration Respect
Trust



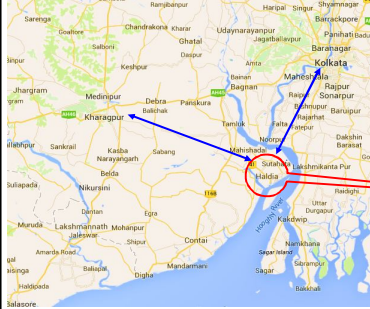

Haldia Islanding Scheme

ERPC OCC MEET- 17th April 2015

TATA POWER
Lighting up Lives!

Plant Location

TATA

Tata Power, Haldia plant is located near to the north-west side of Haldi river. It is situated in Hindustan Fertilizer Company (HFC) premises with Tata Steel Hooghly Met Coke (HMC) division. The site is well connected by rail and road with Kolkata and Kharagpur.

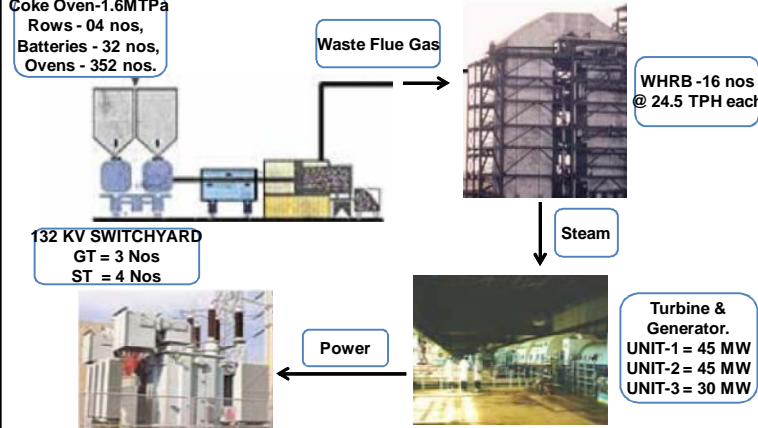
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ERPC MEET-17th APR-2015

1

Haldia plant process

TATA



TATA POWER
Lighting up Lives!

ERPC MEET-17th APR-2015

2

Initiation of grid failure

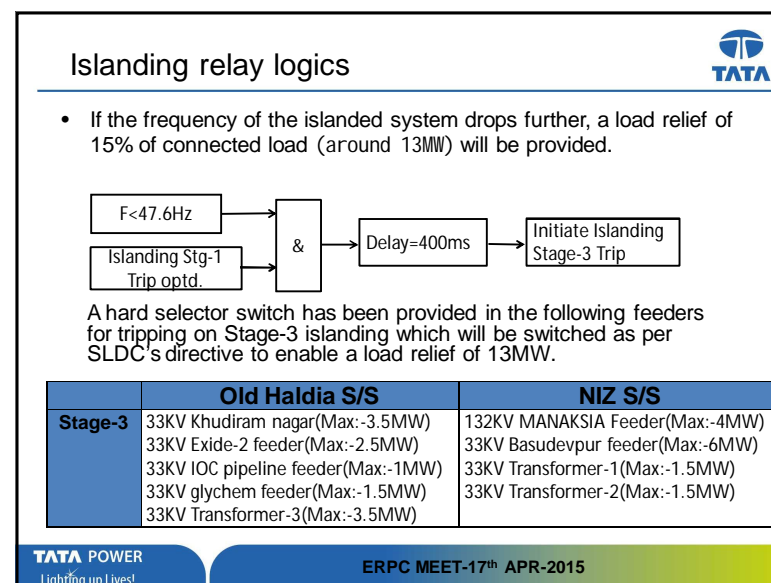
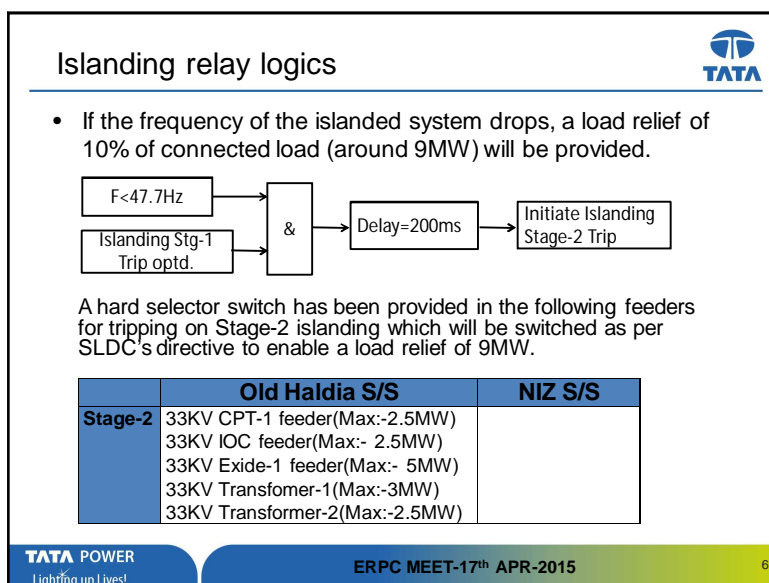
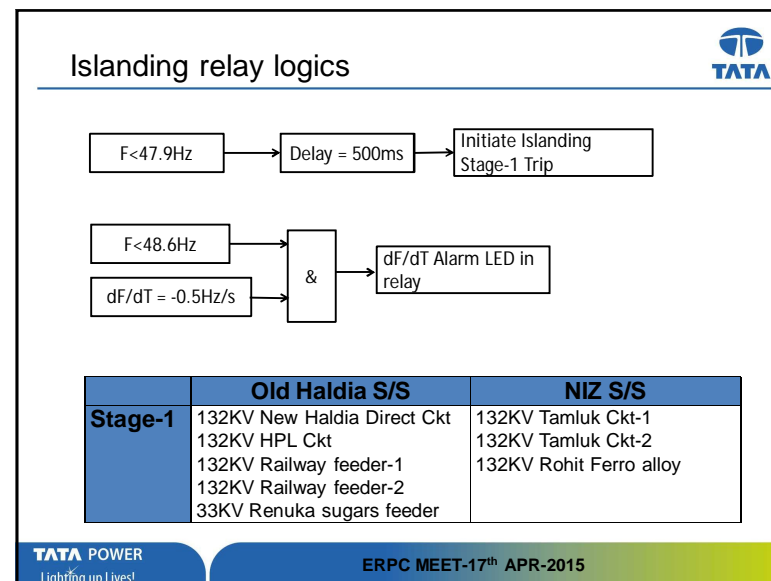
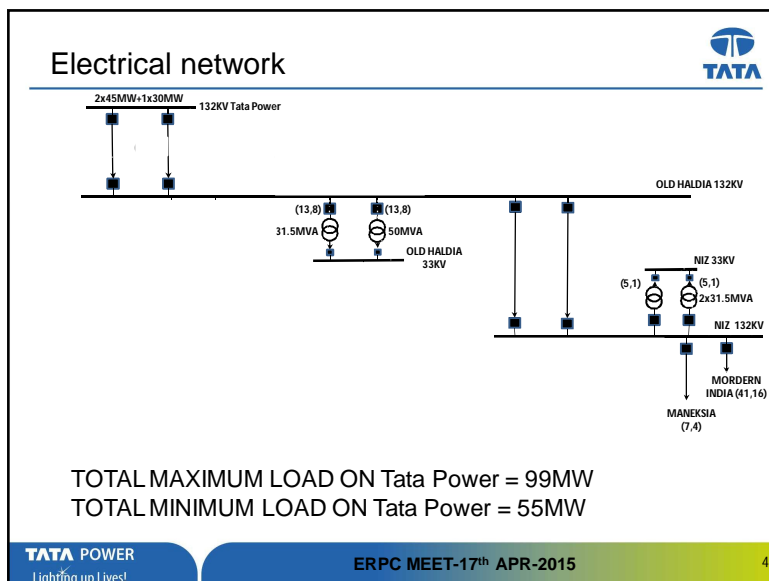
TATA

- Grid failure is detected through under frequency scheme.
- Under frequency relays with redundancy are installed at TATA POWER, Haldia for providing a command for islanding operation to the generators.
- Under frequency relays with redundancy are installed at WBSETCL, OLD HALDIA substation for tripping of the interconnected lines, traction transformers and connected small generators in the islanded system.
- Under frequency relays with redundancy are installed at WBSETCL, NIZ substation for tripping of the interconnected lines and one bulk load feeder.
- DF/DT scheme of islanding detection is currently kept in alarm mode at TATA POWER, OLD HALDIA and NIZ.
- PT inputs to the under frequency relays are derived from the 132KV Bus PT at all the station/substations.

TATA POWER
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ERPC MEET-17th APR-2015

3



Islanding panel photographs



Islanding scheme logic for TATA POWER units



Islanding scheme for TATA POWER units will be activated in DCS upon fulfillment of following conditions:-

- Islanding scheme ON selected in DCS via a soft arming switch
- Unit GCB closed feedback available.
- 2 out of 3 contact of Islanding Stage-1 trip operated.

Cases of Islanding operation



Case-1: All the three units of TATA POWER are in service and the expected load on the generators is in between 55MW and 99MW.

Case-2: Unit-3(30MW) is out of service and the expected load on the generators is in between 55MW and 90MW.

Case-3: Unit-1(45MW) or Unit-2(45MW) is out of service and the expected load on the generators is in between 55MW and 75MW.

Prior intimation for unit outage will be communicated to SLDC for appropriate selection of feeders under Stg-2 and Stg-3 to enable load matching.

Islanding Operation- Case-1 (load: 55-99MW)



When all three units are running, upon actuation of islanding signal the following control actions will take place:-

Unit #1

- Unit-1 will maintain its load and will remain in status quo condition

Unit #2

- Unit-2 will be forced to changeover from load control to speed control mode and remain in that state to avoid any unintended changeover .
- Speed reference will be forced to 3090 RPM for 4 second.
- Operator may change the speed reference after 4 second.
- The minimum opening of Unit-2 control valve will set at 25% (around 5MW) to prevent reverse power during low load operation.

Islanding operation- Case-1(Load:55-99MW)



Unit #3

- Unit - 3 will also continue to operate in Load control mode but its load reference and load will be brought down to 15 MW. Its speed controller will be in forced off condition.
- In this case load shared by Units will be for Unit 1: 45 MW, Unit 3: 15 MW and rest of the islanded load will be shared by Unit 2 machine which will be running in speed control mode.
- After islanding, if the frequency is on the higher side, the operation engineer will reduce the load of Unit 1 and Unit 3 to bring frequency down.

Islanding operation- Case-2(U#3 not available and load: 55-90MW)



Unit #1

- Unit-1 will maintain its load and will remain in status quo condition

Unit #2

- Unit-2 will be forced to changeover from load control to speed control mode and remain in that state to avoid any unintended changeover. Speed reference will be forced to 3090 RPM for 4 second.
- Operator may change the speed reference after 4 second.
- The minimum opening of Unit-2 control valve will set at 25% (around 5MW) to prevent reverse power during low load operation.
- Unit-2 will share the balance islanded load in excess to 45 MW shared by Unit 1.

Islanding operation Case-3(U-1 or U-2 is not available and Load:-55-75MW)



Unit #3

- Unit-3 will maintain its load and will remain in status quo condition

Unit #2/Unit#1

- Unit-2/Unit-1 will be forced to changeover from load control to speed control mode and remain in that state to avoid any unintended changeover.
- Speed reference will be forced to 3090 RPM for 4 second.
- Operator may change the speed reference after 4 second.
- The minimum opening of Unit-2/Unit-1 control valve will set at 25% (around 5MW) to prevent reverse power during low load operation.

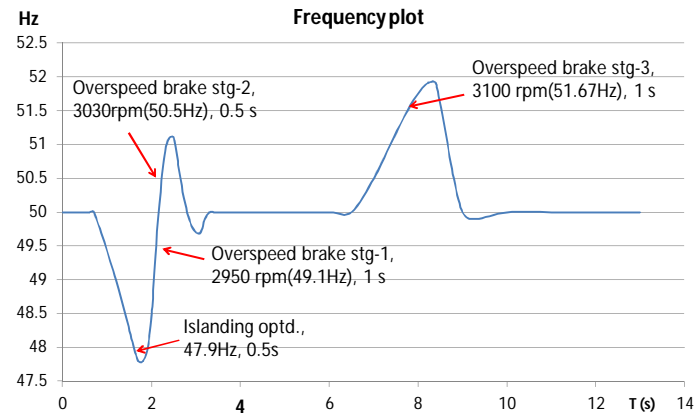
Post islanding transient state control



Over speed control:

- Under islanded condition, the system frequency will be decided by the machine operating in speed control mode.
- Normally Unit-2 will remain in speed control mode under islanded condition. Unit-1 can only be selected for speed control mode under islanded conditions provided Unit 2 is not in operation.
- Within two seconds of Islanding activation:-
 - If the system frequency is more than 49.1Hz(2950rpm), the control valve of Unit-2/Unit-1 will be forced shut for 1 sec.
 - If the system frequency shoots further to 50.5Hz(3030rpm), the controller output of Unit-2/Unit-1 will be shut for another 0.5 second.
- During islanded mode of operation, if the system frequency exceeds 51.67Hz (3100rpm), Unit-2/Unit-1 governor control valve will be forced shut for 1 second.
- An additional overspeed control block has been provided to moderate the governor output of Unit-1/Unit-2 after stabilization of islanding.

Post islanding transient state control in Speed Control machine



Post islanding transient state control



Steam Pressure control:

- If steam header pressure is greater than 90 kg/cm² after islanding, turbine steam dump valve will remain fully open for 30 seconds & thereafter maintain pressure in Auto mode.
- Operator will pre select the tripping of boilers based on islanded load in order to restrict further rise in steam pressure.
- On boiler trip, start up vent will open and MSSV will get closed automatically to manage the steam overpressure.

**"Journey Continues..
We value your inputs, suggestions and
critique."**

We take pride in Lighting up Lives!

Website: www.tatapower.com
Email ID: subrata.mitra@tatapower.com
sandeep.mukherjee@tatapower.com

Contact No: 9593100977, 9002116162

Third Party Protection Schedule

	Group-I			Group-II		
Itinerary of audit	Date of Audit	Substations	Lodging and Boarding	Date of Audit	Substations	Lodging and Boarding
Cluster-I		Bidhannagar (WBSETCL) & Durgapur (PG)	Stay at DVC guest house		Subhasgram (PG)	Transportation will be arranged by Powergrid
		DSTPS(DVC) & Mejia (DVC)	Transportation will be arranged by Powergrid		Kolaghat (WBPDCIL) & Kharagpur (WBSETCL)	
					Jeerat (WBSETCL)	
		Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities		Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities
Cluster-II		Mendhasal (OPTCL)	Stay at Talcher, NTPC guest house		Bakreswar (WBPDCIL) & Sagardighi (WBPDCIL)	Stay at Sagardighi Guest House on 27 th Dec'12, Transportation will be arranged by Powergrid
		Talcher STPS (NTPC)	Transportation from Kolkata to Bhubaneswar & back will be arranged individual by organizations and rest of the transportations arrangement will be done by Powergrid		Farakka (NTPC) & Malda (PG)	Stay at NTPC, Farakka Guest House on 28 th and 29 th Dec'12, Transportation will be arranged by Powergrid
		Angul & GMR				
		Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities		Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities

Annexure- B.6

Group-I			
Date of Audit	Substations	Lodging and Boarding	Transport
	PPSP (WBSETCL) & Maithon (PG)	Stay at Maithon PGCIL guest house	Transportation will be arranged by Powergrid
	Maithon RB (MPL) & Raghunathpur (DVC) (Audit only up to the commercially installed elements)	Stay at Santladihi(WBPDCL) guest house	
	Santladihi(WBPDCL) & Arambagh (WBSETCL)	If required, stay at Santladihi(WBPDCL) guest house	
	Tisco(DVC)	Stay at Jamshedpur, PGCIL guest house	Audit team will reach Jamshedpur on their own transportation arrangement and rest of the transportation arrangement will be done by Powergrid
	Jamshedpur (PG) & Ramchandrapur (JSEB)	Stay at Jamshedpur, PGCIL guest house	Transportation will be arranged by Powergrid
	Chandil(JSEB) & Ranchi(PG)	Stay at Ranchi, PGCIL guest house	Transportation will be arranged by Powergrid
	Koderma (DVC) PTPS		Audit team will return back from Koderma on their own transportation arrangement
Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities		

Group-II			
Date of Audit	Substations	Lodging and Boarding	Transport
	Rourkela (PG) & Tarkera (OPTCL)	Stay at Rourkela PGCIL guest house	Audit team will reach Rourkela on their own transportation arrangement and rest of the transportation arrangement will be done by Powergrid
	Joda(OPTCL)	Stay at Baripada PGCIL guest house	Transportation will be arranged by Powergrid
	Baripada (PG)	If required, stay at Baripada PGCIL guest house	Audit team will return back from Baripada on their own transportation arrangement
	Jaypore(PG)	Stay at Jaypore, PGCIL Guest House	Audit team will reach Jaypore on their own transportation arrangement and rest of the transportation arrangement will be done by Powergrid

Annexure- B.6

	Indravati (PG), & Indravati (OHPC)	Stay at Indravati, PGCIL Guest House	Transportation will be arranged by Powergrid
	Jharsuguda	Stay at PGCIL Guest House	Transportation will be arranged by Powergrid
	Bolangir (PG) & Rengali (PG)	If required, stay at Rengali, PGCIL Guest House	Audit team will return back from Rengali on their own transportation arrangement
Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities		
	Barh(NTPC) (Audit only up to the commercially installed elements)	Stay at Kahalgaon, NTPC Guest House	Audit team will reach Barh(NTPC) on their own transportation arrangement and rest of the transportation arrangement will be done by Powergrid
	Kahalgaon (NTPC)	Stay at Kahalgaon, NTPC Guest House	Transportation will be arranged by Powergrid
	Banka (PG) & Purnea (PG)	Stay at Purnea, PGCIL Guest House	Transportation will be arranged by Powergrid
	Dalkhola(PG)		Audit team will return back from Dalkhola on their own transportation arrangement
Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities		

Date of Audit	Substations	Lodging and Boarding	Transport
	Parulia (DVC)	Stay at Durgapur, PG guest house. Stay at Mejia, DVC guest house	Audit team will reach Durgapur on their own transportation arrangement and rest of the transportation arrangement will be done by Powergrid
	Mejia (DVC) & Kalyaneswari (DVC)	Stay at Maithon, PGCIL guest house.	Transportation will be arranged by Powergrid
	Bokaro (DVC)	Stay at TVNL guest house.	Transportation will be arranged by Powergrid
	TVNL	Stay at TVNL guest house.	Audit team will return back from Bokaro on their own transportation arrangement
Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities		

Annexure- B.6

Group-II			
Date of Audit	Substations	Lodging and Boarding	Transport
	Jamshedpur (DVC)	Stay at Jamshedpur PGCIL guest house.	Audit team will reach Jamshedpur on their own transportation arrangement and rest of the transportation arrangement will be done by Powergrid
	Budipadar(OPTCL)	Guest house will be arranged by OPTCL/OPGC.	Transportation will be arranged by Powergrid
	IB TPS (OPGC)	If required, stay at OPGC guest house.	Audit team will return back from IB TPS on their own transportation arrangement
Team member	One representative from ERPC One representative from ERLDC One representative from PGCIL One representative from auditee utilities		

Annexure- B.7.1

MONTHLY REPORT

DATE: 10.04.2015

SESA STERLITE LIMITED, ALUMINIUM & POWER
(Formerly STERLITE ENERGY LIMITED),
JHARSUGUDA, ODISHA

REPORT: - STATUS OF CONSTRUCTION OF 400 kV STERLITE - JHARSUGUDA D / C SECTIONS

Name of Line: Sterlite – Jharsuguda 400 kV D/c line with associated Line Bays

[Interim Arrangement: LILO of one circuit of Rourkela – Raigargh 400 kV D/c (1st line) at Sterlite]

[Interim Arrangement: LILO of one circuit of Rourkela – Raigargh 400 kV D/c (2nd line) at Sterlite]

Status of Line Bay construction at POWERGRID's Jharsuguda Pooling Station
<ul style="list-style-type: none">Dated 13.10.2014, Order has been placed order Engineering, Supply, construction & commissioning of 400 kV Bays at POWERGRID's Jharsuguda pooling station on M/s SR Associates Infrastructure Private Limited, S-2/40, Mancheswar Industrial Estate, Bhubaneswar – 751010, Odisha. Commissioning to complete by end of 2015.
<ul style="list-style-type: none">Dated 25.11.2014, Design and drawings are prepared and submitted to POWERGRID for approval
<ul style="list-style-type: none">Dated 09.12.2014, Supply orders for sub equipment has been placed for Circuit Breaker, CVT, CT, Isolator, Relay & Protection panels, Substation automation systems and Spares to SIEMENS.
<ul style="list-style-type: none">MOM dated 28.12.2014 with PGCIL, Construction contractor already mobilized at PGCIL pooling station.
<ul style="list-style-type: none">Dated 14.01.2015, Rs 30 Lakh has been paid to PGCIL as Service fee for Post order consultancy services
<ul style="list-style-type: none">Approvals of Construction drawings are under hold by PGCIL, Gurgaon and due to that bay construction work is stopped.
<ul style="list-style-type: none">Dated 13.03.2015, PGCIL has approved the Single line diagram, Layout and sub system equipment drawings.
<ul style="list-style-type: none">Dated 04.04.15, shutdown taken at Bay 15 & 18 and excavation work for sub system equipment's carried out. Photographs attached.



Status of Transmission Line construction
<ul style="list-style-type: none"> Line length: LILO 1: 22.5 kM, LILO 2: 21.5 kM
<ul style="list-style-type: none"> Route Survey for the Transmission line has been completed Tower spotting, Tower schedule with detailed land schedule has been prepared for each tower location BOQ and technical specification has been prepared
<ul style="list-style-type: none"> Forest Diversion Approval is required for 11.03 Ha Forest diversion Proposal submitted to PCCF office and state serial number obtained DGPS survey for forest land completed Pillar posting and Tree enumeration job in Forest land has been completed. DGPS survey at Compensatory afforestation land is completed. Compensatory afforestation land (CA Land) of 30 acres is arranged by us and after site inspection DFO already issued suitability certificate. Compensatory afforestation scheme has been approved by DFO;. Dated 20.02.2015, on line application with all documents submitted in the MoEF on line Portal and Proposal number is FP/OR/TRANS/10273/2015. Site visit of DFO, sundargarh and Forwarding of Part II through on line portal is expected in this month. Obtaining FRA compliance certificate from Collector under Forest Rights Act (FRA) is in progress.
<ul style="list-style-type: none"> Activities related to start construction in non-forest land is under progress.



IND BARATH ENERGY (UTKAL) LTD

249, Unit-3, Kharvela Nagar, Bhubaneswar - 751 001

BBSR/Dt: 17.04.2015

STATUS OF IND BARATH ENERGY (UTKAL) LIMITED **(For 108th OCC Meeting of ERPC, Kolkata to be held on 17.04.2015)**

Report: Status of commissioning of 400 KV Ind-Barath to Jharsuguda D/c (dedicated line)

(Interim Arrangement: LILO of Circuit 1 of 400KV Raigarh- Sundargarh PGCIL line from 12th November, 2014)

Line length: 41.975 Kms. (From Location 7 of present line of IBEUL to 765/400 KV PGCIL Pooling Station)

Final Arrangement with Grid and associated work						
1	400 KV IBEUL D/c line status	Activities	Total Quantity	Completed upto current date.	Balance as on date	Progress Status
		Towers Completed (No)	125	109	16	2
		Stringing (km)	41.975	20.261	21.714	6.632
2	Bays extension work at Sundargarh Pooling Station, (PGCIL), Bays- 421 & 424					
		Foundation Towers & Equipments (No.)	08 188	08 towers fdns. & 188 equipments.	NIL	NIL
		Erection: Towers & Girders	08 towers 08 girders	08 towers erection completed + 08 girders erected.	NIL	NIL
		STRUCTURE ERECTION OF BAY EQUIPMENTS (LA, BPI, CVT, WAVETRIP, ISOLATOR, HBPI,CT,CB)	188	188	NIL	NIL
		EQUIPMENT ERECTION OF BAY (LA,BPI, CVT, WAVETRIP, CT, CB)	118 (ALL EQUIPMENT NOS. IN SET WISE)	98	20	CB, Isolator and Wavetrap is under progress
		STRINGING	Stringing in the switchyard have been completed. Jumper stringing and Equipment stringing is under progress.			
		CR Panel erection+Marshalling Box + Air Conditioning system	Is in construction phase. Marshalling box and Air conditioning system is in transit and will be installed once delivered.			
		Cable trench+Earthing	SECTION 2-2 and SECTION 3-3 only PCC and RCC with side wall has been done. Excavation of earthing part is in progress.			

	Illumination + PLCC installaton	Is in transit and will be installed once delivered.
	Fire protection system.	Is in transit and will be installed once delivered.
	PCC with gravel spreading	Will start soon.

Request for extension LILO connectivity: As per present scenario IBEUL requests OCC to extend the above LILO arrangement upto 30th April 2015.

Letter of Credit: LC has been opened in favor of PGCIL, ER-I, Patna at Indian Overseas Bank, Patna amounting Rs. 300 lacs. Hard copy will be sent to ERLDC/ERPC soon. However, IBEUL assures payment of Deviation Charges as per Deviation Settlement Statement accordingly.

Manoj K. Padhan
Ind Barath Energy (Utkal) Limited
17.04.2015.

Power Cuts/Load shedding : State/Region

[illegible]

Latest status on non-availability of SCADA data

It was informed by ERLDC that some constituents are not updating single line diagram in SCADA as per actual real time network and same is causing lack of network visibility.

All constituents agreed to update SCADA single line diagram as per real network time to time and will furnished the same to ERLDC also.

The status as updated in the SCADA meeting is as given below:

- i) List of additional elements/feeders whose data is not available – station under ULDC project:

SL no	Name of Utility	KV	Name of station	Reason for non reporting	Latest status
1	OPTCL	220	Vedanta (9x135 MW)	No status points are available.	No isolators status are available. MW/ MVAR not available for sterlite 1/2 line, station transformer / Smelter. CBs of Bus coupler not available. Bus-1 KV/ HZ not available. Problem will be resolved within 21st March 2015.

- ii) The List of RTU supplied under BSEB ULDC Project but data is faulty/ intermittent:

S/n	Name of RTU locations	Latest status	Remarks
1	Jakkanpur, Khagaul RTU, Dumraon, Karmnasha, Sitamarhi, , Purnea & Koshi	Data is reporting intermittently.	<p>1) Data integrated through GPRS will be intermittent till Final communication packages is implemented (Already awarded to PGCIL for execution).</p> <p>2) ALL RTU will be report to SLDC patna subject to availability of communication system (Already Awarded to PGCIL)</p> <p>3) New RTU is being integrated with OSI systems and this RTU will report to ERLDC once ERLDC OSI system is ready.</p>
2	Hathidah, Lakhisarai & Darbhanga	Data is reporting intermittently.. Due to re-conductoring work in Darbhanga-Samastipur T/L, Darbhanga is not reporting temporarily.	
3	BTPS	RTU dismantled. Renovation/overhauling work is going on. SAS is expected to be operational by the November, 2014.	
4	220 kV Hajipur	<i>Hajipur is temporarily down, BSPTCL working to restore it.</i>	
5	Jagdishpur, Sipara, Madhepura	RTU has been supplied by PGCIL under Sub-transmission project of Bihar but commissioning is left out. Now, it will be done in ULDC upgradation scheme.	
6	Siwan, Valmikinagar, Gopalganj, Kisanganj and Arrah	RTU along with communication has been included in the scope of work of Powergrid under up gradation/ replacement scheme of ULDC. It was scheduled to be completed by Oct'14. RTU supplied by M/s. Chemtrols except Darbhanga. RTU reached site.	

Annexure- B20

iii) The updated status of telemetry of JSEB Sub-Stations under ULDC project is as given below:

Sl. No.	Name of the RTU location	Latest status	Remarks
1	Ramchandrapur	Reporting is interrupted because of problem in PLCC link between Candil & Ramchandrapur. CVT brusted at Ramchandrapur bay and requires replacement. Arrangement in being done for its replacement.	1) RTU's CPU Card sent to Bhubaneswar for repairing . 2) All RTU will restored by Mid March 2015.
2	Jamtara	Jamtara RTU has been shifted in new control room. POWER GRID has been requested to reintegrate the feeders in RTU as integration of additional feeder (new element) in the existing RTU. <i>Powergrid informed that Advance Payment towards new element integration is pending since long. After payment, M/s. ALSTOM will give the schedule of site visit for feeder integration.</i>	
3	Deoghar	Both LMU & LMDU rusted at Jamtara. Arrangement inbeing done for its replacement. Deoghar-Jamtara-Maithon link is interrupted also because of snatching of patching cable at Maithon (G) and Maithon (SLDC). This was found during survey of sites with M/s PUNCOM which will be corrected by the agency under AMC. AMC by PUNCOM has been started.	
4	Garawah	Garawah RTU will be restored when it will be connected from Ranchi end through Hatia-Loherdaga-Latehar-Daltonganj – Garwah Transmission lie.	
5	Rajkharsawan	Started reporting	
6	Kendposi	Reporting is interrupted because of shifting of Chandil bay at Rajkharsawan. PLCC outdoor equipment has been shifted recently to new location of Chandil bay at RKSJ. Some work like termination of co-axial cable will be done soon.	
7	Goelkera		
8	Jadugoda	Co-axial cable faulty at Golmuri (Chandil bay)	

iv) The updated status of telemetry of OPTCL Sub-Stations under ULDC project is project as given below:

S/n	Name of RTU Locations	Latest status
1	Nalco	<p>OPTCL informed that RTU is reporting but intermittent since it was not configured properly. The issue was already taken up with Nalco and it will be resolved soon.</p> <p>OPTCL has resolved the issue .Some Unit generation polarity will be resolved by Feb 2015.</p>

v) RTU telemetry provided but data are intermittent / new element not wired.

SL No	Name of station/ Utility	Reason for non reporting	Latest status
I	Lalmatia JSEB	MW / MVAR/ OLTC tap of 220/132 KV ICT –II not available	MW/MVAR/OLTC tap of 220/132 KV ICT-II not available. Will be complete during additional feeder integration , no time frame .
II	JSPL (Meramundali - 400)	Most of the data not available .	OPTCL informed that they are taking matter with JSPL. Will be resolved the problem by Mar 2015
III	Jhasurguda 400	Data reporting is highly intermittent.	Data reporting is intermittent .POWERGRID informed fibre link will be commissioned by 27/11/14 . Data Reporting is stable .
IV	DVC		
	Ramgarh	Data for 220 KV bay not available	RTU Commissioned. Data reporting is intermittent. Connected through OPGW and stable
	Patherdiah,		RTU reached site. Will be commissioned within Feb 2015.
	Kalipahari		RTU reached site. Will be commissioned within Feb 2015.

vi) Sub - Stations (220 & 132 kV) Telemetry not provided :

SL No	Name of station/ Utility	Reason for non reporting	Latest status
I	WBSETCL		
	Subhasgram	RTU not provided for data telemetry	Data integrated
	New Bishnupur		Data integrated
	Bantala		Commissioning work completed. Data integrated
	New Town		Data integrated
	Krishna Nagar		RTU commissioned.
	Kalingpong		RTU is reporting.
	Karseong		RTU commissioned. Communication link to be provided by WBSETCL. WBSETCL requested M/s PGCIL to commissioned one Mux (to be provided by M/s WBSETCL) at Siliguri (220) S/s (PGCIL) for integration of the voice and data of Kurseong substation . POWERGRID agreed for the same and subject to technical feasibility .
	CESC S/s: EM 220 kV		By January, 2015. CESC control centre ICCP will be

Annexure- B20

			integrated with WB's new OSI system by April 2015
	CESC : Kasba-132 kV, EM-132 kV Jadavpur, Chakmir, Majerhat and CESC Belur		By January, 2015 CESC control centre ICCP will be integrated with WB's new OSI system by April 2015
II	DVC		
	Burnpur	RTU not provided for data telemetry	Data integrated. Data reporting ok.
	Dhanbad		Data integrated. Data reporting ok.
	Chandil (Manique)		Data integrated. Data reporting ok.
III	JSEB		
	Hatia New	RTU not provided for data telemetry	Hatia SAS to be integrated with SLDC No time frame.
	Manique (Chandil)		By Feb 2015 all RTUs will be supplied. No commissioning time frame
	Japla		By Feb 2015 all RTUs will be supplied. No commissioning time frame

Proposed Maintenance Schedule of Thermal Generating Units during May 2015
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System	Station	Unit	Size (MW)	period		No. of Days	Reason
				From	To		
DVC	MTPS	3	210	25.05.15	14.06.15	21	AOH

Additional Maintenance Schedule as requested by constituents

DVC	MTPS	5	250	12.04.15	21.05.15	40	Capital Overhaul (DVC vide letter 01.04.15 has requested for Shutdown as it was not taken during 2014-15 as planned). OCC agreed to take the shutdown any date after 28.04.2015. DVC agreed to intimate the dates.
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**EASTERN REGIONAL LOAD DESPATCH CENTRE
KOLKATA**

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 108TH OCC MEETING OF ERPC

Sr. No	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S/D availed BY	Reason	SUBJECT TO CONSENT FROM
1	765KV Angul-Jharsuguda line-II	18/04/15	06:00	30/04/15	18:00	ODB	ER-II(OR)	For completing balance 50KM OPGW laying works.	NLDC
2	315 MVA ICT - I AT NPRN	18/04/15	09:00	05/07/15	18:00	OCB	ER-I	FOR ITS REPLACEMENT BY 500 MVA ICT.	BIHAR
3	400 KV RANGPO - BINAGURI - I	18/04/15	07:00	28/05/15	17:00	ODB	ER-II/ULDC	FOR OPGW INSTALLATION WORK	
4	A/R 400 KV MAITHON - MPL - I	18/04/15	07:00	28/05/15	17:00	ODB	ER-II/ULDC	FOR OPGW INSTALLATION WORK	
5	A/R 400 KV BINAGURI - PURNEA - III	18/04/15	07:00	28/05/15	17:00	ODB	ER-II/ULDC	FOR OPGW INSTALLATION WORK	
6	400KV PTN-BARH-3 & 4	18/04/15	08:00	19/04/15	16:00	ODB	ER-I	FOR STRINGING WORK OF 400KV BARH-GKP & 400KV PTN-KISHANGANJ	NLDC
7	132KV BSF-BARH & 132KV BARH-HATIDAH(LILLO PORTION OF BSF-HATIDAH) OF BSPTCL LINE	18/04/15	08:00	19/04/15	16:00	ODB	ER-I	FOR STRINGING WORK OF 400KV BARH-GKP & 400KV PTN-KISHANGANJ	BIHAR
8	220KV Birpara-Salakathi-I	18/04/2015	07:00	18/04/2015	18:00	ODB	ER-II(KOL)	Connection of lines at HVDC convertor station	NLDC
9	220KV Birpara-Salakathi-II	18/04/2015	07:00	18/04/2015	18:00	ODB	ER-II(KOL)	Connection of lines at HVDC convertor station	NLDC
10	400 KV Keonjhar-Rengali Line	20/04/15	09:00	21/04/15	19:00	ODB	ER-II(OR)	Erection of Beam , Stringing of Jack Bus in Future bay	
11	400 KV Keonjhar-Baripada Line	20/04/15	09:00	21/04/15	19:00	ODB	ER-II(OR)	Erection of Beam , Stringing of Jack Bus in Future bay	
12	400 KV Main Bus-I at Keonjhar	20/04/15	09:00	21/04/15	19:00	ODB	ER-II(OR)	Extension of 400 KV Bus-I	
13	220 KV PURNEA - DALKHOLA - 1 & 2	20/04/2015	08:00	19/05/2015	18:00	OCB	ER-I	FOR REPLACEMENT OF DD+25 m TOWER (DEFORMED) AT LOC. NO. 36 INSTALLED ON PILE FOUNDATION IN RIVER PAMAN NEAR BAISL AS THE WATER	BIHAR
14	220KV SSRM-DEHRI S/C	21/04/15	08:00	22/04/15	19:00	ODB	ER-I	FOR STRINGING WORK BETWEEN LOC NO 158 TO 159 FOR EXTENSION OF 400KV BSF-SSRM-3 & 4 TO VARANASI	NLDC
15	400KV MTN-RTPS(DVC)	21/04/15	09:00	27/04/15	17:00	ODB	ER-II(KOL)	PIR removal of main Bay CB .S/D required for crane movement. Line will be charged through TIE bay when crane movement is not required during PIR removal work	DVC
16	A/R 400KV Farakka-Malda-I	21/04/15	07:00	20/05/15	18:00	ODB	ER-II(KOL)	PID of insulator	
17	A/R 400KV Farakka-Malda-II	21/04/15	07:00	20/05/15	18:00	ODB	ER-II(KOL)	PID of insulator	
18	400/220kV, 315MVA ICT-2 at Baripada	22/04/15	07:00	22/04/15	16:00	ODB	ER-II(OR)	Replacement of CT & AMP	OPTCL
19	220 kV Malda - Dalkhola Line-I	22/04/15	09:00	22/04/15	13:00	ODB	ER-II(KOL)	AMP of Bay Equipments at Dalkhola substation for the year 2014-15	
20	765kV Sundarharh - Dharamjaygarh Line-2	23/04/15	08:00	25/04/15	17:00	OCB	ER-II(OR)	Erection of Beam near Dharmjaygarh line-2 for Dharamjaygarh Line-3&4 Bay extension work.	NLDC
21	400kV, 63MVAR Mendhasal Line Reactor	23/04/15	07:00	21/04/15	16:00	ODB	ER-II(OR)	AMP Work	
22	220 kV Malda - Dalkhola Line-II	23/04/15	09:00	23/04/15	13:00	ODB	ER-II(KOL)	AMP of Bay Equipments at Dalkhola substation for the year 2014-15	
23	220 kV Dalkhola - Purnea Line-I	24/04/15	09:00	24/04/15	13:00	ODB	ER-II(KOL)	AMP of Bay Equipments at Dalkhola substation for the year 2014-15	
24	132KV KUDRA-KARAMNASA S/C (BSPTCL)	25/04/15	08:00	26/04/15	19:00	ODB	ER-I	FOR STRINGING WORK BETWEEN LOC NO 161 TO 162 FOR EXTENSION OF 400KV BSF-SSRM-3 & 4 TO VARANASI	BIHAR
25	220KV D/C OPTCL Bhanjanagar-Nayagarh line	25/04/15	08:00	26/04/15	17:00	ODB	ER-II(OR)	For stringing of 765KV Angul-Srkakulam Transmission line.	OPTCL
26	220/132kV, 160MVA ICT-1 at Baripada	25/04/15	07:00	25/04/15	16:00	ODB	ER-II(OR)	Replacement of CT & AMP	WBSETCL
27	220KV Dalkhola-Malda Line-I	25/04/15	09:00	25/04/15	13:00	ODB	ER-II(KOL)	AMP of Bay Equipments at Dalkhola substation for the year 2014-15	
28	220KV BUS-2 AT PRN	26/04/15	08:00	28/04/15	18:00	OCB	ER-I	FOR ERECTION OF IPS TUBE FROM ISOLATOR TO BAY CB. NO POWER INTERUPTION.	
29	220 KV BRP-SKT-I	26/04/15	09:00	28/04/15	18:00	ODB	ER-II(KOL)	Isolator retrofitting under ADDCAP	NLDC
30	400 KV MALDA-FARAKKA-II Main Bay	27/04/15	08:00	27/05/15	18:00	OCB	ER-II(KOL)	For dismantling of existing CB & erection of new CB for construction activity under ERSS-XIII.	
31	43252 BAY CB at Farakka	27/04/15	08:00	29/05/15	18:00	OCB	ER-II(KOL)	FOR CB CHANGE UNDER ERSS-XIII. (AS PER LOA COMPLETION TARGET: JUNE'15).	
32	400 KV BUS-I at Farakka	27/04/15	08:00	27/04/15	18:00	ODB	ER-II(KOL)	For removal of jumper from bus isolator.	
33	3 X 500 MVA ICT - 1 & 2 AT NRNC	27/04/15	11:00	27/04/15	16:00	ODB	ER-I	FOR ERECTION OF AUXILIARY BUS IN COMMON AREA FOR SPARE TRANSFORMER SWITCHING WORK.THERE WILL NO POWER FLOW IN 765 KV RNC - DHARAMJAYGARH DURING THE S/D.	
34	400 KV PATNA - BALIA -3 & 4	27/04/15	08:00	28/04/15	18:00	OCB	ER-I	FOR STRINGING OF 400 KV D/C KISHANGANJ - PATNA T/L	NLDC
35	315MVA ICT-2 AT GAYA	27/04/15	10:00	27/04/15	16:00	ODB	ER-I	FOR AMP WORK.	BIHAR

36	125 MVAR Bus Reactor at Rourkela	27/04/15	08:00	27/04/15	18:00	ODB	ER-II(OR)	Checking of Interlock ,VT Selection Ckt & Commissioning of CSD in its Tie Bay.	
37	220KV Dalkhola-Malda Line-II	27/04/15	09:00	27/04/15	13:00	ODB	ER-II(KOL)	AMP of Bay Equipments at Dalkhola substation for the year 2014-15	
38	400 KV MALDA-FARAKKA-II	28/04/15	08:00	28/04/15	18:00	ODB	ER-II(KOL)	For dismantling of existing CB for construction activity under ERSS-XIII. Clearance issue.	NLDC
39	400 KV MALDA-FARAKKA-II	28/04/15	08:00	28/04/15	18:00	ODB	ER-II(KOL)	For replacement of existing CT & LA for construction activity under ERSS-XIII at Malda.	NLDC
40	400 kv Farakka - Malda-2 line	28/04/15	08:00	28/04/15	18:00	ODB	ER-II(KOL)	For removal of jumper from line isolator at Farakka.	NLDC
41	765 KV BUS-2 AT NRNC	28/04/15	08:00	29/04/15	18:00	ODB	ER-I	FOR ISOLATOR ALIGNMENT AND BUS BAR INTEGRATION FOR COMMISSIONING OF TIE BAY OF 765 KV B/R -I AT NRNC	NLDC
42	220 KV RANCHI - HATIA - II	28/04/15	10:00	28/04/15	14:00	ODB	ER-I	FOR AMP WORK.	JHARKHAND
43	400KV JSR-MAITHON	28/04/15	11:00	28/04/15	12:00	ODB	ER-I	FOR OIL SAMPLING OF NEWLY REPLACED R PH CT OF ALSTOM MAKE (AFTER 01 MONTH OF COMMISSIONING)	
44	400 KV Sundargarh - Raigarh # 1	28/04/15	09:00	28/04/15	17:00	ODB	ER-II(OR)	For tightness checking of Jumpers, tightening of Corona Ring at various locations.	NLDC
45	765/400kV 1500MVA ICT-1 at Sundergarh	28/04/15	08:00	29/04/15	17:00	OCB	ER-II(OR)	Fire fighting testing and attaining defects in fire fighting system.	NLDC
46	220 kv Dalkhola - Dalkhola Line-I	28/04/15	09:00	28/04/15	13:00	ODB	ER-II(KOL)	AMP of Bay Equipments at Dalkhola substation for the year 2014-15	WBSETCL
47	400 KV BIHARSARIFF - LAKHISARAI - KAHALGAON - II	28/04/2015	10:00	28/04/2015	18:00	ODB	ER-I	FOR FACILITATING LILO OF EXISTING BSF - KHG OPGW AT LAKHISARAI	NLDC
48	400 KV JSR - BARIPADA	29/04/15	08:30	29/04/15	16:00	ODB	ER-I	FOR REPLACEMENT OF BROKEN GLASS INSULATORS AT LOC. NO. 95 BROKEN BY MISCREANTS.	
49	400 KV PURNEA - MUZAFFARPUE - I	29/04/15	09:00	13/05/15	17:00	ODB	POWERLINK	Changing of 160 kn insulator in 57 nos	NLDC
50	400 KV Rourkela - Raigarh # 2 with Line Reactor	29/04/15	08:00	29/04/15	18:00	ODB	ER-II(OR)	AMP Work	NLDC
51	220 KV MTN-DHANBAD-I	29/04/15	09:00	29/04/15	17:00	ODB	ER-II(KOL)	CVT Replacement	DVC
52	220 KV BRP-NSLG-I	29/04/15	09:00	04/05/15	18:00	ODB	ER-II(KOL)	Isolator retrofitting under ADDCAP	
53	220 kv Dalkhola - Dalkhola Line-II	29/04/15	09:00	29/04/15	13:00	ODB	ER-II(KOL)	AMP of Bay Equipments at Dalkhola substation for the year 2014-15	WBSETCL
54	220KV Birpara-NSLG-I	29/04/2015	09:00	04/05/2015	17:00 HRS	OCB	ER-II(KOL)	Isolator retrofitting under ADDCAP	NO power interruption
55	3 X 500 MVA ICT - 1 AT NRNC	30/04/15	08:00	30/04/15	18:00	ODB	ER-I	ERECTION OF AUXILIARY BUS FOR SPARE TRANSFORMER SWITCHING WORK.	
56	400 KV Sundargarh - Raigarh # 2	30/04/15	09:00	30/04/15	17:00	ODB	ER-II(OR)	For tightness checking of Jumpers, tightening of Corona Ring at various locations.	NLDC
57	765/400kV 1500MVA ICT-2 at Sundergarh	30/04/15	08:00	01/05/15	17:00	OCB	ER-II(OR)	Fire fighting testing and attaining defects in fire fighting system.	NLDC
58	400 KV FARAKKA - KAHALGAON - 1	30/04/2015	08:00	06/05/2015	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS.	
59	A/R OF 400 KV BARH - KAHALGAON -2	01/05/15	07:00	31/05/15	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	
60	A/R OF 400 KV KAHALGAON - MTN -2	01/05/15	07:00	31/05/15	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	
61	A/R OF 400 KV JAMSHEDPUR - BARIPADA	01/05/15	07:00	31/05/15	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	
62	A/R OF 400 KV BANKA - BIHARSHARIF -2	01/05/15	07:00	31/05/15	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	EITHER BANKA- BSF OR KHG - BARH, ONE WILL BE ALLOWED
63	400 KV Rourkela - Sundargarh # 1	01/05/15	09:00	01/05/15	18:00	ODB	ER-II(OR)	AMP Work	
64	220/132kV, 160MVA ICT-2 at Baripada	01/05/15	07:00	01/05/15	16:00	ODB	ER-II(OR)	AMP Work	OPTCL
65	400 KV ROURKELA-SUNDARGRAH CKT-I AND 400 KV ROURKELA-RAIGARH CKT-I (Both Ckts together)	01/05/15	08:00	02/05/15	17:00	ODB	ER-II(OR)	FOR STRINGING OF 765KV DC Angul-Jharsuguda (new line)	NLDC
66	220 KV MTN-DHANBAD-II	01/05/15	09:00	01/05/15	17:00	ODB	ER-II(KOL)	CVT Replacement	DVC
67	220 KV Bus I at Birpara	01/05/15	09:00	01/05/15	17:00	ODB	ER-II(KOL)	Bus Isolator AMP	
68	400 KV Rangpo-Binaguri-II	01/05/15	08:00	10/05/15	18:00	OCB	ER-II(KOL)	Erection of Tower at LOC 40	
69	400KV BUS-I at Subhasgram	01/05/15	09:00	01/05/15	17:00 HRS	ODB	ER-II(KOL)	Bus Isolator AMP	WBSETCL
70	50 MVAR L/R AT RENGALI - INDRAVATI	01/05/2015	08:00	15/05/2015	16:00	OCB	ER-II(OR)	DRYING OUT DUE TO OIL PARAMETER VIOLATION	LINE WILL OUT FOR SWITCHING IN
71	400 KV PATNA - BALIA -1 & 2	02/05/15	08:00	03/05/15	18:00	OCB	ER-I	FOR STRINGING OF 400 KV D/C KISHANGANJ - PATNA T/L	NLDC
72	400 KV Rourkela - Raigarh # 2	02/05/15	09:00	02/05/15	18:00	ODB	ER-II(OR)	AMP Work	NLDC
73	400 KV Talcher - Meramundi Ckt 1	02/05/15	07:00	05/05/15	18:00	ODB	ER-II(OR)	Replacement of insulator in polluted area & crossings by Angul TLM.	OPTCL
74	220KV TBC Bay at Siliguri	02/05/15	08:00	05/05/15	18:00	OCB	ER-II(KOL)	Isolator Retrofitting under ADDCAP	
75	400KV BUS-II at Subhasgram	02/05/15	09:00	02/05/15	17:00 HRS	ODB	ER-II(KOL)	Bus Isolator AMP	WBSETCL
76	132KV Main BUS at Malda	03/05/2015	08:00	03/05/2015	11:00	ODB	ER-II(KOL)	BUS Isol. Alignment, WBSETCL-2 Feeder	
77	41252 Bay CB at Farakka	04/05/15	08:00	05/06/15	18:00	OCB	ER-II(KOL)	For CB & associated CT change under ERSS-XIII.	
78	400 KV BUS-II at Farakka	04/05/15	08:00	04/05/15	18:00	ODB	ER-II(KOL)	For removal of jumper from bus isolator.	
79	3 X 500 MVA ICT - 2 AT NRNC	04/05/15	08:00	04/05/15	18:00	ODB	ER-I	ERECTION OF AUXILIARY BUS FOR SPARE TRANSFORMER SWITCHING WORK.	
80	132 KV MAIN BUS AT PRN S/S	04/05/15	08:00	04/05/15	12:00	ODB	ER-I	FOR RECONDUCTORING OF 132KV TRANSFER BUS FOR THE PART- TBC,BSEB-1,2 & ICT-3 BAYS (FOR SECTIONALISATION OF BUS)	BIHAR

81	132 KV MAIN BUS PART FOR TBC, BSEB-1,2 & ICT-3 BAYS AT PRN S/S	04/05/15	12:00	09/05/15	12:00	OCB	ER-I	FOR RECONDUCTORING OF 132KV TRANSFER BUS FOR THE PART- TBC,BSEB-1,2 & ICT-3 BAYS(CONSTRUCTION WORK). POWERFLOW TO BSEB WILL BE LIMITED TO 70 MW WITH ICT-1 & BSEB -3 & KISHANGANJ FEEDER IN SERVICE.	BIHAR
82	50 MVAR Bus Reactor at Rourkela	04/05/15	09:00	07/05/15	18:00	OCB	ER-II(OR)	For off-line drying out of reactor	
83	765kV, 240MVAR Bus Reactor-1 at Sundergarh	04/05/15	08:00	05/05/15	17:00	OCB	ER-II(OR)	Fire fighting testing and attending defects in fire fighting system.	NLDC
84	400kv Maithon-MPL-I	04/05/15	09:00	06/05/15	17:00	ODB	ER-II(KOL)	Isolator Arm Replacement and AMP of Line Bay.	MPL/ MAY BE DONE DURING 11
85	220KV WBSETCL # 1 at Subhasgram	04/05/15	09:00	04/05/15	18:00	ODB	ER-II(KOL)	AMP and hotspot rectification	WBSETCL
86	400KV Maithon-Jamshedpur	04/05/15	07:00	07/05/15	18:00	ODB	ER-II(KOL)	Insulator replacement at hifhway/rly crossing	
87	400 KV BARH ICT - I	04/05/2015	09:30	09/05/2015	17:00	OCB	NTPC	PM OF CVT, CT, LA, ISOLATOR, CB	
88	315 MVA ICT at Farakka	05/05/15	08:00	05/05/15	18:00	ODB	ER-II(KOL)	For removal of jumper from LINE isolator.	JHARKHAND
89	400KV BOKARO-KODERMA D/C	05/05/15	08:00	06/05/15	18:00	ODB	ER-I	FOR ATTENDING DAMAGED INSULATORS & CONDUCTOR DAMAGED BY MISCREANTS.	DVC
90	400KV BSF-BALIA-1	05/05/15	09:00	05/05/15	13:00	ODB	ER-I	FOR AMP WORK.	NLDC
91	400KV S/C Rengali-Indravati	05/05/15	08:00	06/05/15	17:00	ODB	ER-II(OR)	For completion of stringing for the power line crossing span 95/0-96/0 of 765KV Angul-Jharsuguda Line-I (part-I) under constrution.	NLDC
92	400 KV BUS-2 at Sundargarh	05/05/15	08:00	07/05/15	17:00	OCB	ER-II(OR)	For erection of extra BPI for Bus CVT support..	
93	220 KV BRP-NSLG-CHP-III	05/05/15	09:00	10/05/15	18:00	ODB	ER-II(KOL)	Isolator retrofitting under ADDCAP	
94	220KV Birpara-Malbase	05/05/15	09:00	05/05/15	18:00	ODB	ER-II(KOL)	AMP and hotspot rectification	WBSETCL
95	400 KV Kahalgaon - Maithon - I	05/05/2015	09:30	06/05/2015	13:00	OCB	NTPC	CVT Replacement	
96	220KV WBSETCL-II AT SUBHASGRAM	05/05/15	09:00	05/05/15	18:00 HRS	ODB	ER-II(KOL)	AMP and hotspot rectification	
97	315MVA ICT-V at Malda & 400KV BUS-I	05/05/2015	07:00	05/05/2015	19:00	ODB	ER-II(KOL)	Rectification of BUS-I isol. B/C and NPRN-II	WBSETCL
98	765 KV B/R -1 AT NRNC	06/05/15	08:00	06/05/15	18:00	ODB	ER-I	STABILITY FOR SPARE REACTOR SWITCHING .	NLDC
99	400KV BUS-1 AT GAYA	06/05/15	08:00	07/05/15	18:00	ODB	ER-I	FOR ISOLATOR REPLACEMENT & JUMPERING WORKS UNDER BAY EXTENSION PKG WORK	
100	400KV BSF-BALIA-2	06/05/15	09:00	06/05/15	13:00	ODB	ER-I	FOR AMP WORK.	NLDC
101	220KV MAIN BUS - 2 & 220KV TBC Bay at Siliguri	06/05/15	08:00	06/05/15	12:00	ODB	ER-II(KOL)	Isolator Retrofitting under ADDCAP	
102	400 KV MALDA-FARAKKA-II	06/05/15	08:00	06/05/15	18:00	ODB	ER-II(KOL)	For erection of new CB at Malda. Clearance issue.	NLDC
103	ICT-I at Subhasgram	06/05/2015	09:00	08/05/2015	17:00 HRS	OCB	ER-II(KOL)	OLTC oil migration , Hotspot rectification and AMP	WBSETCL
104	400KV ICT-2 at Jaypore	07/05/15	09:00	07/05/15	17:00	ODB	ER-II(OR)	For AMP works	OPTCL
105	765kV, 240MVAR Bus Reactor-2 at Sundergarh	07/05/15	08:00	08/05/15	17:00	OCB	ER-II(OR)	Fire fighting testing and attending defects in fire fighting system.	NLDC
106	400 KV FARAKKA - KAHALGAON - 2	07/05/2015	08:00	13/05/2015	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS.	
107	400 KV Rourkela - Jamshedpur # 2	08/05/15	09:00	08/05/15	09:15	ODB	ER-II(OR)	For isolating its Line Reactor to carry out off-line drying out	
108	50 MVAR Jamshedpur - II Line Reactor at Rourkela	08/05/15	09:15	14/05/15	18:00	OCB	ER-II(OR)	For off-line drying out of reactor	
109	400kv Maithon-MPL-II	08/05/15	09:00	10/05/15	17:00	ODB	ER-II(KOL)	Isolator Arm Replacement, Strung bus repair,oil sampling of Y-Ph line CT (Alstom make).	MPL/ MAY BE DONE DURING 15 TO 20
110	400 KV FARAKKA - SAGARDIGHI	08/05/2015	09:00	08/05/2015	17:30	ODB	NTPC	BAY MAINTENANCE	WBSETCL
111	765 KV B/R -2 AT NRNC	09/05/15	08:00	09/05/15	18:00	ODB	ER-I	STABILITY FOR SPARE REACTOR SWITCHING .	NLDC
112	132 KV MAIN BUS AT PRN S/S	09/05/15	12:00	09.05.15	16:00	ODB	ER-I	FOR RECONDUCTORING OF 132KV TRANSFER BUS FOR THE PART- TBC,BSEB-1,2 & ICT-3 BAYS(JOINING OF SECTIONALISED BUS). AFTER THE WORK NORMAL LOADING FOR BSEB WILL START.	BIHAR
113	220 KV Bus - I at Rourkela	09/05/15	09:00	09/05/15	18:00	ODB	ER-II(OR)	AMP Work	OPTCL
114	400 KV Meramundli - Angul Ckt 1	09/05/15	07:00	10/05/15	18:00	ODB	ER-II(OR)	Replacement of insulator in polluted area & crossings by Angul TLM. Balance construction works by 765KV Angul ss	NLDC
115	220KV BUS-1 AT PRN	10/05/15	08:00	11/05/15	18:00	OCB	ER-I	FOR ERECTION OF NEW MAIN BUS-1 ISOLATOR ICT-2 BAY 220KV SIDE.NO POWER INTERRUPTION.	
116	400kv Maithon-MPL-I	11/05/15	07:00	14/05/15	18:00	ODB	ER-II(KOL)	Insulator replacement at hifhway/rly crossing	MPL
117	220 KV Bus - II at Rourkela	11/05/15	09:00	11/05/15	18:00	ODB	ER-II(OR)	AMP Work	OPTCL
118	400KV Angul-Meramundali CKT-II	11/05/15	08:00	20/05/15	17:00	OCB	ER-II(OR)	For rectification of tower(13B/0) & jumper rectification work of LILO of 400KV Tal Mer line at Angul for attending construction defects by Angul TLC. Replacement of insulator in polluted area & crossings by Angul TLM. Balance construction works by Angul SS.	GMR & JITPL GENERATION MAY BE REVIEWED
119	400KV ANGUL-TALCHER LINE	11/05/15	08:00	20/05/15	17:00	OCB	ER-II(OR)		GMR & JITPL GENERATION MAY
120	765kV, 240MVAR Angul Line Reactor-2	11/05/15	08:00	12/05/15	17:00	OCB	ER-II(OR)	Fire fighting testing and attending defects in fire fighting system.	NLDC
121	400 KV BUS-1 at Sundargarh	11/05/15	08:00	13/05/15	17:00	OCB	ER-II(OR)	For erection of extra BPI for Bus CVT support..	

122	220 KV BRP-NSLG-II	11/05/15	09:00	16/05/15	18:00	ODB	ER-II(KOL)	Isolator retrofitting under ADDCAP	
123	400 KV Jeerat Bus Reactor	11/05/15	09:00	11/05/15	18:00	ODB	ER-II(KOL)	Isolator Replacement , LA Replacement and AMP	WBSETCL
124	220KV MAIN BUS - 2 at Siliguri	11/05/15	08:00	11/05/15	12:00	ODB	ER-II(KOL)	Isolator Retrofitting under ADDCAP	
125	400KV MTN-KHG-II Line with LR	11/05/15	09:00	11/05/15	14:00	ODB	ER-II(KOL)	Y-PH CVT Replacement	
126	220KV Birpara-NSLG-II	11/05/2015	09:00	16/05/2015	17:00 HRS	OCB	ER-II(KOL)	Isolator retrofitting under ADDCAP	NO power interruption
127	80MVAR BUS Reactor-I at rangpo	11/05/2015	07:00	12/05/2015	14:00	ODB	ER-II(KOL)	CSD Commissioning	
128	765 KV L/R OF 765 KV RNC - DHARAMJAYGARH AT NRNC	12/05/15	08:00	12/05/15	18:00	ODB	ER-I	STABILITY FOR SPARE REACTOR SWITCHING .	NLDC
129	220KV BUS-2 AT PRN	12/05/15	08:00	13/05/15	18:00	OCB	ER-I	FOR ERECTION OF NEW MAIN BUS-2 ISOLATOR ICT-2 BAY 220KV SIDE.NO POWER INTERRUPTION.	
130	400KV BUS-2 AT GAYA	12/05/15	08:00	14/05/15	18:00	ODB	ER-I	FOR ISOLATOR REPLACEMENT & JUMPERING WORKS UNDER BAY EXTENSION PKG WORK	
131	400 KV Rourkela - Talcher # 1	12/05/15	09:00	13/05/15	18:00	ODB	ER-II(OR)	Modification of Line Isolator (Hivelm Make) for converting gang operated mechanism to individual operated mechanism.	
132	400KV Bus -I at Bolangir	12/05/15	09:00	12/05/15	17:00	ODB	ER-II(OR)	AMP Works & Rectification works on Bus-side isolator	
133	400 KV Subhasgram – Jeerat Line	12/05/15	07:00	14/05/15	18:00	OCB	ER-II(KOL)	Bph CVT replacement and Breaker retrofit at Jeerat End	WBSETCL
134	400 KV MALDA-FARAKKA-II	12/05/15	08:00	31/05/15	18:00	OCB	ER-II(KOL)	For erection of new 89T, CVT, WT & 89L at Malda. Clearance issue.	NLDC
135	400 KV Rangpo-Binaguri-II & I	12/05/15	08:00	22/05/15	18:00	OCB	ER-II(KOL)	Erection of Tower at LOC 40	DURING SHUTDOWN PERIOD TEESTA GENERATION WILL BE
136	80MVAR BUS Reactor-II at Rangpo	12/05/2015	14:00	13/05/2015	18:00	ODB	ER-II(KOL)	CSD Commissioning	
137	400 KV Rourkela - Jamshedpur # 2	14/05/15	18:00	14/05/15	18:30	ODB	ER-II(OR)	For taking its Line Reactor into service after carrying out its off-line drying out.	
138	400 KV Rourkela - Talcher # 2	14/05/15	09:00	15/05/15	18:00	ODB	ER-II(OR)	Modification of Line Isolator (Hivelm Make) for converting gang operated mechanism to individual operated mechanism.	
139	400KV Bus -II at Bolangir	14/05/15	09:00	14/05/15	18:00	ODB	ER-II(OR)	AMP Works & Rectification works on Bus-side isolator	
140	765/400 KV ICT-I at Anugul	14/05/15	08:00	14/05/15	15:00	ODB	ER-II(OR)	BALANCE CONSTRUCTION WORK	NLDC
141	400 KV FARAKKA - MALDA - I	14/05/2015	09:00	14/05/2015	17:30	ODB	NTPC	BAY MAINTENANCE	WBSETCL
142	400 KV D/C Binaguri - New Purnea - III & IV(POWERLINK)	15/05/15	07:00	25/05/15	18:00	OCB	ER-II(KOL)	Erection of Towers & Stringing of both CKT. LILO of 400 KV D/C Binaguri -New Siliguri (CKT. III & IV, POWERLINK) at Kisangnaji S/s.	NLDC
143	765/400 KV ICT-IV at Anugul	15/05/15	08:00	15/05/15	15:00	ODB	ER-II(OR)	BALANCE CONSTRUCTION WORK	NLDC
144	400kv, 3X16.67MVAR Keonjhar Line Reactor	15/05/15	07:00	18/05/15	16:00	ODB	ER-II(OR)	Oil filtration of B-Ph Unit	
145	315MVA ICT-I AT Maithon	15/05/15	09:00	15/05/15	17:00	ODB	ER-II(KOL)	Relay retrofitting,42489T (Y-Ph) Isolator arm replacement	DVC
146	220KV MAIN BUS - 2 at Siliguri	15/05/15	08:00	15/05/15	12:00	ODB	ER-II(KOL)	Isolator Retrofitting under ADDCAP	
147	400kv Maithon-MPL-II	15/05/15	07:00	20/05/15	18:00	ODB	ER-II(KOL)	Insulator replacement at hifhway/rly crossing	MPL
148	765 KV BUS-1 AT NRNC	16/05/15	08:00	22/05/15	18:00	ODB	ER-I	JUMPERING FOR 765 KV BUS -1 EXTENSION	NLDC
149	400 KV RANCHI - MAITHON , 400 KV RANCHI - RAGHUNATHPUR AND 220 KV SANTHALDIH - CHANDIL (OF WBSETCL)	16/05/15	10:00	16/05/15	17:00	ODB	ER-I	RECTIFICATION OF CLEARANCE PROBLEM BETWEEN 400 KV RNC - MTN / 400 KV RNC - RAGHUNATHPUR AND 220 KV SANTALDIH - CHANDIL LINE OF WBSETCL BETWEEN LOC. NO. 196-197 OF POWERGRID T/L	DVC
150	315 MVA ICT - I at Rourkela	16/05/15	09:00	16/05/15	18:00	ODB	ER-II(OR)	AMP Work	OPTCL
151	400 KV Subhasgram – Sagardighi Line	16/05/15	09:00	16/05/15	18:00	ODB	ER-II(KOL)	Raector AMP , Line AMP , Hotspot rectification , Illumination rectification	WBSETCL
152	3*16.67 MVAR L/R AT BARIPADA - KEONJHAR	16/05/2015	08:00	06/06/2015	16:00	OCB	ER-II(OR)	DRYING OUT DUE TO OIL PARAMETER VIOLATION	LINE WILL OUT FOR SWITCHING IN
153	315 MVA ICT - II at Rourkela	17/05/15	09:00	17/05/15	18:00	ODB	ER-II(OR)	AMP Work	OPTCL
154	100 MVA ICT-I at Birpara	17/05/15	08:00	19/05/15	17:00	ODB	ER-II(KOL)	Isolator retrofitting under ADDCAP	WBSETCL
155	400 KV BUS -1 AT NRNC	18/05/15	08:00	18/05/15	18:00	ODB	ER-I	JUMPERING FOR 400 KV BUS -1 EXTENSION	
156	220KV BUS-1 AT PRN	18/05/15	08:00	18/05/15	18:00	ODB	ER-I	FOR NEW CONDUCTORING/CONNECTION OF NEW MAIN BUS-1 ISOLATOR ICT-2	
157	MAIN BAY OF 765 KV GAYA - FATEHPUR AT GAYA	18/05/15	08:00	19/05/15	18:00	OCB	ER-I	TO ATTEND CB GAS LEAKAGE BY SERVICE ENGR.	NLDC
158	220 KV Rourkela - Tarkera # 1	18/05/15	09:00	18/05/15	18:00	ODB	ER-II(OR)	AMP Work	OPTCL
159	220KV MAIN BUS - 2 at Siliguri	18/05/15	08:00	18/05/15	12:00	ODB	ER-II(KOL)	Isolator Retrofitting under ADDCAP	
160	220KV BUS-2 AT PRN	19/05/15	08:00	19/05/15	18:00	ODB	ER-I	FOR NEW CONDUCTORING/CONNECTION OF NEW MAIN BUS-2 ISOLATOR ICT-2 BAY 220KV SIDE.NO POWER INTERRUPTION.	
161	315MVA ICT-1 AT CHAIBASA	19/05/15	09:00	19/05/15	18:00	ODB	ER-I	FOR CONSTRUCTION WORK OF 80MVAR B/R AT CHAIBASA	

162	220 KV Rourkela - Tarkera # 2	19/05/15	09:00	19/05/15	18:00	ODB	ER-II(OR)	AMP Work	OPTCL
163	220KV BUS-II at Subhasgram	05/19/15	09:00	05/19/15	17:00 HRS	ODB	ER-II(KOL)	204 Bay AMP and Bus-II Yph CVT Replacement	WBSETCL
164	400 KV BARH - PATNA - II	19/05/2015	09:30	20/05/2015	17:30	OCB	NTPC	PM OF ICT - 1, CT, LA, ISOLATOR, CB	
165	400 KV BUS - I AT KAHALGAON	20/05/2015	09:30	20/05/2015	13:00	ODB	NTPC	CVT Replacement	
166	400 KV BUS -2 AT NRNC	20/05/15	08:00	20/05/15	18:00	ODB	ER-I	JUMPERING FOR 400 KV BUS -2 EXTENSION	
167	Berhampore-Bheramara Ckt-II Main Bay	20/05/15	08:00	20/05/15	18:00	ODB	ER-II(KOL)	AMP	WBSETCL
168	400 KV Angul - Bolangir S/C line	21/05/15	07:00	30/05/15	18:00	ODB	ER-II(OR)	Replacement of insulator in polluted area & crossings by Angul TLM. Balance construction works by 765KV Angul ss. AMP works of Bolangir SS.	NLDC/ GMR & JITPL GENERATION MAY BE REVIEWED
169	220KV MAIN BUS - 2 at Siliquri	21/05/15	08:00	21/05/15	12:00	ODB	ER-II(KOL)	Isolator Retrofitting under ADDCAP	
170	400 KV BUS-I at Farakka	21/05/15	08:00	21/05/15	18:00	ODB	ER-II(KOL)	FOR RECONNECTION OF BUS ISOLATOR.	
171	400 KV BUS - II AT KAHALGAON	22/05/2015	09:30	22/05/2015	13:00	ODB	NTPC	CVT Replacement	
172	315MVA ICT-2 AT CHAIBASA	22/05/15	09:00	22/05/15	18:00	ODB	ER-I	FOR CONSTRUCTION WORK OF 80MVAR B/R AT CHAIBASA	
173	400KV Bolangir - Jeypore line.	22/05/15	09:00	22/05/15	17:00	ODB	ER-II(OR)	AMP works and rectification of construction defects in the line.	NLDC
174	Berhampore-Farakka Main Bay	22/05/15	08:00	22/05/15	18:00	ODB	ER-II(KOL)	AMP	
175	400KV Haldia - Subhasgram - I	23/05/15	09:00	23/05/15	18:00	ODB	ER-II(KOL)	AMP and hotspot rectification	WBSETCL
176	220 KV Main Bus-I at Birpara	23/05/15	09:00	23/05/15	11:30	ODB	ER-II(KOL)	Isolator retrofitting under ADDCAP	
177	220KV Birpara-Malbase	23/05/15	11:30	25/05/15	17:00	OCB	ER-II(KOL)	Isolator retrofitting under ADDCAP	
178	400 KV Rangpo-Binaguri-I	23/05/15	08:00	28/05/15	18:00	OCB	ER-II(KOL)	Erection of Tower at LOC 40	
179	400 KV Kahalgaon - Barh - I	23/05/2015	09:30	23/05/2015	13:00	ODB	NTPC	RELAY TESTING	
180	400KV Haldia - Subhasgram - II	24/05/15	09:00	24/05/15	18:00	ODB	ER-II(KOL)	AMP and hotspot rectification	WBSETCL
181	100MVA ICT-1 AT PRN	24/05/15	08:00	31/08/15	18:00	OCB	ER-I	FOR RETROFITTING OF OLD 100MVA ICT-1 BY A NEW 160MVA ICT(100DAYS S/D AS PROPOSED BY BHEL). SUBJECT TO COMMISSIONING OF NEW 160MVA ICT-2 ON OR BEFORE 20.05.15	BIHAR
182	220KV BUS-1 AT PRN	24/05/15	10:00	24/05/15	18:00	ODB	ER-I	FOR DISMANTALING OF ICT-1 BAY MAIN BUS-1 ISOLATORS.NO POWER INTERRUPTION.	
183	220KV BUS-2 AT PRN	25/05/15	08:00	25/05/15	18:00	ODB	ER-I	FOR DISMANTALING OF ICT-1 BAY MAIN BUS- 2 ISOLATORS.NO POWER INTERRUPTION.	
184	400 KV BHP – Jeerat Line	25/05/15	07:00	28/05/15	18:00	ODB	ER-II(KOL)	Breaker retrofit at Jeerat End under ADDCAP	NLDC
185	220KV MAIN BUS - 2 at Siliquri	25/05/15	08:00	25/05/15	12:00	ODB	ER-II(KOL)	Isolator Retrofitting under ADDCAP	
186	220 KV Bus II at Birpara	26/05/15	09:00	02/05/15	17:00	ODB	ER-II(KOL)	Bus Isolator AMP	
187	220KV Main Bus-I at Birpara	26/05/15	09:30	26/05/15	11:30	ODB	ER-II(KOL)	Isolator retrofitting under ADDCAP	
188	220KV Main Bus-II at Birpara	26/05/15	12:00	26/05/15	13:30	ODB	ER-II(KOL)	Isolator retrofitting under ADDCAP	
189	220KV Birpara-Malbase	26/05/15	13:30	28/05/15	17:00	OCB	ER-II(KOL)	Isolator retrofitting under ADDCAP	NLDC

Annexure-C.2

**Anticipated Power Supply Position for the month of
May-15**

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
i)	NET MAX DEMAND	3100	1463
ii)	NET POWER AVAILABILITY- Own Source	180	156
	- Central Sector	2254	1376
iii)	SURPLUS(+)/DEFICIT(-)	-666	69
2	JHARKHAND		
i)	NET MAX DEMAND	1200	755
ii)	NET POWER AVAILABILITY- Own Source	388	291
	- Central Sector	662	382
iii)	SURPLUS(+)/DEFICIT(-)	-150	-82
3	DVC		
i)	NET MAX DEMAND (OWN)	2613	1620
ii)	NET POWER AVAILABILITY- Own Source	4563	2383
	- Central Sector	356	229
	Long term Bi-lateral (Export)	1250	930
iii)	SURPLUS(+)/DEFICIT(-)	1056	62
4	ORISSA		
i)	NET MAX DEMAND	3900	2416
ii)	NET POWER AVAILABILITY- Own Source	2984	1867
	- Central Sector	1097	668
iii)	SURPLUS(+)/DEFICIT(-)	181	119
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAX DEMAND (OWN)	5488	3443
ii)	CESC's DRAWAL	480	89
iii)	TOTAL WBSEDCL's DEMAND	5968	3532
iv)	NET POWER AVAILABILITY- Own Source	3913	2174
	- Import from DPL	176	70
	- Central Sector	1834	1106
v)	SURPLUS(+)/DEFICIT(-)	-45	-182
5.2	DPL		
i)	NET MAX DEMAND	260	234
ii)	NET POWER AVAILABILITY	436	304
iii)	SURPLUS(+)/DEFICIT(-)	176	70
5.3	CESC		
i)	NET MAX DEMAND	1950	1089
ii)	NET POWER AVAILABILITY - OWN SOURCE	1050	703
	Import from Other Sources	370	89
	FROM HEL	530	297
iii)	TOTAL AVAILABILITY	1950	1089
iv)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAX DEMAND	7698	4766
ii)	NET POWER AVAILABILITY- Own Source	5399	3182
	- Central Sector	2364	1403
iii)	SURPLUS(+)/DEFICIT(-)	65	-182
7	SIKKIM		
i)	NET MAX DEMAND	85	35
ii)	NET POWER AVAILABILITY- Own Source	0	2
	- Central Sector	126	74
iii)	SURPLUS(+)/DEFICIT(-)	42	41
8	EASTERN REGION		
	At 1.03 AS DIVERSITY FACTOR		
i)	NET MAX DEMAND	18054	11055
	Long term Bi-lateral	1250	930
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	20374	12013
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	1070	27



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

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Dated/ 13.04.15

To

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

Sub: Inclusion in agenda of 108th OCC meeting on 17th April/2015 regarding allotment of 2 Nos. 132 kV bays at 400/220/132kV Substation, PGCIL-Baripada to OPTCL for 132kV Jaleswar Line 1 & 2

Sir,

With reference to the above, in 1st of 2012 Standing committee meeting of CEA on Power System Planning in Eastern Region held at NRPC, New Delhi on 08.02.2012, it was decided OPTCL to use two 132kV bays from available space at 132kV switchyard of 400/220/132kV Substation, PGCIL-Baripada. As such two numbers equipped bays are now available in the above grid S/S allotted for JSEB. The above two bays were earlier used by OPTCL for anti-theft charging of 220kV PGCIL Baripada - Balasore line. Hence the connection arrangement from gantry to three numbers PC towers is available from above two bays. As JSEB not utilizing these bays, the above two bays may be allotted to OPTCL. If in future JSEB make plan to take supply from Baripada PGCIL Grid the available space for two no. 132kV bays allotted to OPTCL can be utilized by JSEB. Hence, I would request you to kindly allow the above subject in the agenda of 108th OCC meeting to discuss the matter for releasing the bays to OPTCL for connectivity to 132kV Grid S/S, Jaleswar.

Yours faithfully,

[Signature]
 Chief General Manager(O&M)

CC to

1. Sr. GM (Cons-I), Bhubaneswar.
2. CGM (Cons), Bhubaneswar.
3. Sr.GM, (PS), SLDC, Bhubaneswar.
4. Director (Commercial) GRIDCO, Bhubaneswar.
5. EA to CMD OPTCL/ GRIDCO for kind information of CMD.

o/c