

Eastern Regional Power Committee **Kolkata-33**

Salient Decisions taken in 101st OCC meeting held on 26.09.14

1. On feeding the upcoming traction sub-station at Nagaruntari by constructing LILO from 132kV Rihand- Sonenagar tie transmission line, OCC advised Railway to take mutual consent from Bihar and Uttar Pradesh for making LILO on 132 kV Rihand-Sonenagar-I line. Further, OCC felt the proposal should be placed before standing committee on power system planning of ER for their guidance.
2. Regarding commercial issues of replacing insulators by Powerlinks, OCC felt the expert opinion would be placed in next commercial meeting for further decision.
3. On exemption of PPSP units from RGMO, OCC felt the issue is already pending in Appellate post CERC judgment on the same and advised WBSEDCL to place their justification before Appellate.
4. Regarding Kahalgaon bus-splitting scheme, NTPC informed that shortly they would submit the DPR to NLDC. Powergrid also informed that DPR for STATCOM would be submitted shortly to NLDC. OCC advised JSEB to submit the DPR immediately to NLDC.

Minutes of 101st OCC Meeting held on 26th Sep, 2014 at ERPC, Kolkata

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

Item no. A.1: Confirmation of minutes of 100th OCC meeting of ERPC held on 22.08.2014

The minutes were uploaded in ERPC website and circulated vide letter dated 01.09.14 to all the constituents. No comments were received till date.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 100th OCC Meeting.

PART B

Item no. B.1: O & M of 220kV Farakka –Lalmatia transmission system -- NTPC

Rajmahal area of ECL receives power supply from Farakka Super Thermal Power Station of NTPC through 220 kV Farakka –Lalmatia Transmission System (FLTS) at its Dhankunda sub-station, Lalmatia, JSEB.

220kV Farakka –Lalmatia transmission system (FLTS) was constructed by NTPC for which the fund was provided by ECL owner of the line is M/s. ECL. NTPC is doing the operation & maintenance of 220kV Farakka –Lalmatia transmission system along with its associated switchyard equipments and ECL is paying for the same.

At present JSEB is not only giving power to ECL Rajmahal but also to district Godda, Dumka through Farakka – Lalmatia line.

NTPC is facing a lot of problems in maintenance of the line as their expertise is in power generation, not in the transmission field. Recently, for restoration of collapsed tower of Farakka-Lalmatia transmission system, NTPC has taken help of PGCIL.

In view of above, it is requested to JSEB / PGCIL for operation & maintenance of 220kV Farakka –Lalmatia transmission system along with its associated switchyard equipments. NTPC will facilitate for transfer of operation & maintenance contract of 220kV Farakka –Lalmatia transmission system. M/S ECL has also consented for O & M agreement with JSEB / PGCIL, as discussed in ECL- NTPC meeting on dated 16.06.2014.

NTPC/ JSEB may update.

Deliberation in the meeting

JSEB informed that a meeting was held with ECL on 26th & 27th Aug, 2014 wherein ECL and JSEB agreed in principle and it has been taken up for ECL board approval.

Item no. B.2: Feeding the upcoming traction sub-station at Nagaruntari by constructing LILO from 132kV Rihand- Sonenagar tie transmission line---Railway

The Electrification of Garhwa Road- Chopan-Singrauli section in Dhanbad Division under East Central Railway is being carried out by Railway Electrification Danapur project under Central

Organisation for Railway Electrification, Allahabad. The above work was awarded on 15/10/2013 and is scheduled to be completed by 14/10/2015. The Electrification of the foresaid route shall include the construction of a Railway Traction Sub-Station (TSS) near Nagar Untari Railway Station for 2 phase connection with initial load of 3 MVA and extendable upto 21.6 MVA. It is pertinent to mention, that the upcoming Railway Traction Sub-Station is geographically located in Jharkhand State.

For feeding this Nagar Untari/TSS there are two options for power supply arrangement which are mentioned below:

- (i) From Garhwa Grid Sub- Station (Nearest GSS from proposed TSS), which is approx. 45Km away from proposed Nagar Untari TSS & there it requires a Transmission line of length 45 Km.
- (ii) From the 132kV Rihand –Sonenagar Tie Transmission Line after constructing a LILO arrangement and suitable transmission line up to the TSS (Traction Sub-Station). This proposal included the construction of a transmission line of 8 Km length along with the LILO arrangement on the Circuit-I of 132kV Rihand –Sonnenagar Transmission line. The said transmission line starts from Rihand (Uttar Pradesh) and passes via Jharkhand & finally terminates at Sonenagar(Bihar). It is pertinent to mention here that the Circuit-I of said transmission line is in charged condition and under No- Load.

It is in the National interest if this Traction Sub-Station is fed from above mentioned option (ii), as it involves construction of only 8 Km long transmission line to feed this TSS. The option (i) above will involve the construction of 45 Km transmission line, causing huge expenditure to be incurred.

In this regard the matter was discussed with JUSNL on 22.07.2014 & 25.08.2014 and JUSNL has agreed to take up the work mentioned in (ii) under deposit head provided permission is given by NRLDC, ERLDC, UPPTCL & BSPHCL and the letter for the same to all concerned has already has been sent by JUSNL.

Members may discuss and guide on,

- Feeding this TSS from Circuit-I of 132kV Rihand –Sonenagar Transmission line (Tie line) by providing LILO arrangement
- The institution / organisation from where the RE /DNR shall purchase the power and will execute the power purchase agreement.

Deliberation in the meeting

OCC advised Railway to take mutual consent from Bihar and Utter Pradesh for making LILO on 132 kV Rihand-Sonenagar-I line.

Further, OCC felt the proposal should be placed before standing committee on power system planning of ER for their guidance.

Item no. B.3: Agenda by Powergrid, Odisha

1) Maintenance of OPTCL Bays at Indravati s/s of POWERGRID: POWERGRID is attending to Routine & Emergency maintenances of OPTCL Bays located in Indravati s/s, in the overall interest of the system. The old Circuit Breakers (M/s BHEL make) need major overhauling urgently. OPTCL may be advised to take up the overhauling work and also to enter into formal agreement for Maintenance of the Bays by POWERGRID, as already communicated to M/s OPTCL.

Deliberation in the meeting

OCC advised Powergrid and OPTCL to resolve the issue bilaterally.

2) The 2 nos. of 315 MVA ICT's at Jeypore s/s are getting loaded up to 200 MW each many times. In such a scenario, tripping of any one ICT will lead to tripping of second ICT also. The ICT-I has already completed 25 years and its performance also getting deteriorated. Hence, it is proposed to approve for 3 rd ICT, in view of contingency & reliability.

Deliberation in the meeting

During deliberation on the issue, OPTCL explained that augmentation of transformation capacity as proposed by CTU may not be feasible at this juncture. It was informed that plan for proper load management in the affected areas are initiated and as implementation of the same, needs for augmentation of transformation capacity could only be ascertained.

OCC advised OPTCL to give their proposal for relief of ICTs.

3) Subsequent to formation of LILO of following two Transmission lines with Non-Switchable Line Reactors Resonance was observed due to over compensation and hence, the Line reactors may be converted to Switchable Line Reactors, by adding Circuit Breakers & associated equipment:

- Rourkela-Raipur Ckt.-I - LILOed at Raigarh & then at Sundargarh s/s become 145 Km with 63 MVAR Reactor
- Rengali-Kolaghat - LILOed at Baripada & then at Kenjher s/s become 100 Kms with 63 MVAR

Members may decide.

Deliberation in the meeting

Powergrid informed that severe arcing is being observed while closing the line due to over compensation.

OCC advised Powergrid to place the issue before its Corporate Engineering for further guidance.

Item no. B.4: Isolation of a part of Bus section at Anugul from 400kV Bus-II comprising of LILO of TSTPP-Meramundali at Anugul

At Anugul all the tie and main CBs have not yet been commissioned and the 400kV Bus-II is connected to Bus-I only vide the main and tie breakers of 400kV Meramundali-Anugul and 125MVAR B/R at Anugul. Also, the portion comprising of the LILO of 400kV TSTPP-Meramundali at Anugul is on a section of a Bus which is not connected to the Bus-II. This isolated section is however connected to Bus-I vide the main and tie breakers of the remaining two 125MVAR Bus Reactors at Anugul. This effectively means that Bus-II is connected to Bus-I only through one main/tie breaker(viz the main/tie breakers of Meramundali-Anugul and 125MVAR Bus Reactor-I). Due to the above configuration, in case of tripping of 400kV Meramundali-Anugul, Bus-I & II are segregated and 400kV Jeypore-Bolangir-Anugul trips on over-voltage as all 3 x125MVA Bus Reactors are segregated from Bolangir side and the long line of 400kV Jeypore-Bolangir-Anugul remains connected upto Bus-II at Anugul without any Bus Reactors.

The following are hence submitted in this regard:

- a) Powergrid may give the present position of Main/Tie breakers commissioned confirming the actual number of bays through which Bus-II and Bus-I are connected.
- b) Connect the isolated Bus Section to Bus-II as soon as possible.
- c) Furnish the programme for commissioning the remaining Main/Tie breakers which are presently not available.

ERLDC may explain.

Deliberation in the meeting

Powergrid informed that they have already applied for shutdown for connecting the part of Bus-II. Regarding commissioning of the remaining main/tie breakers it was informed that final schedule will be submitted after getting the schedule of Siemens.

OCC advised Powergrid to commission the remaining main/tie breakers and give the schedule within a week.

Powergrid agreed.

Item no. B.5: Over-voltage settings of EHV lines in ER

The over-voltage settings of 400kV lines in ER were sought for in the previous meetings and the data regarding the same collated. However, certain discrepancies have been observed in process of the compilations. The same would be presented in the meeting. Also, with a significant number of 765kV lines having been commissioned, the over-voltage settings for 765kV lines also need to be furnished. The latest status is circulated in the meeting.

ERLDC may update.

Deliberation in the meeting

ERLDC has given the details of substations for which the data is not available.

Members noted and agreed to provide the missing data.

Item no. B.6: Consent for changing of all 160 KN insulators in 400 KV D/C (Quad) Siliguri-Purnea Line & Purnea-Saharsha section of 400 KV Purnea-Muzaffarpur Line -- Powerlinks

There were frequent failure of 160 KN insulators in our 400 KV D/C (Quad) Siliguri-Purnea Line and Purnea-Saharsha section of 400 KV Purnea-Muzaffarpur Line. This in turn had made the line unreliable and the entire grid vulnerable.

Powerlinks took action for replacement of porcelain insulators by polymer insulators in phased manner but placed a proposal for sharing the cost of the replacement of insulators by constituents as the financial implication is huge and beyond the capability of Powerlinks.

The issue was discussed in OCC forums wherein Powerlinks placed report from CPRI on failure.

But Constituent members felt that these are porcelain insulators and are being used only for 5-6 years whereas normal life of such insulator is quite high. So the CPRI report pin pointing the cause of failure was not received enough consideration as convincing among constituents.

OCC therefore advised Powerlinks to replace the insulators as per schedule.

OCC also decided that on ascertaining the root cause of failure the proposal for cost sharing will be considered by Commercial sub-Committee.

OCC felt for a detail deliberation with CPRI specialists and O&M experts from constituents /educational institutes on the failure of such insulators.

- The opinion from experts will be sought shortly so that the same could be placed in Next CCM;
- In the meantime Powerlinks vide letter dated 8th September, 2014 requested for shut down of 400 KV Purnea-Muzaffarpur Circuit-I on daily basis from 9:00 Hrs to 17:00 Hrs from 25.10.2014 to 13.11.2014 to change the 160 KN porcelain insulators by polymer insulators.
- Powerlinks also proposed to treat the above outage required for replacement of 160 KN porcelain insulators by polymer insulators as deemed available as it is being done for the improvement of system reliability and Powerlinks is no way responsible for the present condition of the insulators. Last year, Powerlinks had replaced 160 KN insulators in 58 locations of Siliguri-Purnea Line and outage was considered as deemed available. This time also Powerlinks requested to treat all outages on account of replacement of 160 KN insulators as deemed available.

Members may decide.

Deliberation in the meeting

Powerlinks requested for shutdown of 400 KV Purnea-Muzaffarpur Circuit-I on daily basis from 9:00 Hrs to 17:00 Hrs from 05.11.2014 to 24.11.2014 to change the 160 KN porcelain insulators by polymer insulators.

OCC advised Powerlinks to place the shutdown proposal in next OCC. Powerlinks agreed. However, ERLDC informed that as it is an inter-regional line the shutdown proposal will be sent to NLDC for approval.

Regarding commercial issues, OCC felt the expert opinion would be placed in next commercial meeting for further decision.

Item no. B.7: Drawal of power from 400/ 132KV Lakhisarai(PG) by temporary LILO of existing 132 kV Lakhisarai-Jamui S/C

In 98th OCC, BSPTCL informed the status as follows:

1. Lakhisarai (PG) – Lakhisarai(BSPTCL) 132 kV D/c line – As per LOA, it will be completed by Aug, 2014.
2. Lakhisarai (PG) – Jamui (BSPTCL) 132 kV D/c line – will be completed by Feb, 2015.

BSPTCL vide letter dated 2nd July, 2014 informed that, presently work has been slow down due to monsoon and may not able to complete within target date. Hence, BSPTCL has planned to make LILO of 132 kV Lakhisarai-Jamui S/C at Lakhisarai(PG).

In 99th OCC, OCC requested Powergrid to do the needful for drawl of power from Lakhisarai (PG) through the temporary LILO of 132 kV Lakhisarai-Jamui S/C line at Lakhisarai (PG).

Powergrid informed that they will provide metering facility and protection settings. However, BSPTCL has to install PLCC system for communication as the PLCC system is not in the scope of Powergrid.

OCC advised BSPTCL to arrange for PLCC system for availing power as desired.

In 100th OCC, BSPTCL representative informed that procurement of PLCC system is in progress. Till commissioning of PLCC system, the GPRS communication will be used for data and voice communication.

BSPTCL informed that communication will be provided through dedicated mobile of GSS no. +91 77638-18060 & +91 77638-18053.

Powergrid informed that Jamui bay is not yet ready and it will be available by 10th September, 2014.

Powergrid asked for protection system details at BSPTCL end. In reply BSPTCL representative informed that CE (Transmission), BSPTCL is looking after this project and he may be contacted for further details.

OCC advised BSPTCL to share the protection details of BSPTCL end with Powergrid for proper protection settings & co-ordination.

Powergrid/BSPTCL may update.

Deliberation in the meeting

Powergrid informed that bay is ready and it will be charged on 26.09.14.

On enquiry, Powergrid informed that the voice communication through fiber optic cable will be made available by December, 2014 till that data will be provided through dedicated mobile communication.

Item no. B.8: Submission of DPR for R&U of protection and control system for funding from PSDF

In 28th TCC, Powergrid informed that they have submitted the DPR pertaining to URTDSM scheme and NLDC confirmed the same.

NLDC confirmed that they have received the DPRs from WBSETCL and OPTCL but not from DVC.

TCC advised DVC to resubmit the DPR to NLDC. DVC confirmed that they had already resubmitted the same to NLDC.

BSPTCL informed that they have submitted the DPR to ERPC on 12/09/2014. TCC advised BSPTCL to submit the DPR (Hard copy) to NLDC. BSPTCL agreed.

JUSNL informed that DPR for Jamshedpur and Chandil S/s have been completed and the DPR for rest of the JUSNL sub-stations will be completed within a month and submitted to NLDC.

In regard to Kahalgaon bus-splitting scheme after detailed deliberation in 28th TCC, NTPC informed in 28th ERPC that for funding Kahalgaon Bus Splitting scheme from PSDF necessary application will be placed before NLDC by it on behalf of beneficiaries.

28th ERPC also advised CTU to place the requisite application before NLDC for availing funding from PSDF for its STATCOM project.

Members may update the status.

Deliberation in the meeting

Regarding Kahalgaon bus-splitting scheme, NTPC informed that shortly they would submit the DPR to NLDC.

Powergrid also informed that DPR for STATCOM would be submitted shortly to NLDC.

OCC advised JSEB to submit the DPR immediately to NLDC.

Item no. B.9: Extension of Talcher-Kolar pole trip signal to JITPL for generation reduction

- i. On synchronization of SR and NEW grid in a special meeting in ERPC it was decided that, Sterlite, GMR and JITPL would share 600 MW generation relief through SPS in case of single/both pole tripping of HVDC Talcher-Kolar. In subsequent SPS meeting held on 08.05.14 then it was agreed that, the 600MW generation relief would be shared as given below when JITPL come into bar:

Sterlite- 350 MW, GMR- 150 MW and JITPL- 100 MW.

It was also decided that Powergrid will extend the digital signal to JITPL switchyard for implementation of the scheme.

In 28th TCC, Powergrid informed that the job is in progress and it would be concretised by next OCC scheduled to be held on 26th September, 2014.

Subsequently Powergrid vide mail dated 12.09.2014 has informed:

QUOTE:

A letter dated 04.09.14 has been given to GM (O&M), NTPC, Kaniha personally to help Powergrid in extending the trip signal to JITPL enclosing the letter from Member Secretary.

NTPC support and help is essential as the connectivity is from NTPC TSTPS Switchyard via PLCC to Angul S/S via PLCC to JITPL, Derang.

NTPC needs to given an input from the existing trip signal which is already available in NTPC Switchyard. The same arrangement was done for trip signal extension to GMR and SEL.

Meanwhile Angul S/S has been requested to complete inter panel wiring from PLCC panel of NTPC to PLCC panel of JITPL. Once NTPC is ready with the wiring and extension of signal upto respective PLCC panel , end to end testing can be done.

Further Angul S/S is also requested to check the end to end connectivity between Angul and JITPL once the inter panel wiring is completed at their end.

UNQUOTE

Powergrid & NTPC may update.

Deliberation in the meeting

Powergrid informed that the relay has been installed but not yet wired. Powergrid informed that it will be commissioned by 30th September, 2014.

- ii. In 99th OCC, ERLDC informed that both GMR and SSL failed to provide any generation relief during last Talcher-Kolar pole trip on 14.07.2014. GMR vide letter informed that they have not received the trip signal from Talcher end.

Since CTU has failed to place any official communication on the healthiness of SPS inspite of repeated request by OCC and ERPC Secretariat. TCC advised CTU to place all their observations along with their recommendations on the issue within a week to ERPC Secretariat so that further proceedings could be initiated.

Subsequently Powergrid vide mail dated 12.09.2014 has informed-

QUOTE:

- 1. Simulation test from NTPC, TSTPS, Kaniha to GMR, Kamlenga:** The simulation (generation of trip signal) was done at NTPC end and in the first instance the code increment was found in the concerned PLCC panel (Alstom make Digital panels) in both Channels 1 and 2 at NTPC end but the code increment did not happen at the GMR end. The issue was taken up with the counterpart at GMR end and they switched OFF and ON the PLCC panel and the simulation exercise was carried out again. During this time the counter increment at both NTPC and GMR ends were found which ultimately is connected to the tripping of Generators.

GMR may clarify the following:

- i) The reason for the problem in GMR end PLCC panel which would have prevented the receipt of trip signal at their end.
- ii) Weather GMR is using the AND or OR scheme for tripping of Generator viz. AND: when signal is received in both channels. OR: when signal is received in any one channel.

- 2. Simulation Test for NTPC, TSTPS, Kaniha to SEL, Jharsuguda:** The simulation test was carried out for NTPC, TSTPS, Kaniha to SEL, Jharsuguda (via Rourkela Powergrid station) and PLCC increment has been recorded in both Talcher and Rourkela station for both channels. Further the trip signal has also been received in the Ckt-II PLCC Channel at SEL end. This is further to inform that due to the tower collapse of the Rourkela-SEL Ckt-I, the simulation test for PLCC channel in Ckt-I could be tested upto Rourkela end.

SEL may clarify the following:

- i) Weather SEL is using the AND or OR scheme for tripping of Generator viz. AND: when signal is received in both channels. OR: when signal is received in any one channel.

UNQUOTE

Powergrid, GMR & SSL may update.

Deliberation in the meeting

Sterlite confirmed that OR scheme was implemented at their end.

Regarding GMR Powergrid informed that on that particular incident the PLCC system at GMR end was hanged. Otherwise the scheme is in working conditions.

OCC advised SSL, GMR, NTPC and Powergrid to maintain the scheme with regular check up.

Item no. B.10: New Islanding Schemes in Eastern Region

B.10.1. 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 99th OCC, Powergrid informed that the new estimate for procurement of above items is in approval stage by its appropriate authority but indicated that the amount would be around Rs. 53,41,889/- .It was informed that the final approved estimate will be submitted to JSEB by July, 2014.

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.

JSEB informed PGCIL to send the details to GM, Dumka for payment of the project estimate/cost incurred for PLCC checking as it comes under jurisdiction of Dumka.

In 28th TCC meeting, JSEB informed that they have received the estimate on 4th September, 2014 and they will release the payment by October, 2014.

Powergrid informed that implementation of the scheme will take five (5) months after receiving the amount. JSEB also assured to provide all the logistics as requested by Powergrid vide its letter to GM, Dumka.

NTPC informed that, implementation of the NTPC part will be completed by December, 2014.

Powergrid/ JSEB may update the status.

Deliberation in the meeting

JUSNL informed that the estimate has been sent to Headquarter for payment.

B.10.2. Chandrapura TPS Islanding Scheme, DVC

In 28th TCC meeting, DVC informed that order is yet to be placed for procurement of elements etc. towards execution of the scheme; the vendor did not qualify on certain technicalities and so representative from DVC expressed that it would not be possible to implement the islanding scheme by 30th October, 2014.

TCC stressed that Chandrapura TPS islanding scheme is an important one which was envisaged after grid disturbance of 2012. Discussions were held in last few TCC and ERPC meetings but the scheme is not yet initialized from DVC end.

The 28th ERPC reviewed the progress of the scheme and took serious note on performance of DVC towards execution of the scheme.

However, on request of DVC, 28th ERPC has extended the completion schedule to December, 2014 from 31st October, 2014 as earlier decided by 27th ERPC with specific direction to place the work order latest by 31st October, 2014.

ERPC has also further advised DVC to place the progress report on implementation of the CTPS islanding scheme to ERPC Secretariat in each fortnight.

DVC may update the status.

Deliberation in the meeting

DVC informed that the matter has been taken up with Head Quarter and the work order will be placed shortly on single bid system.

B.10.3. BkTPS Islanding Scheme, WBPDC

In 27th TCC/ERPC, WBPDC informed that LOA has been placed on 14th May, 2014 and the work will be completed by December, 2014 (+/- 2 months).

In 28th TCC meeting, WBPDC informed that it will be completed in schedule.

WBPDC may update the status.

Deliberation in the meeting

WBPDC informed that it will be completed in schedule.

B.10.4. Tata Power Islanding Scheme, Haldia

In 28th TCC meeting, WBSETCL informed that implementation of the scheme may take 2 more months and it will be implemented by January, 2015.

WBSETCL may update the status.

Deliberation in the meeting

WBSETCL informed that order has been placed for relay and other equipment. The fabrication work has been started and the scheme will be completed in schedule.

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

B.11.1. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

28th TCC expressed serious concern on failure of Sterlite in providing monthly progress report of commissioning of 400 kV Sterlite-Jharsuguda line to ERPC Secretariat in complete deviance with ERPC decision.

Sterlite informed that work order is yet to be placed and commercial negotiation is going on. The construction of the line will take 15 months from the date of award. Sterlite also informed that the forest clearance is still awaited and they are planning to divert some portion of the line where they are facing forest clearance. Therefore, Sterlite again pleaded for further extension by 15 more months.

But TCC did not agree and advised Sterlite for strict adherence to the date fixed by the 27th ERPC i.e. 31st March, 2015. TCC also advised ERLDC and NLDC not to schedule Sterlite after 31st March, 2015 if it fails to commission its ATS.

TCC also advised Sterlite to submit status report on regular monthly basis to ERPC Secretariat.

Sterlite may update.

Deliberation in the meeting

Sterlite informed that the order would be placed by this month for line and bay equipments.

B.11.2. Status of 400kV GMR- Angul D/C line.

In 28th TCC, GMR informed that they are facing serious ROW problem and the issues are being addressed.

ERLDC informed that presently GMR is allowed to evacuate 550 MW and in case the dedicated ATS is not brought in time, severe problem will be faced by the grid operators.

In line with OCC decision TCC also advised GMR to complete the line by end of October, 2014, failing which scheduling of GMR for evacuation of its generation through LILO could be discontinued.

GMR may update.

Deliberation in the meeting

Status could not be updated as GMR representative was not available in the meeting.

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

In 100th OCC, Chuzachen informed that the construction of these bays was undertaken by Govt. of Sikkim. Sikkim representative informed that the issue is under consideration of Sikkim Government.

Chuzachen may update.

Deliberation in the meeting

Status could not be updated as Sikkim representative was not available in the meeting.

B.11.4. Status of 400kV Maithon-Gaya and Koderma-Gaya D/C lines.

In 28th TCC, Powergrid informed that 400 kV Maithon-Gaya-II and Koderma-Gaya-II have been commissioned on 6th September, 2014.

Powergrid also informed that 400kV Maithon-Gaya-I and Koderma-Gaya-I will be commissioned by October, 2014.

Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that the ckt-I of both the lines will be completed by October, 2014.

B.11.5. Replacing/repairing of defective PLCC equipment at SgTPP end of 400 kV SgTPP-Farakka line

In 100th OCC, Powergrid informed that the PLCC system will be commissioned by 25th August, 2014.

In 28th TCC meeting, Powergrid informed that the PLCC system has been replaced in August, 2014 but it could not be commissioned because of non-availability of shutdown of the line. They are planning to commission the PLCC system on 12/09/2014.

Powergrid and WBPDCCL may update the status.

Deliberation in the meeting

Powergrid reported that the PLCC system has been commissioned.

B.11.6. Status of 80MVAR Line reactor of 400kV Meramundali-Angul at Meramundali

In 28th TCC, OPTCL informed that they have already installed a relay but yet to be configured. It is expected to be commissioned by end of September, 2014, latest by next OCC scheduled to be held on 26th September, 2014.

OPTCL and Powergrid may update.

Deliberation in the meeting

OPTCL informed that the relay has been arranged; now commissioning work is in the process for fixing the relay settings by Powergrid.

B.11.7. 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 Burla-Bolangir line at Bolangir (PG).
- (ii) Bolangir(PG) –Bolangir (OPTCL) S/C line.
- (iii) Bolangir(PG) –Kesinga S/C line.

In 100th OCC OPTCL informed the status as follows:

- (i) LILO of OPTCL's Burla-Bolangir line at Bolangir(PG) —Work is in progress and it would be completed by Nov, 2014
- (ii) Bolangir(PG) –Kesinga S/C line —Tender opened and completion schedule is Dec, 2015.

OPTCL may update the status.

Deliberation in the meeting

OPTCL informed that the status is same.

B.11.8. Power Evacuation from 400/ 220KV Daltanganj and Chaibasa Substations

In 96th OCC, Powergrid informed the status as follows:

1. 400/220 kV Daltanganj which will be connected to existing Daltanganj and Garwa S/s – ready by June, 15.
2. 400/220 kV Chaibasa which will be connected to Chaibasa S/s- ready by Sep, 2014.

In 99th OCC, Powergrid informed that 400/220kV Chaibasa S/s will be ready by September, 2014. However, the downstream system 220/132kV is to be made ready by JSEB as per the above schedule.

For 400/220 kV Daltanganj S/s, Powergrid informed that it is facing problem in land acquisition and the matter is continuously being taken up with State Govt.

In 100th OCC, JSEB updated the status on downstream system as follows:

1. **220/132 kV Daltanganj:** Land acquisition is in progress. 220/132 kV GSS at Daltanganj of JUSNL will be connected to existing 132/33 kV GSS at Daltanganj by 132 kV D/C transmission line and also the power will be extended up to Garhwa GSS for evacuation. JUSNL is taking keen interest to resolve the power crisis in this region and after land acquisition, tender for construction of 220/132 kV GSS will be published and it will take minimum 18 months for construction of such grids from the date of award.
2. **220/132/33 kV Chaibasa:** Construction of 220/132/33 kV GSS at Chaibasa is already in process and the scheme is under consultancy projects awarded to M/s PGCIL. The work is almost in completion stage and likely to be completed by the end of December' 2014. After completion of both GSS i.e. 400/220 kV Chaibasa (PGCIL) and 220/132/33 kV GSS at Chaibasa (JUSNL), above said grids will be connected by 220 kV D/C transmission line for which administrative approval has already been obtained.

For power evacuation at 132 kV level, JUSNL have planned to construct following 132 kV D/C, transmission line from 220/132/33 kV GSS at Chaibasa:

- a) 132 kV D/C Chaibasa – Gua transmission line and then 132 kV D/C, 3 phase Gua – Kiriburu transmission line (SAIL DEPOSIT WORK). Estimate has already framed by field officials and a meeting is scheduled to be held on 27.08.2014 with SAIL officials for decision.
- b) 132 kV D/C, Chaibasa – Chakradharpur transmission line
- c) 132 kV D/C, Chaibasa – Noamundi transmission line
- d) 132 kV D/C Chaibasa -Rajkharsawan line with construction of 132 kV bay at 132/33 kV Rajkharsawan grid.
- e) LILO of one Ckt of 132 KV D/C Noamundi- Chaibasa Transmission Line at 132/33 kV GS/S Kendposi including with 2 nos. of 132 kV bay.
- f) LILO of one Ckt of 132 KV D/C Chaibasa-Manoharpur Transmission Line at 132/33 kV GS/S at Goelkera including with 2 nos. of 132 kV bay.

Scheme from Sl. No. (b) to (f) could not be taken in financial year 2014-15 due to non-availability of fund from State Govt./ other sources. After availability of fund these scheme will be taken in financial year 2015-16.

Powergrid and JSEB may update the status.

Deliberation in the meeting

Powergrid informed the status as follows:

1. 220/132 kV Daltanganj:

- Land acquisition matter has been taken up with Jharkhand Govt. & expected to be resolved by January, 2015.
- Thereafter, 400/220kV Daltanganj S/s would be constructed by October, 2015.
- Powergrid requested JUSNL to expedite the construction of 220/132kV Daltanganj S/s for evacuation of power from 400/220kV Daltanganj S/s

2. 220/132/33 kV Chaibasa:

- 400/220kV Chaibasa S/s will be ready by October, 2014.
- Order has been received from JUSNL on 01.09.2014 for construction 220kV Chaibasa(PG)-Chaibasa(JUSNL).
- The construction work of 220/132kV Chaibasa S/s under consultancy project is being delayed due to non-receipt of payment from JUSNL.

B.11.9. Status of works related to Implementation of SPS for 500MW round the clock power through HVDC Bheramara

In 100th OCC, Powergrid informed the status as follows:

- Line reactor of Behrampur-Jeerat will be converted into switchable bus reactor: tendering completed and expected by March, 2015.
- 400 kV Sagardighi-Behrampur D/C (HTLS twin): Work has been awarded and will be commissioned by Dec, 2014.

Powergrid may update the status.

Deliberation in the meeting

Powergrid informed that the work is going on as per schedule.

B.11.10. Modification of 132kV Bus arrangement at 220/132kV Purnea Sub-station of POWERGRID

In 100th OCC, Powergrid informed that work was awarded and post award discussions were going on.

Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that work order is expected to be awarded in September, 2014.

B.11.11. Augmentation of Transformation Capacity in PGCIL Grid S/s at Muzaffarpur, Purnea, Sampatchak(Patna) & Sasaram-- BSPHCL

The above said scheme was approved by the Standing Committee and also concurred by the ERPC Board meeting. PGCIL, under Agenda Item no. B 19.10 of the 26th ERPC meeting held on 18.01.2014 had informed that NIT for augmentation of the transformation capacity at above said places will be issued by 18.01.2014. LOA is expected by June, 2014 and Commissioning schedule is 24 months from the date of issue of LOA.

In 27th TCC, Powergrid informed that, the work will be awarded by July, 2014 and agreed to make efforts to squeeze the schedule progressively.

In 28th ERPC, Powergrid informed that they will update the latest status in OCC.

Powergrid may update the status.

Deliberation in the meeting

Powergrid informed that the work order has been placed on 20.06.2014 for augmentation of the transformation capacity at Purnea, Sampatchak(Patna) & Sasaram. The work is expected to be complete by January, 2016.

For Muzaffarpur the order is expected to be placed on October, 2014.

Item no. B.12: High voltage problem at 400kV Jeypore OPTCL Substation—OPTCL

In 99th OCC, Powergrid reported that ICT tap position at 400kV Jeypore S/s has been changed from 16 to 14 as per the decision of OCC. ERLDC informed that voltage profile has improved (around 3-4 kV in 220 kV side) after changing the ICT tap position. It was also informed that voltage profile will further improve after the installation of 125 MVAR bus reactor at Jaypore (PG).

Subsequently, OPTCL vide dated 4th August, 2014 informed that the high voltage problem is still persisting at Jeypore (PG) and requested for further lowering the tap position to resolve the issue.

In 100th OCC, ERLDC informed that they are doing study for further lowering the ICT Tap Position.

On enquiry, Powergrid informed that there was some space issues for installation of 125 MVAR reactor at Jeypore S/s, but the same was resolved and it will be installed as soon as it reaches the site.

Powergrid may update.

Deliberation in the meeting

OPTCL has submitted the voltage data from 01.09.2014 to 21.09.2014 and informed that the maximum voltage is recorded as 246kV & minimum is 238kV.

OPTCL informed that at present ICT tap position at 400kV Jeypore S/s is at tap position 14 and requested for further lowering of ICT tap position by two taps.

ERLDC informed that they will study and report.

Item no. B.13: Status of “Third Party Protection Audit”

List of the observations along with updated compliances received from the constituents made available in reports of ERPC website (www.erpc.gov.in).

Members may update.

Deliberation in the meeting

Regarding Third Party Protection with CPRI, OPTCL informed that till date they have not received any communication from CPRI.

Item no. B.14: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.

The activity of the preparation of Crisis Management Plan for countering the cyber attacks and its implementation including the Mock Drills, audits etc. is being monitored by CEA regularly in line with crisis management plant of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

NTPC communicated their activity of the preparation of Crisis Management Plan for countering the cyber attacks vide letter dated 2nd August, 2013. In 88th OCC, constituents requested for another workshop on this issue. OCC agreed and requested NTPC and CESC to share their scheme in the workshop.

Members may note and comply.

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 nominate their Nodal officers as advised.

Deliberation in the meeting

Members noted.

Item no. B.16: Restricted Governor Mode of Operation

The latest status of units of ER under RGMO is circulated in the meeting.

Members may update.

Deliberation in the meeting

WBSEDCL informed that the PPSP machines were installed in 2007 and at that time the 10 % droop characteristics was not considered due to which the RGMO implementation is difficult.

Moreover, this plant is pumping back the water from the tail race to the dam during off-peak hours and uses the same water for generation during peak hours or when system is there. The plant is in generating mode for only six hours. Therefore, it cannot be treated at par with the conventional hydro power plant.

WBSEDCL has expressed that the PPSP should not be treated as conventional hydro power plant and taken as special case for exemption from putting the units in RGMO.

It was informed that the issue is already pending in Appellate post CERC judgment on the same.

As ERPC forum has no authority to allow exemption, OCC advised WBSEDCL to place their justification before Appellate.

Item no. B.17: Pollution mapping for Eastern Region -- Powergrid

For this work concerned constituents were to complete a grid map with GPRS coordinates in respective control area. In 27th TCC, OPTCL, BSPHCL, WBSETCL and JSEB assured to identify the location as per the excel format and agreed to submit by 15th June, 2014.

But the work of identification of location was not completed by 15th June in spite of regular persuasion from OCC.

In line with OCC decision a special meeting was arranged on 8th August, 2014 at ERPC, Kolkata to assess status of completion of base works needed to start actual Pollution Mapping work on-site. A special training programme was also arranged in ERPC on 27th/28th August.

In all these follow up actions constituents were repeatedly requested to

- To identify the locations as per 25x25 grid map with GPRS coordinates;
- To position one dummy insulator in the identified location
- To send the consignee details for facilitating CPRI/CTU to send the requisite kits for carrying out pollution mapping on site.

The latest status on the Pollution Mapping is as follows:

Utility	Scope	Dummy Insulators Installed	Balance grids (Pending Location)	Co-coordinators	Consignee Address (For receiving test kits)
BSPTCL	59	44 (only 38 grids effective)	21	Shri Brij Mohan AEE, BSPTCL	Assistant Executive Engineer Transmission circle store, Fatuha, 220/132/33 KV Grid Sub-station, Fatuha, Pin-803201
JUSNL	67	23 (only 15 grids effective)	52	Shri Ajay Prasad, ESE, CRITIL, JUSNL	
WBSECTL	74	52 (only 41 grids effective)	33	Shri Ram Prasad Mandal, SE(E), WBSETCL	
WBSEDCL					
OPTCL	164	69 (only 48 grids effective)	116	Shri Jayant Senapati, DGM (Elect.) OPTCL	
Sikkim	6	0	6	Jeewan Thapa, EE (EHV)	
POWERGRID ER 1	96	96	0		
POWERGRID ER 2	43	43	0		
POWERGRID Odhisa	43	43	0		

In 28th TCC, members felt that so many pending locations are under the control area of Distribution companies and advised the DISCOMs also to nominate their coordinators for the pollution mapping work.

TCC members agreed to coordinate with their respective DISCOMs for completion of the preliminary works under the scheme in distribution area.

Concerned members of TCC further agreed to complete the grid map and positioning of dummy insulators in respective control areas latest by end of September, 2014.

TCC advised transmission and distribution wings of Odisha, Jarkhand, West Bengal and Sikkim to nominate their coordinators, if not already given and the name and address details of consignee within a week to CTU/ERPC Secretariat.

Powergrid may update the status.

Deliberation in the meeting

Powergrid informed that consignee address has received from all constituents and updated rest of the status as follows:

Utility	Scope	Dummy Insulators Installed	Balance grids (Pending Location)	Co-coordinators
BSPTCL	59	44 (only 38 grids effective)	11	Shri Brij Mohan AEE, BSPTCL
JUSNL	67	23 (only 15 grids effective)	40	Shri Ajay Prasad, ESE, CRITIL, JUSNL
WBSECTL	74	52 (only 41 grids effective)	27	Shri Ram Prasad Mandal, SE(E), WBSETCL
WBSEDCL				
OPTCL	164	69 (only 48 grids effective)	116	Shri Jayant Senapati, DGM (Elect.) OPTCL
Sikkim	12	7	5	Jeewan Thapa, EE (EHV)
POWERGRID ER 1	96	96	0	
POWERGRID ER 2	43	43	0	
POWERGRID Odhisa	43	43	0	

OCC advised Powergrid to communicate the issue to ERPC and TCC members of the respective constituents.

Powergrid agreed.

Item no. B.18: 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.

Members may note and update the status.

Deliberation in the meeting

Members noted.

Item no. B.19: Procurement of Emergency Restoration System (ERS Towers) for Eastern Region constituents- Powergrid

Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that FR is under approval stage.

Item no. B.20: Mock Black start exercises in Eastern Region – ERLDC

i) The status of black start exercises

In 100th OCC, OHPC informed that reservoirs of both Rengali HEP and U.Indravati HEP are under spilling condition and they rescheduled the Black start exercise as follows:

- i. Rengali HEP :- Last week of September, 14
- ii. U. Indravati HEP :- Last week of September, 14

OHPC/ERLDC may update.

Deliberation in the meeting

OHPC updated the status as follows:

- i. Rengali HEP :- Black start exercise was successfully carried out on 19th September, 2014
- ii. U. Indravati HEP :- Units were running on full capacity, will be carried out when water gets depleted preferably in October, 14

ii) Testing of DG sets meant for Black start

Report regarding test run of DG sets for the month of Aug, 2014 has not been received from any of the constituents. All test reports may be forwarded to erldc.cal@gmail.com & psdas_psd@yahoo.com.

Constituents may kindly ensure compliance.

Deliberation in the meeting

Members noted.

Item no. B.21: 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.

CTU may update.

Deliberation in the meeting

Updated status is available in Annexure-B.21.

Replacement of RTUs at Kahalgaon, NTPC

In 100th OCC, Powergrid informed that order has been finalized, the generator and bus voltage data will be made available to ERLDC by 15th September, 2014. The rest of the data will be restored in another four (4) months.

In 28th TCC, Powergrid informed that work is in progress for restoration of the generator and bus voltage data and will be made available by 15th/16th September, 2014. The rest of the data will be restored in another two (2) months.

Concerned Member may update.

Deliberation in the meeting

Powergrid informed that LOA has been placed to M/s. Deejay. RTU integrated & Unit side data (MW/MVAR) made available at ERLDC as per commitment. Other feeders integration will be done by in phase manner within December 2014.

Item no. B.22: Black start and Restoration procedure of Eastern region- ERLDC

Back start and restoration procedure of Eastern Region was updated by ERLDC on 30.11.13. Prior to updation a draft copy of same was circulated to all the constituents of eastern regional via email dated 15th November 2013 seeking comments as well as updates on following issues:

- a) Details of 220kV and above substation(s) not having synchronizing facility for synchronization of islands and time schedule for providing the same.
- b) Details of Minimum auxiliary power requirement and survival power requirement by unit/plant wherever left blank in the document

Data has been received from all constituents.

ERLDC may update the status.

Deliberation in the meeting

Members noted.

Item no. B.23: Reactive Power performance of Generators and GT tap position optimization

- a) **Review of reactive power generation/drawal of generators vis-à-vis 400kV station bus voltage of units**

Maximum and minimum voltage was observed (data taken from SCADA)
Generating stations have been monitored for sample dates in the month of August, 14:

Power Plant	Max and Min Voltage observed for August 14 (KV)	Date for monitoring (August 2014)
Farakka STPS	422, 410	4,10,31
Khalgaon STPS	Data not Available	NA
Talcher STPS	410, 400	23,24
Teesta	404,398	26,27
Bakreshwar TPS	410, 387	16,31
Kolaghat TPS	421, 395	15,31
Sagardighi TPS	422, 406	10,15
MPL	422, 415	10,14
Mejia-B	426, 417	10,15
DSTPS	427, 420	10,15
Adhunik TPS	424, 416	29, 30
Sterlite	427, 410	04,10

ERLDC may update.

Deliberation in the meeting

ERLDC presented the performance of the generators. 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

MPL was requested to submit MW, MVAR, voltage data of both HV and LV side of GT/Generator terminal for the past months and GT tap details for analysis, so that decision on the required tap position could be decided in next OCC. MPL agreed to provide the required data to ERLDC.

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 99th OCC, DVC informed that DSTPS tap will be changed after ensuring the improvement of voltage profile is sufficient for synchronization of units, which will be checked by opening 400 kV DSTPS-Jamshedpur line during shutdown of both the units.

MPL informed that the required data had been submitted to ERLDC. The status of Adhunik units could not be updated as they were not available in the meeting.

Thereafter, ERLDC informed that data from MPL has been received and the same is being studied for requirement of change of GT tap position.

In 100th OCC, Adhunik informed that their unit #2 was under long shutdown due to stator earth fault. They will change their tap before synchronization of unit #2.

ERLDC and Adhunik may update the status.

Deliberation in the meeting

*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.*

PART C:: OPERATIONAL PLANNING

Item no. C.1: Shutdown proposal of transmission lines and generating units for the month of Oct' 14

Members may also finalize the Shutdown proposals of the generating stations and transmission lines for the month of Oct' 14 is circulated in the meeting.

Members may confirm.

Deliberation in the meeting

*Approved maintenance programme of generating stations and transmission elements for the month of October, 2014 is at **Annexure-C.1**.*

Item no. C.2: Anticipated power supply position during Oct'14

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of Oct'14 were prepared by ERPC Secretariat on the basis of Provisional LGBR for 2014-15, keeping in view that the units are available for generation and expected load growth etc. and circulated in the meeting.

Members may confirm.

Deliberation in the meeting

*Modified anticipated power supply position for the month of Oct, 2014 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	3	210	15.06.14	HYDROGEN LEAKAGE	
MEJIA	2	210	05.09.14	COAL SHORTAGE	
MEJIA B	8	500	03.08.14	COAL SHORTAGE	
BOKARO B	3	210	01.09.14	BOILER TUBE LEAKAGE	
BOKARO B	2	210	16.09.14	COAL SHORTAGE	
KODERMA	1	500	20.07.14	ASH POND PROBLEM	
KODERMA	2	500	04.08.14	ASH POND PROBLEM	
IB THERMAL	1	210	26.08.14	GT PROBLEM	
KOLAGHAT	5	210	24.08.14	STATOR EARTH FAULT	
BANDEL	5	210	16.11.13	MAINTENANCE	
APNRL	2	270	20.08.14	STATOR EARTH FAULT	

GMR	3	350	07.08.14	ASH HANDLING PROBLEM	
STERLITE	2	600	08.06.14	TURBINE VIBRATION	
STERLITE	1	600	16.09.14	HIGH TURBINE BEARING	
TALCHER STPP	2	500	04.08.14	AMP	
FARAKKA STPP	5	500	22.08.14	OVER HAULING	
KAHALGAON	5	500	25.08.14	ANNUAL OVERHAULING	
JITPL	1	600	16.08.14	LEAKAGE IN STATOR	
DPL	8	250	07.08.14	BOILER TUBE LEAKAGE	
DSTPS	1	500	08.09.14	COAL SHORTAGE	

(ii) Transmission elements

Name of the Line/Element	Outage Date	Reason	Date of restoration
220 KV JEERAT - SATGACHIA D/C	15.06.10	DUE TO LAND SLIDE OF GANGES RIVER BANK	
220 KV MENDHASAL - NARENDRAPUR - II	12.10.13	TOWER COLLAPSE	
220 KV TSTPP-MERAMUNDALI-I	24.05.14	S/D AVAILED BY OPTCL FOR CT PROBLEM AT MERAMUNDALI	
220 KV BALIMELA - U' SILERU	26.05.14	LINE IDLE CHARGED FROM U.SILERU END SINCE 19:55 OF	
220 KV THERUBALI-INDRAVATHI -III & IV	24.06.14	TOWER COLLAPSE AT LOC 47	
315 MVA 400/22KV ICT-II AT BARIPADA	04.09.14	S/D AVAILED BY POWERGRID	

Members may update.

Deliberation in the meeting

Members updated the latest status.

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

1. 315 MVA 765 KV/400 KV, 1500 MVA ICT-1 at Angul first time charged from 400 KV side at 13:18 HRS on 11/08/14.
2. 765 KV BUS-II at Angul first time charged at 19:41 HRS on 11/08/14.
3. 330 MVAR B/R-I at Angul first time charged at 20:01 HRS on 11/08/14.
4. 132 KV Kudra-Pusauli (132kV Dehri-Pusauli line made LILO at Kudra) first time charged at 22:28 HRS on 23/08/14.
5. 132 KV Dehri-Kudra (132kV Dehri-Pusauli line made LILO at Kudra) first time charged at 22:30 HRS on 23/08/14.
6. 400kV Biharshariff-Lakhisarai-II (400kV Biharshariff-Kahalgaon-II line made LILO at Lakhisarai) at 22:26 HRS on 31/08/14.
7. 50 MVAR L/R of 400kV Lakhisarai-Kahalgaon-I first time charged at 22:37 HRS on 31/08/14.

All constituents are requested to intimate details of commissioning of new elements/generating units (if any) positively by the first working day of the current month for the previous month.

All members are also requested to verify above and also intimate regarding details of any other new elements commissioned but not included in the above list.

Members may note/update.

Deliberation in the meeting

Members noted.

Status of commissioning of generating station and transmission elements are as follows:

New generating units:

S.No.	Power Plant	Plant Size	Expected date
1	Koderma Unit#2	2x500MW	
2	Corporate Power Unit#1	2x270MW	
3	Teesta-III Unit#1	1x200MW	
4	Raghunathpur Unit#1	2x600MW	
5	TLDP-IV	1x40MW	

New transmission elements:

SI No.	Name of Element	Expected date
1	400 kV Maithon-Gaya D/C	
2	400 kV Gaya-Koderma D/C	
3	400kV Sasaram-Daltonganj D/C & Daltonganj S/Stn	
4	400 kV Ranchi-Raghunathpur D/C	
5	400 kV Meramandali-Dubri D/C	
6	400 kV Corporate- Ranchi D/C	
7	400 kV IB-Meramandali D/C	
8	220 kV TLDP-IV – NJP ckt-2	2014
9	220 kV Jeerat-Rishra D/C	
10	220 kV Latehar-Daltonganj D/C	
11	220 kV Lohardaga-Lathehar D/C	
12	220 kV Bidhansai-Cuttack D/C	
13	220 kV Girdih-Koderma D/C	Sep, 2014

Members may update.

Deliberation in the meeting

Members updated the latest status.

PART D:: OTHER ISSUES

Item no. D.1: UFR operation during the month of Aug'14

System frequency touched a minimum of 49.36 Hz in Aug'14. 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: Grid incidences during the month of Aug, 2014.

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	132kV Purnea (BSPHCL) S/s	03/08/14 at 08:46hrs and 09:10hrs 04/08/14 at 09:17hrs and 10:35hrs 07/08/14 at 21:18hrs and 22:50hrs	0	100-150	Total power supply failure at 132kV Purnea (BSPHCL) S/s due to fault in 132kV Purnea (BSPHCL)-Saharsa line or 132kV Purnea (BSPHCL) - Forbisgunj line.	-
2	OPTCL (Theruvai, Narendrapur, Laxmipur, Jayanagar, Bhanjanagar, U.Kolab)	16/08/14 at 19:29hrs	700	500	Total power failed at 220kV Theruvai S/s due to bursting of Y-Ø post insulator of 220kV Theruvai-U.Kolab line	GD-1
3	220kV Biharsariff (BSPHCL)	20/08/14 at 12:26hrs	0	150	All the three 400/220kV, 315MVA ICTs at Biharsariff (PG) tripped on back up O/C protection along with 220kV TTPS-Biharshariff leading to Total power failure at 220kV Biharsariff (BSEB) S/s.	GD-1
4	JSEB(Chandil , Adityapur)	25/08/14 at 14:13hrs	0	264	Total power failure occurred at 220kV Chandil S/s due to Y-N fault occurred in 220kV Chandil-Ranchi (PG) line	GD-1
5	OPTCL (Theruvai)	26/08/14 at 23:08hrs	1270	420	Multiple tripping occurred at Theruvai, Indravati Upper Kplab and Jaynager due to inclement weather condition.	GD-1
6	FSTPP(NTPC), Bangladesh, Malda)	28/08/14 at 11:13hrs	1400	390	Earth fault was suspected to have occurred in B-Ø, Z-1 of 400kV FSTPP-Malda-II due to which all the running units of FSTPP tripped along with all incoming/outgoing feeders. Power supply to Bangladesh through HVDC Bheramara also got affected.	GD-1

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.3: Any other items

1) ER-NER TTC expected high loading of Farraka-Malda D/C during winter-- ERLDC

Like last year it is expected that loading of 400 kV Farraka-Malda will remain high during the coming winter season. To control the loading of Farraka-Malda and to enhance ER-NER TTC bus split arrangement was adopted at 220 kV Dalkhola(PG) substation in the previous year. Since Palatana power plant in NER has not yet stabilized, it is expected that demand in NER will remain high and high loading of Farraka-Malda is inevitable. Thus there may be a necessity of carrying out bus splitting at 220 kV Dalkhola s/S this year also.

Also, Powergrid is requested to furnish the status of construction of the following Transmission System augmentation which are expected to ease out the congestion faced as mentioned above:

- 400kV Rajarhat-Purnea D/C(with LILO of one circuit each at Farakka and Gokarno)
- Augmentation of 400kV Farakka-Malda D/C with HTLS conductor

ERLDC/Powergrid may update.

Deliberation in the meeting

Powergrid updated the status as given below:

- a) 400kV Rajarhat-Purnea D/C(with LILO of one circuit each at Farakka and Gokarno)- Expected to be commissioned by January, 2016.*
- b) Augmentation of 400kV Farakka-Malda D/C with HTLS conductor- Work order will be placed by December, 2014 and completion schedule will be 18 months from date of award.*

Further, it was informed that the Bongaigaon TPS is expected to be synchronized by March, 2015 which may ease out the congestion.

2) CERC approved procedure for availing start up power from the Grid by the generating Stations-- ERLDC

CERC along with the Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) (Fourth Amendment) Regulations, 2014 has approved the procedure for availing Start up power from the Grid by the Generating Stations under commissioning phase through Deviation Settlement Mechanism. The salient features of the amendment and procedure would be presented by ERLDC.

ERLDC may present.

Deliberation in the meeting

Members noted.

3) Charging of 765 kV Gaya-Baliya line along with 3x80 MVAR line reactor at Gaya S/s -- Powergrid

At present 765 kV Gaya- Baliya line is charged partly as 400 kV Gaya-Biharshariff and partly as 400 kV Sasaram- Baliya S/C transmission lines. The line is planned to be charged as 765 kV Gaya-Baliya line along with 765 kV, 3x80 MVAR line reactor at Gaya end in the month of October. Along with this, 400 kV Biharshariff-Sasaram-IV will also be charged in October, 2014.

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.4: Agenda from ULDC -- BSPTCL

1) Delay in Up-gradation Scheme of ULDC of BSPTCL:

As per decision of the ERPC, BSPTCL has entrusted Powergrid vide BSPHCL office letter no.2386 dated 05.12.12, to execute the up-gradation / replacement of data/ voice telemetry of all operating as well as under construction GSS under BSPTCL region. This includes the replacement of RTUs installed under ULDC-ER phase-I project.

44 RTUs were delivered without cable. Now cable for only 20 nos RTUs has been delivered. Installation of these RTUs has been taken up by the contractor from 29th August. But the

work is slow. Whatever installation being taken up is not being commissioned. Power grid has been requested to increase the installation and commissioning team.

Also, hardware for Control Room has been delivered without cable, BSPTCL is pursuing for installation of equipments with Power grid and Chemtrols but outcome is pathetic.

The matter has been reviewed with Powergrid on 05.04.2014, 30.06.2014 and 19.08.2014, BSPTCL has expressed concern over the delay and directed Powergrid to expedite the work on priority to complete by October, 2014.

Communication package consisting of supply installation and commissioning of Fiber Optic Communication, PLCC communication. Auxiliary Power Supply System are not awarded to suitable vendor by Power grid yet. BSPTCL has repeatedly requested Power grid to expedite the work to meet the requirement of RTUs commissioning date to enable RTUs to communicate to SLDC, Patna. But Power grid is unable to confirm the target date and giving the reason of the constraint of installation team of OPGW.

BSPTCL apprehended that after installation of RTUs data cannot be communicated to SLDC, Patna and subsequently to ERLDC, due to non-availability of communication channel. So, BSPTCL has taken forward step to make the RTUs communicated over GPRS. BSPTCL is procuring GPRS devices as an interim arrangement in this regard. However, PGCIL may be requested to furnish target date for supply, installation & commissioning of RTUs along with communication and commissioning of new SLDC Centre.

2) Supply of MUX at Samastipur, BTPS and Jakkanpur site:

It has been requested to Power grid to supply the communication equipment for fiber communication on priority as integration of 5 nos. of GSS under up-gradation scheme of ULDC shall depend on these equipments. It has come to know that 1st lot of equipments is being dispatched but BSPTCL does not find a place in it.

3) Underground laying of Fibre from jakkanpur to SLDC, Patna:

ERPC has declared to FO communication of BSPTCL in commercial operation except Jakkanpur- SLDC UGFO link. The work of critical UGFO link from Jakkanpur to SLDC, Patna is yet to be completed by Power grid. BSPTCL has repeatedly requested Power grid to expedite the work.

4) Final bills of the advance payment already released for AMC charges of Wideband Communication System, Auxiliary Power Supply System and supply of battery bank.

As agreed by PGCIL in the SCADA meeting held on 28.05.2014, the final bill has to be furnished by 15th June, 2014 but final bill of RTU has only been received till now. The final bill of AMC of Wide band communication, Auxiliary Power Supply System and the supply of battery bank is still awaited.

Further payment of APS is also held up for want of final bill of 1st to 5th half yearly advance payment released to Power grid.

Deliberation in the meeting

Powergrid agreed to communicate the latest status within a week.

Meeting ended with vote of thanks to the chair.

Participants in 101st OCC Meeting

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 26.09.14 (Friday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
1	A.K. Bandyopadhyay	MS IL	ERPC	9433068533	mkbpc-poc@erpc.nic.in	A.K. Bandyopadhyay
2	U.K. Kerna	GM	ERLDC	8902496220	ujwal.kerna@gmail.com	U.K. Kerna
3	D.K. Shrivastava	ACM	ERLDC	9433041802	dkshrivastava55@yahoo.co.in	D.K. Shrivastava
4	P.S. Das	Ch. Mgr	ERLDC	9433111837	psdas_psl@yahoo.co.in	P.S. Das
5	S. BANERJEE	CH MGR	ERLDC	9433041823	surajitb@gmail.com	S. Banerjee
6	S P Datta	DGM	POWERGRID	9437177650	spdatta@powergrid.co.in	S.P. Datta
7	Suresh Kumar	Ch. Mgr	POWERGRID	9717888724	bavrc@powergrid.co.in	Suresh Kumar
8	B. Pan	CE(SLDC)	DVC	9903247102	bpan.dvc@gmail.com	B. Pan
9	S NAYAK	AGM(O&S)	NTPC-ER	9437041581	snayak@ntpc.co.in	S. Nayak
10	RAKESH KUMAR	AGM(OS)	NTPC-ER	9431011344	raakeshkumar12@ntpc.co.in	Rakesh Kumar
11	Ajay Kumar	DM(E)	NHPC, Ranchi	9800867065	ajaynhpc78@gmail.com	Ajay Kumar
12	Jaganath Kuni	ENGR/CE	NHPC, Ranchi	9800031955	jaganathnhpc@gmail.com	Jaganath Kuni
13	S. Wangdi	AEC	DGPC, THP	9775-17702091	SanjayDag70@hotmail.com	S. Wangdi
14	SAMIR PANDAB	CM	MPL	09031000323	spandab@talapower.com	Samir Pandab
15	C. B. Samanta	S. EPL	Powergrid	9434052978	chiba.samanta@talapower.com	C.B. Samanta
16	SHASHWATA DUTTA	HEAD CONSULTANT	ENICL	9560300059	shashwata.dutta@enicl.com	Shashwata Dutta
17	ASHOKE KUMAR BASAK	Engineer	ERLDC	9007059569	ashoke.ju.ee@gmail.com	Ashoke Kumar Basak
18	Saurav K. Sahay	So Engineer	ERLDC	9432013173	Sahay.Saurav@gmail.com	Saurav K. Sahay
19	Preelam Barozi	DE	WDSDDL	9432146765	preelam72@gmail.com	Preelam Barozi
20	Ashish Guttami	DGM	APNRL	9007477762	ashishguttami@admiralgroup.co.in	Ashish Guttami

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Participants in 101st OCC Meeting

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Sl No	Name	Designation	Organization	Contact Number	Email	Signature
21	Indira Choudhary	Asst. Mgr	ERL	9937204326	indira.khanna@erl.co.in	[Signature]
22	Thakur Dora	JE (A)	KHP, DGPC	99517721918	thakur.dgpc@gmail.com	[Signature]
23	Tenzin Dangi	Dy. EE	DGPC, CHP	+9751763948	tenzindangi@gmail.com	[Signature]
24	Oma Nath Kuikel	JE	DGPC, CHP	+4757688335	Kuikelkhp@gmail.com	[Signature]
25	Rangin Chophra	Asst.	TNP, DGPC	+9751772096	ringinchophra@gmail.com	[Signature]
26	S. A. Amari	Sr. Engr.	PLCIL	9434713583	shukhbir.bhatnagar@gmail.com	[Signature]
27	R. P. Singh	DGM (OS)	NTPC	9431011366	rpsingh01@ntpc.co.in	[Signature]
28	J. C. Patra	Asst. Mgr	NTPC-Kharai	9437043272	jcpatra@ntpc.co.in	[Signature]
29	S. S. Sathyanarayanan	CM (OS)	POWERGRID	9434740036	svsc.powergridindia@gmail.com	[Signature]
30	Umesh Sen	Eng (TD)	Powergrid	8826896872	Umesh.Sen@powergrid.in	[Signature]
31	Jiten Das	GM (OS)	POWERGRID	9431815708	ccandm@erl@gmail.com	[Signature]
32	T. R. Mahapatra	PM (ERL)	ERLDC	9433041898		[Signature]
33	Vijay Kumar Garlapati	Sr. Engineer (Power Sales)	JITPL	9583040237	jitalodisha@gmail.com	[Signature]
34	N. Mandal	AGM (E)	Gate	8016082293	niladri.mandal@gatiinfra.com	[Signature]
35	Gautam Gangopadhyay	SO (HSE/OPS)	DPL/ONGC	9433712932	ind-1714@yahoo.co.in	[Signature]
36	H. P. Mahapatra	Manager (A)	CHPE	99861164943	hpm.chpe@gmail.com	[Signature]
37	R. CHAKRAVARTY	DGM	CESC	9831054684		[Signature]
38	SANDIP PAL	GM (SO)	CESC	9831054651	sandip.pal@sp-sg.in	[Signature]
39	PRASHANT KUMAR DAS	DA (A) (PT)	SIUC, OPFC, BBSR	9430074100	Prashantk.das@yahoo.co.in	[Signature]
40	Mamun Choudhury	Asst. GM (PS)	SLDC, OPFC, BBSR	9438707310	mamun.choudhury113@gmail.com	[Signature]

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Sl No	Name	Designation	Organization	Contact Number	Email	Signature
41	P.K. Banerjee	S. Manager (RIS)	WBPSCL, UTPS	8336963981	pkbanerjee@opole.co.in	
42	Sujit Nath	CE (CPD)	WBSETCL	9434910019	sujit.nath@wbsetcl.in	
43	Amitava Biswas	C.E., SLDC	WBSETCL	9434910030	amitava.biswas22@gmail.com	
44	G.P. Khatyar	Dy. CEE/RE/DNR	RE/DNR	07763816321	dycee2rednr@gmail.com	
45	P. Kumar	ESE/SLDC	BSPTEL	7763816743	p.kumar@bsecl.com	
46	P. Mohan	EEE/SLDC	BSPTEL	7763817765	blac.bsecl@gmail.com	
47	S.S. Mishra	ESE/SLDC	TUSNL	9771904825	slde.ranchi@gmail.com	
48	D.K. Banerji	EE	ERPC	9883617236	ee@erpc.gov.in	
49	B. SARKHEL	SE (S)	ERPC	9433065724		
50	JOYDEB BANJOPADHYAY	SE (G)	"	—	—	
51	J.S. Pal	CE/PTC	WBSEDCL	9530955600	ce@wbsetcl.co.in	
52	G. Rao	AEE	ERPC	9547891355	ee@erpc.gov.in	
53	S.K. Chandra	MGR	ERLDC	9433041800	sanjeev.chandra@erl.com	
54	B.N. Sarker	Adv. (I)	WBSEDCL	9748700466	bn.sarker@gmail.com	
55	S.P. Datta	AGM (NTPC)	ERPC	9433067000	sp.datta@erpc.gov.in	
56	D.K. Paul	SE (E)	WBSEDCL	817043813	ppsp@yaho.co.in	
57	C.K. Haldar	SE (E)	SLDC WBSETCL	94322-09503	ckhaldar@yahoo.co.in	
58	A.N. Prasad	AEE/RE/DNR	RE/DNR	7033552100	anprasad@re.dnr@gmail.com	
59	N. S. Saha	SM (PS)	WBSEDCL	8336903700	ns.saha@wbsetcl.co.in	
60	N. Khan	L.O.	GR/DCL	9433035435	khannur@grdcl.com	

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Time: 11:00 hrs

Date: 26.09.14 (Friday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
61	Maathu Sudan Sahoo	AGM (elect)	GRIDCO	9692427876	grico-ebc@gmail.com	M.S. Sahoo
62	T. K. DE	A. CE/ALOC	WBSEDCL	9433870748	kumaribank@gmail.com	T.K. De
63	Santanu Rudrap	Engn (NDC)	POWERGRID	9134735848	santanu.rudrap@yahoo.com	S.R.
64	P.K. DE	EE	ERPC	9433125844	prderfc@gmail.com	P.K. De
65	V. Kalyan	EE				V. Kalyan
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Latest status on non-availability of SCADA data

The status as updated in the 101st OCC meeting is as given below:

i) List of RTU supplied under ULDC Project but data is faulty/ intermittent:

SL no	Name of Utility	kV	Name of station	Reason for not reporting	Status as updated in 27 th TCC	Latest status
1	DVC	220	CTPS-B (2 x 250 MW)	Except GT MW & line flow, no data available	No Improvement	Powergrid informed that RTU Commissioned by M/s. Chemtrols. Unit side data will be available during Unit Shutdown which will be arranged by DVC for CT-PT interfacing

ii) 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	Status as updated in 27 th TCC	Latest status
1	NTPC	400	Farakka: (3x200+ 2x500MW)	MW, MVAR of primary (LV) side of all GT is not available.	NTPC agreed to make available these data by March, 2014. No improvement.	CTU informed that on 24-25.09.2014 termination done at RTU end. Data of Unit-1,4,5 made through, data of Unit-2,3 will be made through during unit shutdown by NTPC..
2	OPTCL	220	Vedanta (9x135 MW)	No status points are available.	CB Status point Rectified. Isolators status and KV /HZ meausrands yet to be rectified.	No isolators status are available. MW/ MVAR not available for sterlite 1/2 line ,station tranformer / Smelter . CBs of Bus coupler not available. Bus-1 KV/ HZ not available. Responsibility: OPTCL

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

S/n	Name of RTU locations	Status as updated in 27 th TCC	Latest status
1	Jakkanpur, Khagaul RTU, Dumraon, Karmnasha, Sitamarhi, , Purnea & Koshi	No data available.	Now, All RTUs are communicating. Intermittency of GPRS related issue has been taken up with Airtel.
2	Hathidah, Lakhisarai & Darbhanga		Hathidah & Lakhisarai is now reporting. Due to re-conductoring work in Darbhanga- Samastipur T/L, Darbhanga is not reporting temporarily.
3	Samastipur		Now reporting.
4	BTPS		RTU dismantled. Renovation/overhauling work is going on. SAS is expected to be operational by the end of October, 2014.

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5	Begusarai, Rajgir and Hajipur 220 kV	Begusarai & Rajgir is reporting
6	Jagdishpur, Sipara, Madhepura	
7	Siwan, Valmikinagar, Gopalganj, Darbhanga, Kisanganj and Arrah	

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

Sl. No.	Name of the RTU location	Status updated as in 27 th TCC	Latest Status
1	Chandil	No data available.	Reporting
2	Lalmatia		Reporting
3	Hatia		Reporting
4	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.
5	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>
6	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.
7	Garawah		Garawah RTU will be restored when it will be connected from Ranchi end through Hatia-Loherdaga-Latehar-Daltonganj – Garwah Transmission lie.
8	Sikidri		AMC by PUNCOM has been started. PUNCOM engineers are attending the sites for rectification of fault in PLCC causing non reporting of RTUs.
9	Patratu		
10	Tenughat		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.
11	Rajkharsawan		
12	Kendposi		Co-axial cable faulty at Golmuri (Chandil bay)
13	Goilkera		
14	Jadugoda		

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

S/n	Name of RTU Locations	Status as updated in 27 th TCC	Latest Status
1	Nalco	No data available.	OPTCL informed that work will be completed by Oct' 14.

vi) **Non Availability of SCADA data from critical sub-stations****New IPP (Complete data failure)**

SL no	Name of station/ Utility	Reason for non reporting	Status as updated in 27 th TCC	Latest status
I	Chuzachen HPS	Highly intermittent since LILO of Chuzachen – Gangtok line at Rangpo.	PLCC link intermittent between Chuzachen – Rangpo – Gangtok. Action : GATI / POWERGRID	Data Reporting.
II	Maithon Right Bank Power Ltd	Data stopped reporting since 04 th May 2014.	Equipment problem. Action : MPL	Restored
III	SEL	Data stopped reporting since 04 th May 2014.	Equipment problem. Action : STERLITE	Restored
IV	JITPL (Angul)	Data stopped reporting since 05 th May 2014.	Data Restored on 26/05/14.	Restored

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

SL No	Name of station/ Utility	Reason for non reporting	Status as updated in 27 th TCC	Latest status
I	Sagardighi TPS	No data is available since 25 th Feb 2014.	Data Restored on 26/05/14.	Restored
II	NHPC Teesta	Highly intermittent since LILO of Teesta – Binaguri line at Rangpo.	PLCC link intermittent between Teesta – Rangpo – Binaguri. Action : POWERGRID / NHPC	Restored
III	NHPC Rangit	No measurands are available for Gangtok 132 KV feeder in Rangit NHPC RTU	Feeders not wired with existing RTU. Action : POWERGRID /NHPC	Powergrid informed that Digital data has been integrated on 22.09.14. Now analog & digital data of Rangit-Gangtok feeder are reporting at ERLDC.
IV	Sasaram 765 KV	Data reporting highly intermittent.	Communication Links between Biharshariff – Sasaram are intermittent. Action : POWERGRID	Restored
V	Ranchi 765 KV	Data reporting highly intermittent.	PLCC Communication Links between – Ranchi (Namkum) – Ranchi (Beru) are intermittent also SAS not configured properly. Action: POWERGRID	Restored
VI	Lalmatia JSEB	MW / MVAR/ OLTC tap of 220/132 KV ICT –II not available	Feeders not wired with Lalmatia RTU of NTPC. Bay own by JSEB (JUSNL). Action : JSEB (JUSNL).	MW/MVAR/OLTC tap of 220/132 KV ICT-II not available.
VII	Mendhasal	400 KV Baripda 1 & 2 line flow and Reactors data, Tap position of both 400 ICTs not available since charging of bays.	Feeders not wired with Mendhasal RTU of OPTCL. Action : OPTCL	OPTCL informed that work is completed. <i>Feeder integration activity completed by ALSTOM & data is reporting at SLDC, Bhubaneshwar.</i>

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VIII	JSL (Meramundali - 400)	Most of the data not available .	JSL is not entertaining, OPTCL for rectification of data which is not reporting , as informed by OPTCL during SCADA O & M meeting.	OPTCL informed that JSL is reporting to SLDC, Odisha; data will be extended to ERLDC
IX	Jhasurguda 400	Data reporting is highly intermittent.	Intermittent PLCC communication link between Jhasurguda – Rourkela . Also GPRS data reporting very poor	<i>Jhasurguda SAS is now reporting through Optical fiber link (from 24.09.2014) & data reporting at ERLDC is now stable.</i>
X	Angul 400	Data reporting is highly intermittent.	PLCC communication Link problem between Angul – Bolangir . Also GPRS data reporting very poor.	Restored
XI	Bolangir 400	Data reporting is highly intermittent	Communication Link problem between ERLDC – Baolangir. Action : POWERGRID.	Restored
XII	DVC			
	Ramgarh	Data for 220 KV bay not available	Old RTU not working. New RTU not commissioned Action : DVC	RTU Commissioned. Data reporting.
	Putki			RTU installation Completed. RTU Cabling in progress.
	Patherdiah,			RTU reached site.
	Kalipahari			RTU reached site.

viii) Sub - Stations (765 & 400 kV) Telemetry not provided :

SL No	Name of station/ Utility	Reason for non reporting	Status as updated in 27 th TCC	Latest status
I	Bidhan Nagar 400 (WB)	RTU not commissioned	Action : WBSETCL	Data integrated
II	Khargpur 400 (WB)	RTU not provided for data telemetry	Action : WBSETCL	Data integrated

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

SL No	Name of station/ Utility	Reason for non reporting	Status as updated in 27 th TCC	Latest status
I	OPTCL, BPSL	data not available	Data started reporting since 26 th May 2014	Reporting.
II	WBSETCL			
	Subhasgram	RTU not provided for data telemetry	Action: WBSETCL	Data integrated
	New Bishnupur			Data integrated
	Bantala			Commissioning work completed. Data integrated
	New Town			Data integrated
	Krishna Nagar			RTU commissioned. RTU integration is scheduled on 26.09.2014.
	Kalingpong			RTU commissioned. Communication link to be

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				provided by WBSETCL.
	Karseong			RTU commissioned. Communication link to be provided by WBSETCL.
	CESC S/s: EM 220 kV			By January, 2015
	CESC : Kasba-132 kV, EM-132 kV Jadavpur, Chakmir, Majerhat and CESC Belur			By January, 2015
III	DVC			
	Burnpur	RTU not provided for data telemetry	Action : DVC	Data integrated
	Dhanbad			Data integrated
	Chandil (Manique)			Data integrated
IV	JSEB			
	Hatia New	RTU not provided for data telemetry	Action : JSEB	<i>RTU yet to be supplied by M/s. Chemtrols.</i>
	Manique (Chandil)			
	Japla			<i>RTU supplied by M/s. Chemtrols. RTU reached site for installation.</i>

ERPC: KOLKATA

Proposed Maintenance Programme of thermal units as per LGBR 2014-15

SYSTEM	POWER STATION	Unit NO.	Effective Capacity (MW)	Maintenance Programme	Remarks	No.of Days
DVC	DTPS	Unit No. 4	210	21.10.2014 to 30.11.2014	Capital OH	40
WBPDC	STPS	Unit No 5		Rev 03.10.14 to 22.10.14	Turbine vibration rectification	
	SgTPS	Unit No 2		24.10.2014 to 14.11.2014	Boiler Overhaul	
	BTPS	Unit No 4	60	27.10.2014 to 27.11.2014	Boiler License	
CESC	Titagarh TPS	Unit No 3	60	23.10.2014 to 25.10.2014	Statutory Hydraulic test	3
		Unit No 4	60	26.10.2014 to 14.11.2014	Insp Boiler+Turbine job	20
	Southern TPS	Unit No 2	67.5	06.10.2014 to 20.10.2014	Insp Boiler+Turbine job	15
TTPS (NTPC)	TTPS	Unit No 1	60	24.10.2014 to 07.11.2014	Boiler Overhaul	15
		Unit No 4	60	08.10.2014 to 22.10.2014	Boiler Overhaul	15
	FSTPS	Unit No 5	500	24.09.2014 to 05.10.2014	Boiler+HP & IP Module replacement+DDCMIS	35
NTPC	TSTPP Stg-I	Unit No 1	500	09.10.2014 to 20.10.2014	O/H	11

Note: There is no change in the maintenance programme of Hydro Generating units as proposed and submitted by the constituents of Eastern Region.

**EASTERN REGIONAL LOAD DESPATCH CENTRE
KOLKATA**

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 101ST OCC MEETING OF ERPC

	S/D APPROVED IN OCC								
Sr. No	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S/D availed BY	Reason	SUBJECT TO CONSENT FROM
1	400 KV Sundergarh - Raigarh # 2	27-09-2014	09:00	27-09-2014	17:00	ODB	ER-II	Jumper tightening works,VD adjustment,Corona ring tightening and spacer tightening works at location no.- 340,349,356,363,385,403,404,498, 512,524	NLDC
2	400kV BUS-II, 400kV Angul-Bolangir Line, 400kV Angul-Talcher line	27-09-2014	08:00	27-09-2014	18:00	ODB	ER-II	Erection of missing section of Bus-II	NLDC
3	400KV MTN-RTPS(DVC)	27-09-2014	09:00	01-10-2014	17:00	ODB	ER-II	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
4	MTN-MEJIA 3	28-09-2014	09:00	28-09-2014	13:00	ODB	ER-II	Testing of LA due to higher THRC value	
5	400KV Malda-Farakka-II	29-09-2014	08:00	29-09-2014	18:00	ODB	ER-II	Relay retrofitting at Farakka & Malda End .	NLDC
6	400 KV BINAGURI - RANGPO	29-09-2014	08:00	31-10-2014	18:00	ODB	ER - II	OPGW STRINGING WORK	
7	400 KV BARIPADA - JAMSHEDPUR	29-09-2014	08:00	31-10-2014	18:00	ODB	ER - II	OPGW STRINGING WORK	
8	400 KV BOLANGIR - ANUGUL	29-09-2014	08:00	31-10-2014	18:00	ODB	ER - II	OPGW STRINGING WORK	NLDC
9	400KV Malda-Farakka-II	30-09-2014	08:00	30-09-2014	18:00	ODB	ER-II	Relay retrofitting at Farakka & Malda End .	NLDC
10	315 MVA ICT-V Malda	28-09-2014	08:00	28-09-2014	18:00	ODB	ER-II	OTI/WTI adaptation.	
11	765/400KV 3*500MVA ICT-II at Sundergarh	29-09-2014	8:00 AM	30-09-2014	5:00 PM	OCB	ER-II	LA alignment	NLDC
12	132 KV D/C PUNRNEA - SAHARSA LINE	29-09-2014	08:00	30-09-2014	18:00	ODB	POWERGRID/NPRN	FOR CROSSING OF HVDC LINE	BIHAR
13	132 KV KONAR - HAZARIBAGH ROAD D/C OF DVC	29-09-2014	08:00	30-09-2014	18:00	ODB	POWERGRID /BOKARO	FOR STRINGING WORK OF 400KV D/C BOKARO-KODERMA BETWEEN LOC NO 51/0 TO 52/0	DVC
14	125 MVAR B/R - II AT PATNA	29-09-2014	10:00	30-09-2014	19:00	ODB	POWERGRID /PATNA	FOR BAY EXTESION WORK OF 400 KV PATNA - KISHANGANJ LINE	
15	400 KV Malda-Farakka-I	28-09-2014	08:00	28-09-2014	18:00	ODB	ER-II	Relay retrofitting at Malda End.	NLDC
16	765 KV GAYA - FATEHPUR LINE	01-10-2014	06:00	15-10-2014	19:00	ODB	POWERGRID/ ER - 1	FOR OPGW INSTALLATION WORK.	NLDC
17	400 KV BSF - MUZ - II	01-10-2014	06:00	31-10-2014	19:00	ODB	POWERGRID/ ER - 1	FOR OPGW INSTALLATION WORK.	NLDC/ Either one of Srl no 12, 13, 14 & 15 will be allowed
18	A/R 400 KV KHLG - BANKA - II	01-10-2014	06:00	31-10-2014	19:00	ODB	POWERGRID/ ER - 1	FOR OPGW INSTALLATION WORK.	NLDC/ Either one of Srl no 12, 13, 14 & 15 will be allowed
19	400 KV KHLG -BARH - II	01-10-2014	06:00	31-10-2014	19:00	ODB	POWERGRID/ ER - 1	FOR OPGW INSTALLATION WORK.	NLDC/ Either one of Srl no 12, 13, 14 & 15 will be allowed
20	A/R 400 KV BSF - BANKA - II	01-10-2014	06:00	31-10-2014	19:00	ODB	POWERGRID/ ER - 1	FOR OPGW INSTALLATION WORK.	NLDC/ Either one of Srl no 12, 13, 14 & 15 will be allowed
21	132 KV KONAR - HAZARIBAGH ROAD D/C OF DVC	01-10-2014	08:00	02-10-2014	18:00	ODB	POWERGRID /BOKARO	FOR STRINGING WORK OF 400KV D/C BOKARO-KODERMA BETWEEN LOC NO 62/0 TO 63/0	DVC
22	132 KV BTPS - KONAR D/C LINE OF DVC	03-10-2014	08:00	04-10-2014	18:00	ODB	POWERGRID /BOKARO	FOR STRINGING WORK OF 400KV D/C BOKARO-KODERMA BETWEEN LOC NO 67/0 TO 68/0	DVC
23	400KV Sterlite Energy Ltd. - Raigarh Ckt.-II (Rourkela-Raigarh ckt.-IV LILO) Line	04-10-2014	08:00	04-10-2014	17:00	ODB	ER-II	Stringing of 765KV S/C Angul-Jharsuguda new TL	NLDC
24	220 KV D/C Bhudipadar - Tarkara Line	05-10-2014	08:00	05-10-2014	17:00	ODB	ER-II	Stringing of 765KV S/C Angul-Jharsuguda new TL	OPTCL
25	400KV Rourkela- Sterlite Energy Ltd. Ckt.-II (Rourkela-Raigarh ckt.-IV LILO) Line	05-10-2014	08:00	05-10-2014	17:00	ODB	ER-II	Stringing of 765KV S/C Angul-Jharsuguda new TL	NLDC
26	400KV Berhampore-Farakka Line	06-10-2014	9:00 hrs	06-10-2014	13.00Hrs	ODB	ER-II	Jumper/Dropper tightening of all connectors of major equipments associated	NLDC/ WBSETCL
27	400kV Raigarh - Sundergarh-II	06-10-2014	8:00 AM	07-10-2014	5:00 PM	OCB	ER-II	Rectification of 400kV Isolators mechanical interlock.	NLDC
28	315MVA ICT-II at Keonjhar	06-10-2014	09:00	20-10-2014	17:00	OCB	ER-II	Internal inspection of ICT-II for DGA violation	
29	220 KV BTPS - JAMSHEDPUR LINE OF DVC	06-10-2014	08:00	07-10-2014	18:00	ODB	POWERGRID /BOKARO	FOR STRINGING WORK OF 400KV D/C BOKARO-KODERMA BETWEEN LOC NO 88/0 TO 89/0	DVC
30	TIE BAY OF 765 KV SSRM - FATEHPUR LINE AND 765 KV ICT AT SSRM	06-10-2014	10:00	06-10-2014	11:00	ODB	POWERGRID /PSL	DURING S/D PERIOD THERE WILL NOT BE ANY POWER FLOW FROM 400 KV SIDE TO 765 KV SIDE	NLDC
31	400kV Rourkela -Sundergarh-II	06-10-2014	8:00 AM	06-10-2014	5:00 PM	OCB	ER-II	Rectification of 400kV Isolators mechanical interlock.	NLDC
32	400 KV Maithon Durgapur #1	06-10-2014	09:00	06-10-2014	17:00	ODB	ER-II	Line and Bay AMP	

33	400kV Angul-Talcher & 400kV Angul -Meramundali (LILO Line of earlier 400kV Tal-Mer Ckt-II at Angul)	06-10-2014	08:00	07-10-2014	18:00	ODB	ER-II	For rectification of jumper defect & belt of tower observed after the commissioning of the line	NLDC
34	OPTCL's 132 KV D/C Bhudipadar - Tarkara Line	07-10-2014	08:00	07-10-2014	17:00	ODB	ER-II	Stringing of 765KV S/C Angul-Jharsuguda new TL	
35	132 KV S/C Sambalpur-Kuchinda Line	07-10-2014	08:00	07-10-2014	17:00	ODB	ER-II	Stringing of 765KV S/C Angul-Jharsuguda new TL	OPTCL
36	400kV S/C Rengali-Indravati T/L	07-10-2014	08:00	08-10-2014	18:00	ODB	ER-II	For Power Line crossing at Loc. No. 95/0 & 96/0 to construct 765KV Angul-Jharsuguda TL	NLDC
37	765 KV 3*80 MVAR B/R - I AT NRNC S/S	07-10-2014	08:00	08-10-2014	18:00	ODB	POWERGRID /NRNC	FOR TESTING & COMMISSIONING WORK OF AUXILLIARY BUS AND SWITCHING SCHEME OF SPARE TRANSFORMER / REACTOR	NLDC
38	132 KV GOPALGANJ - MASRAKH OF BSPTCL	07-10-2014	08:00	08-10-2014	18:00	ODB	POWERGRID/ ER - 1	POWERLINE CROSSING OF 800 KV HVDC LINE	BIHAR
39	132 KV S/C Sambalpur-Kuchinda Line	07-10-2014	08:00	07-10-2014	17:00	ODB	ER-II	Stringing of 765KV S/C Angul-Jharsuguda new TL	OPTCL's 132 KV S/C Sambalpur-
40	315MVA ICT-II MAITHON	07-10-2014	09:00	07-10-2014	17:00	ODB	ER-II	Testing of LA & 220KV CT Connector replacement work	
41	400 KV BSF - GAYA LINE	07-10-2014	08:00	10-10-2014	18:00	OCB	POWERGRID/ ER-1	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 400 KV BSF - SSRM -4.	NLDC
			08:00	16-10-2014	18:00	OCB	POWERGRID/ ER-1	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 765 KV GAYA - BALIA	NLDC
42	400 KV SSRM - BALIA	07-10-2014	08:00	10-10-2014	18:00	OCB	POWERGRID/ ER-1	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS A 400 KV BSF - SSRM - IV	NLDC
			08:00	16-10-2014	18:00	OCB	POWERGRID/ ER-1	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 765 KV GAYA - BALIA	NLDC
43	220 kv Budhipadar - Korba - II	08-10-2014	08:00	15-10-2014	16:00	OCB	OPTCL	Breaker replacement	NLDC
44	400kv Angul Bolangir	08-10-2014	08:00	08-10-2014	18:00	OCB	ER-II	765KV Angul-Jharsuguda Line-I part-I Construction	NLDC
45	400 kv Jeypore Bolangir line	08-10-2014	09:00	08-10-2014	16:00	ODB	ER-II	Stringing of 132KV Dargaon-Tentulkhunti TL of M/s OPTCL	NLDC
46	220 KV BUS - I AT RANCHI	08-10-2014	09:30	08-10-2014	17:30	ODB	POWERGRID/ RNC	FOR 220 KV BUS - I SIDE ISOLATOR ALIGNMENT WORKS AT RNC (RELATED TO HATIA - II & ICT - I)	
47	220 KV RAMGARH - BTPS LINE OF DVC	08-10-2014	08:00	09-10-2014	18:00	ODB	POWERGRID /BOKARO	FOR STRINGING WORK OF 400KV D/C BOKARO-KODERMA BETWEEN LOC NO 88/0 TO 89/0	DVC
48	400 KV BSF - SSRM - 3	08-10-2014	08:00	10-10-2014	18:00	ODB	POWERGRID/ ER-1	S/D OF SAID CKT. IS REQUIRED IN VIEW OF CHARGING OF 400 KV BSF - SSRM -IV	NLDC
49	400kv D/C purnea-New Siliguri Ckt.-I & II	08-10-2014	08:00 hrs	09-10-2014	17:00 hrs	ODB	ER-II	For stringing of 800KV HVDC Line(Over head crossing)	NLDC
50	400 k v Farakka-Sagardighi line	08-10-2014	8:00 hrs	09-10-2014	17:00 hrs	ODB	ER-II	For AMP work	WBSETCL
51	315 MVA ICT-III Malda	08-10-2014	08:00	08-10-2014	18:00	ODB	ER-II	OTI/WTI adaptation.	
52	400KV MTN-KHG-I Line with LR	09-10-2014	09:00	09-10-2014	17:00	ODB	ER-II	Reactor isolator operation checking for NTAMC ; leakage arrest from reactor:SFRA test	
53	125 MVAR B/R - I AT PATNA	09-10-2014	10:00	10-10-2014	19:00	ODB	POWERGRID /PATNA	FOR BAY EXTESION WORK OF 400 KV PATNA - KISHANGANJ LINE	
54	132 KV D/C Bhudipadar - Sundargarh Line	09-10-2014	08:00	09-10-2014	17:00	ODB	ER-II	Stringing of 765KV S/C Angul-Jharsuguda new TL	OPTCL
55	Line Reactor of Jeypore - Bongir	09-10-2014	09:00	09-10-2014	5:00 PM	ODB	ER-II	Erection work of NGR bypass system of L/R of Jaypore Line.	
56	400kV S/C Angul-Bolangir T/L	09-10-2014	08:00	10-10-2014	18:00	ODB	ER-II	For Power Line crossing at Loc. No. 33/0 & 34/0 to Construct 765KV Angul-Jharsuguda TL	NLDC
57	765 KV 3*80 MVAR B/R - II AT NRNC S/S	09-10-2014	08:00	11-10-2014	18:00	ODB	POWERGRID /NRNC	FOR TESTING & COMMISSIONING WORK OF AUXILLIARY BUS AND SWITCHING SCHEME OF SPARE TRANSFORMER / REACTOR	NLDC
58	400kv Kh-Maithon ckt-2	09-10-2014	09:30	09-10-2014	17:30	ODB	NTPC	PM & Relay Testing.	
59	400 KV KOLAGHAT - KHARAGPUR - II	09-10-2014	07:00	09-10-2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
60	220KV MTN-DHN-I	09-10-2014	09:00	09-10-2014	17:00	ODB	ER-II	Y & B PH CVT replacement	
61	400KV Malda-Purnea-I	09-10-2014	09:00	09-10-2014	18:00	ODB	ER-II	Replacement of broken insulator strings damaged by miscreants.	
62	LINE Reactor of Anugul - Bolangir	10-10-2014	9:00 AM	10-10-2014	5:00 PM	ODB	ER-II	Erection work of NGR bypass system of L/R of Anugulline.	
63	ICT-II (3 x 105 MVA) at Indravati	10-10-2014	9:00 AM	10-10-2014	5:00 PM	ODB	ER-II	for sampling of oil from 400 KV Y&B phase bushings & other AMP works	
64	400kV BUS-I, 400kV reactor-I at Anugul , Angul-JITPL Line-1, Angul-JITPL-line 2	10-10-2014	08:00	11-10-2014	18:00	OCB	ER-II	Stringing of 400kV side Conductors for Incoming 765/400kV ICT-II	NLDC
65	400kV Raigarh - Sundergarh - I	10-10-2014	8:00 AM	11-10-2014	5:00 PM	OCB	ER-II	Rectification of 400kV Isolators mechanical interlock.	NLDC
66	132 KV BTPS - KONAR S/C LINE OF DVC	10-10-2014	08:00	11-10-2014	18:00	ODB	POWERGRID /BOKARO	FOR STRINGING WORK OF 400KV D/C BOKARO-KODERMA BETWEEN LOC NO 94/0 TO 95/0	DVC
67	400kv CB1152, Tie bay Circuit Breaker of Fkk-Malda line-1	10-10-2014	09:30	06-11-2014	17:30	OCB	NTPC	Breaker replacement, Line outage not required.	
68	400 KV BUS TIE BAY AT KOLAGHAT	10-10-2014	06:00	10-10-2014	17:00	ODB	WBSETCL	MAINTENANCE WORK	
69	315 MVA ICT - II ARAMBAG	10-10-2014	07:00	10-10-2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
70	400kv sagardighi-Subash gram line	10-10-2014	8:00 hrs	11-10-2014	17:00 hrs	ODB	ER-II	For AMP work	WBSETCL/ NLDC
71	221KV MTN-DHN-II	10-10-2014	09:00	10-10-2014	17:00	ODB	ER-II	Bay AMP work	

72	125MVAR B/R - 2 AT NEW PURNEA	11-10-2014	09:00	11-10-2014	13:00	ODB	POWERGRID/NPRN	FOR AMP WORKS.	
73	315 MVA ICT - I AT JSR	11-10-2014	09:30	11-10-2014	17:30	ODB	POWERGRID /JSR	AMP AND VARIABLE FREQUENCY TAN DELTA OF BUSHINGS.	JHARKHAND
74	220 KV GAYA (PG) - BODHGAYA- I	11-10-2014	10:00	11-10-2014	16:00	ODB	POWERGRID /GAYA	FOR AMP WORKS.	BIHAR
75	400 KV GAYA - MAITHON - II	11-10-2014	10:00	11-10-2014	16:00	ODB	POWERGRID/ ER - 1	S/D REQUIRED FOR CHARGING OF 400 KV GAYA - MAITHON - I	NLDC
76	400 KV GAYA - KODERMA - II	11-10-2014	10:00	12-10-2014	18:00	OCB	POWERGRID/ ER - 1	S/D REQUIRED FOR CHARGING OF 400 KV GAYA - MAITHON - I	NLDC
77	400 KV MTN - KODERMA - 1	11-10-2014	10:00	11-10-2014	18:00	OCB	POWERGRID/ ER-1	PERMANENT S/D OF SAID CKT. IS REQUIRED .ON RESTORATION THE LINE WILL BE CHARGED AS A 400 KV GAYA - MTN - I	NLDC
				13-10-2014	18:00	OCB	POWERGRID/ ER-1	PERMANENT S/D OF SAID CKT. IS REQUIRED .ON RESTORATION THE LINE WILL BE CHARGED AS A 400 KV GAYA - KODERMA - I	DVC
78	400 KV KOLAGHAT - KHARAGPUR - II	12-10-2014	07:00	12-10-2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
79	132 KV S/C Sambalpur-Rairakhole Line	13-10-2014	08:00	12-10-2014	17:00	ODB	ER-II	Stringing of 765KV S/C Angul-Jharsuguda new TL	OPTCL
80	400KV Rourkela Line-I	13-10-2014	8:00 AM	14-10-2014	5:00 PM	OCB	ER-II	Rectification of 400kV Isolators mechanical interlock.	
81	3 X 16.67 MVAR Keonjhar Line Reactor	13-10-2014	09:00 hrs	17-10-2014	17:00 hrs	OCB	ER-II	Off line Filtration of B-ph Reactor	
82	400 kv Jeyapore Indravati line	13-10-2014	09:00	22-10-2014	17:00	ODB	ER-II	PID scanning of Tower Insulators	NLDC
83	765 KV 3*80MVAR L/R OF 765KV NRNC-DHARAMJAIGARH AT NRNC	13-10-2014	08:00	14-10-2014	18:00	ODB	POWERGRID /NRNC	FOR TESTING & COMMISSIONING WORK OF AUXILLIARY BUS AND SWITCHING SCHEME OF SPARE TRANSFORMER / REACTOR	NLDC
84	315 MVA ICT - 2 AT JSR	13-10-2014	09:30	13-10-2014	17:30	ODB	POWERGRID /JSR	AMP AND VARIABLE FREQUENCY TAN DELTA OF BUSHINGS.	JHARKHAND
85	220 KV GAYA (PG) - BODHGAYA- II	13-10-2014	10:00	13-10-2014	16:00	ODB	POWERGRID /GAYA	FOR AMP WORKS.	BIHAR
86	220 KV BSF - TENUGHAT S/C	13-10-2014	08:00	14-10-2014	18:00	ODB	POWERGRID /BOKARO	FOR STRINGING WORK OF 400KV D/C BOKARO-KODERMA BETWEEN LOC NO 76/0 TO 77/0/0	JHARKHAND
87	80MVAR Bus Reactor of Barh STPP	13-10-2014	09:30	16-10-2014	17:30	OCB	NTPC	Annual Testing & PM Job of Bus Reactor, CTs, LAs, Isolators, CB of main & Tie bay.	
88	315MVA ICT-I MAITHON	13-10-2014	09:00	13-10-2014	17:00	ODB	ER-II	220KV Y& B-Ph Bushing inspection. AMP of ICT#1	
89	220KV Siliguri-Dalkhola line	13-10-2014	10:00 Hrs	13-10-2014	15:00 Hrs	ODB	ER-II	Replacement defective Insulator String	
90	400KV Mendhasal-BARIPADA-1	14-10-2014	08:00 hrs	15-10-2014	18:00 hrs	ODB	ER-II	All Tension tower jumpering nut & Bolts Tightning and Replacement of punctured insulator	
91	50 MVAR B /R - 1 AT JSR	14-10-2014	09:30	14-10-2014	17:30	ODB	POWERGRID /JSR	AMP AND VARIABLE FREQUENCY TAN DELTA OF BUSHINGS.	
92	220 KV GAYA (PG) - DEHRI - I	14-10-2014	10:00	14-10-2014	16:00	ODB	POWERGRID /GAYA	FOR AMP WORKS.	BIHAR
93	80 MVAR B/R AT KHARGPUR	14-10-2014	07:00	14-10-2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
94	315 MVA ICT - III ARAMBAG	14-10-2014	07:00	14-10-2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
95	315MVA ICT#2 at Durgapur	14-10-2014	10:00 HRS	14-10-2014	18:00 hrs	ODB	ER-II	For AMP work	
96	400KV Malda-Purnea-II	14-10-2014	07:00	14-10-2014	18:00	ODB	ER-II	Replacement of broken insulator strings damaged by miscreants.	
97	Bus Reactor-I Anugul	15-10-2014	08:00	15-10-2014	18:00	ODB	ER-II	Erection of Radiator	
98	315MVA ICT-I ROURKELA	15-10-2014	09:00	15-10-2014	17:00	ODB	ER-II	To attend oil leakage in OLTC and rectification of driving mechanism problem by M/S BHEL	OPTCL
99	400kV, 125MVAR Bus Reactor-I Sundergarh	15-10-2014	8:00 AM	16-10-2014	5:00 PM	OCB	ER-II	Rectification of 400kV Isolators mechanical interlock.	
100	400 KV RNC - RKL - I	15-10-2014	10:00	15-10-2014	14:00	ODB	POWERGRID/ RNC	FOR AMP WORKS OF LINE EQUIPMENTS.	
101	50 MVAR B /R - 2 AT JSR	15-10-2014	09:30	15-10-2014	17:30	ODB	POWERGRID /JSR	AMP AND VARIABLE FREQUENCY TAN DELTA OF BUSHINGS.	
102	220 KV GAYA (PG) - DEHRI - II	15-10-2014	10:00	15-10-2014	16:00	ODB	POWERGRID /GAYA	FOR AMP WORKS.	BIHAR
103	400 KV BUS COUPLER BAY AT KOLAGHAT	15-10-2014	06:00	15-10-2014	17:00	ODB	WBSETCL	MAINTENANCE WORK	
104	220kV Tarkera- Budhipadar Ckt.I	15-10-2014	08:00	17-10-2014	16:00	ODB	OPTCL	MAINTENANCE WORK	
105	400KV MTN-MPL-II	15-10-2014	09:00	15-10-2014	17:00	ODB	ER-II	Strung bus repair,oil sampling of Y-Ph line CT (Alstom make).	MPL
106	400 KV JSR - RKL - I	16-10-2014	08:00	16-10-2014	18:00	ODB	POWERGRID	To make LILO through up to 400 KV BUS at Chaibasa s/s(New)	
107	132 KV D/C PURNEA - FORBISGANJ LINE	16-10-2014	08:00	17-10-2014	18:00	ODB	POWERGRID/NPRN	FOR CROSSING OF HVDC LINE	BIHAR
108	765 KV 3*500MVA ICT-I AT NRNC	16-10-2014	08:00	18-10-2014	18:00	ODB	POWERGRID /NRNC	FOR TESTING & COMMISSIONING WORK OF AUXILLIARY BUS AND SWITCHING SCHEME OF SPARE TRANSFORMER / REACTOR	NLDC

109	400 KV JSR - DURGAPUR LINE	16-10-2014	09:30	16-10-2014	13:30	ODB	POWERGRID /JSR	VARIABLE FREQUENCY TAN DELTA OF CT	
110	400kv Bus Reactor-1 of FKK along with 400kv Fkk-Sagardighi line.	16-10-2014	09:30	16-10-2014	17:30	ODB	NTPC	PM & Relay Testing. (Sagardighi line S/D is also required as Main CB of Fkk-Sagardighi line is not available)	
111	400kv Kh-Maithon ckt-1	16-10-2014	09:30	16-10-2014	17:30	ODB	NTPC	PM & Relay Testing.	
112	400 KV Bus coupler & 400 KV BUS-I at Malda	16-10-2014	07:00	16-10-2014	18:00	ODB	ER-II	CT & CVT change under ADDCAP.	
113	400KV, 125MVAR Bus Reactor-II	17-10-2014	8:00 AM	18-10-2014	5:00 PM	OCB	ER-II	Rectification of 400kV Isolators mechanical interlock.	
114	315MVA ICT-II Rourkela	17-10-2014	09:00	17-10-2014	17:00	ODB	ER-II	To attend oil leakage in OLTC and rectification of driving mechanism problem by M/S BHEL	OPTCL
115	400 KV JSR - MEJIA LINE	17-10-2014	09:30	17-10-2014	13:30	ODB	POWERGRID /JSR	VARIABLE FREQUENCY TAN DELTA OF CT	DVC
116	400KV MTN-KHG-II Line with LR	17-10-2014	09:00	17-10-2014	17:00	ODB	ER-II	PRD inspection/leakge arrest/PRD replacement of LR,Line CVT replacement	
117	400 KV JSR - MAITHON LINE	18-10-2014	09:30	18-10-2014	13:30	ODB	POWERGRID /JSR	VARIABLE FREQUENCY TAN DELTA OF CT	
118	315 MVA IBT - I AT KOLAGHAT	18-10-2014	06:00	18-10-2014	17:00	ODB	WBSETCL	MAINTENANCE WORK	
119	220KV MTN-Kalyaneshwari-I	18-10-2014	09:00	18-10-2014	17:00	ODB	ER-II	Line isolator arm replacement & remote operation checking	
120	132 KV Malda - Malda-I	19-10-2014	07:00	19-10-2014	18:00	ODB	ER-II	CT change under ADDCAP.	WBSETCL
121	220KV Bus-I Baripada	20-10-2014	09:00 hrs	21-10-2014	17:00 hrs	ODB	ER-II	AMP of 220KV Bus -I	OPTCL
122	400kv Bus-I Sundergarh	20-10-2014	8:00 AM	23-10-2014	5:00 PM	OCB	ER-II	Rectification of 400kV Isolators mechanical interlock.	NLDC
123	765 KV 3*500MVA ICT-II AT NRNC	20-10-2014	08:00	22-10-2014	18:00	ODB	POWERGRID /NRNC	FOR TESTING & COMMISSIONING WORK OF AUXILIARY BUS AND SWITCHING SCHEME OF SPARE TRANSFORMER / REACTOR	NLDC
124	400 KV JSR - RKL - I	20-10-2014	09:30	20-10-2014	13:30	ODB		VARIABLE FREQUENCY TAN DELTA OF CT	
125	220kv Tarkera- Budhipadar Ckt.-II	20-10-2014	08:00	22-10-2014	16:00	ODB	OPTCL	MAINTENANCE WORK	
126	400 KV Maithon - Durgapur #2	20-10-2014	09:00	20-10-2014	17:00	ODB	ER-II	Line and Bay AMP	
127	132 KV Malda - Malda -II	20-10-2014	07:00	20-10-2014	18:00	ODB	ER-II	CT change under ADDCAP.	WBSETCL
128	132 KV D/C UDAKISHANGANJ - SAHARSA LINE OF BSPTCL	21-10-2014	08:00	22-10-2014	18:00	ODB	POWERGRID/NPRN	FOR CROSSING OF HVDC LINE	BIHAR
129	315 MVA IBT - II AT KOLAGHAT	21-10-2014	06:00	21-10-2014	17:00	ODB	WBSETCL	MAINTENANCE WORK	
130	400 KV Maithon - Koderma-I Line Reactor	21-10-2014	09:00	21-10-2014	17:00	ODB	ER-II	Reactor bay AMP works	DVC
131	80 MVAR B/R AT PATNA	23-10-2014	09:00	13-10-2014	15:00	ODB	POWERGRID /PATNA	FOR AMP WORKS.	
132	400kv Bus-II Sundergarh	24-10-2014	8:00 AM	27-10-2014	5:00 PM	OCB	ER-II	Rectification of 400kV Isolators mechanical interlock.	NLDC
133	63 MVAR B/R AT MUZ	24-10-2014	09:00	24-10-2014	15:00	ODB	POWERGRID /MUZ	FOR AMP WORKS.	
134	132 KV SIWAN - MASRAKH OF BSPTCL	25-10-2014	08:00	26-10-2014	18:00	ODB	POWERGRID/ ER - 2	POWERLINE CROSSING OF 400 KV BARH - GORAKHPURTL	BIHAR
135	400 KV JSR - RKL - II	25-10-2014	08:00	25-10-2014	18:00	ODB	POWERGRID	To make LIO of Ckt- II through. up to S/S Gantry	
136	132kv S/c Birpara-Alipurduara	25-10-2014	8:00 hrs	26-10-2014	17:00 hrs	OCB	ER-II	For line diversion outside the 800kv HVDC terminal substation	WBSETCL
137	220KV Bus-II Baripada	27-10-2014	09:00 hrs	28-10-2014	17:00 hrs	ODB	ER-II	AMP of 220KV Bus -II	OPTCL
138	315 MVA ICT - I AT MUZ S/S	27-10-2014	09:00	27-10-2014	15:00	ODB	POWERGRID /MUZ	FOR AMP WORKS.	
139	400 KV BINAGURI - PURNEA D/C	16-10-2014	08:00	18-10-2014	18:00	ODB	ER-II	CROSSING OF HVDC LINE	NLDC
140	220 kv RAMCHANDRAPUR JODA S/C LINE (JSEB)	28-10-2014	08:00	28-10-2014	18:00	ODB	POWERGRID	For diversion of 220 KV Ramchandrapur - Joda S/C line (JSEB) by ERS.	OPTCL/JHARKHAND
141	220 KV BUS COUPLER AT MUZ	28-10-2014	09:00	28-10-2014	15:00	ODB	POWERGRID /MUZ	FOR AMP WORKS.	
142	220KV Transfer Bus Baripada	29-10-2014	09:00 hrs	30-10-2014	17:00 hrs	ODB	ER-II	AMP of 220KV Transfer Bus	OPTCL
143	220 KV TRANFER BUS COUPLER AT MUZ	29-10-2014	09:00	29-10-2014	15:00	ODB	POWERGRID /MUZ	FOR AMP WORKS.	
144	220 KV RANCHI - HATIA - II	30-10-2014	09:30	30-10-2014	17:30	ODB	POWERGRID/ RNC	FOR ISOLATOR ALIGNMENT WORKS .	JHARKHAND
145	400kv Fkk-Kh ckt-3	30-10-2014	09:30	30-10-2014	17:30	ODB	NTPC	PM & Relay Testing.	
146	400KV Mendhasal-BARIPADA-1	04-11-2014	08:00 hrs	05-11-2014	18:00 hrs	ODB	ER-II	All Tension tower jumpering nut & Bolts Tightning and Replacement of punctured insulator	
147	400KV Mendhasal-BARIPADA-2	06-11-2014	08:00 hrs	07-11-2014	18:00 hrs	ODB	ER-II	All Tension tower jumpering nut & Bolts Tightning and Replacement of punctured insulator	
148	400KV Mendhasal-BARIPADA-2	16-11-2014	08:00 hrs	17-11-2014	18:00 hrs	ODB	ER-II	All Tension tower jumpering nut & Bolts Tightning and Replacement of punctured insulator	
149	ICT#2 main bay at Subhasgram	17-11-2014	09:00	19-11-2014	17:00	ODB	ER-II	SF6 dew point correction in Bph pole of 406 CB	WBSETCL

**Anticipated Power Supply Position for the month of
Oct-14**

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
	i) NET MAX DEMAND	2450	1385
	ii) NET POWER AVAILABILITY- Own Source	500	64
	- Central Sector	1500	1197
	iii) SURPLUS(+)/DEFICIT(-)	-450	-124
2	JHARKHAND		
	i) NET MAX DEMAND	1090	680
	ii) NET POWER AVAILABILITY- Own Source	500	266
	- Central Sector	678	420
	iii) SURPLUS(+)/DEFICIT(-)	88	5
3	DVC		
	i) NET MAX DEMAND (OWN)	2710	1680
	ii) NET POWER AVAILABILITY- Own Source	3100	3000
	- Central Sector	472	338
	Long term Bi-lateral (Export)	2069	1539
	iii) SURPLUS(+)/DEFICIT(-)	-1207	119
4	ORISSA		
	i) NET MAX DEMAND	3700	2292
	ii) NET POWER AVAILABILITY- Own Source	2865	1745
	- Central Sector	1094	697
	iii) SURPLUS(+)/DEFICIT(-)	259	150
5	WEST BENGAL		
5.1	WBSEDCL		
	i) NET MAX DEMAND (OWN)	4898	2645
	ii) CESC's DRAWAL	650	153
	iii) TOTAL WBSEDCL's DEMAND	5548	2798
	iv) NET POWER AVAILABILITY- Own Source	3295	1849
	- Import from DPL	20	43
	- Central Sector	2033	1365
	v) SURPLUS(+)/DEFICIT(-)	-200	458
5.2	DPL		
	i) NET MAX DEMAND	260	220
	ii) NET POWER AVAILABILITY	280	263
	iii) SURPLUS(+)/DEFICIT(-)	20	43
5.3	CESC		
	i) NET MAX DEMAND	1850	908
	ii) NET POWER AVAILABILITY - OWN SOURCE	1070	725
	FROM WBSEDCL	690	153
	iii) TOTAL AVAILABILITY	1760	878
	iv) SURPLUS(+)/DEFICIT(-)	-90	-30
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
	i) NET MAX DEMAND	7008	3773
	ii) NET POWER AVAILABILITY- Own Source	4645	2836
	- Central Sector	2033	1365
	iii) SURPLUS(+)/DEFICIT(-)	-330	428
7	SIKKIM		
	i) NET MAX DEMAND	85	42
	ii) NET POWER AVAILABILITY- Own Source	16	6
	- Central Sector	125	83
	iii) SURPLUS(+)/DEFICIT(-)	56	47
8	EASTERN REGION		
	At 1.03 AS DIVERSITY FACTOR		
	i) NET MAX DEMAND	16547	9852
	Long term Bi-lateral	2069	1539
	ii) NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	15008	10478
	iii) PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	-1538	626