

Eastern Regional Power Committee **Kolkata-33**

Salient Decisions taken in 102nd OCC meeting held on 21.10.14

1. OCC agreed for augmentation for 3rd ICT of 500 MVA at 400kV Jeypore S/s. The issue was referred to TCC.
2. Powergrid informed that double bus scheme has been implemented at 400kV Anugul S/s and remaining main/tie breakers will be commissioned as per the schedule submitted before the house.
3. On extension of Talcher- Kolar pole trip signal to JITPL, Powergrid informed that wiring has been done and the scheme was tested for extension of signal from Talcher to JITPL.
4. On Islanding scheme of CTPS, DVC informed that order has been placed to Alstom, India on 16th October, 2014 and the implementation will take six more months (expected by March 2015).
5. On Optimization of GT tap position, APNRL informed that they have changed the GT tap position of both the GTs as per agreed settings; MPL also agreed to change their GT tap position as advised.
6. OCC advised to make 220 kV Dalkhola(PG)-Dalkhola(WB) D/C line operational for benefit of both WB and Bihar as well as improve the reliability of power supply to N. Bihar.

Eastern Regional Power Committee

Minutes of 102nd OCC Meeting held on 21st Oct, 2014 at ERPC, Kolkata

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

Item no. A.1: Confirmation of minutes of 101st OCC meeting of ERPC held on 26.09.2014

The minutes were uploaded in ERPC website and circulated vide letter dated 10.10.14 to all the constituents. No comments were received till date.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 101st 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.

In 101st OCC, 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.

NTPC/ JSEB may update.

Deliberation in the meeting

JSEB representative was not available for discussion.

Item no. B.2: Augmentation of 3rd ICT at 400kV Jeypore s/s.

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 3rd ICT, in view of contingency & reliability.

In 101st OCC, 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.

OPTCL may update.

Deliberation in the meeting

OPTCL requested Powergrid to give the test reports of the ICTs for analysis.

OCC advised Powergrid to give the test reports and loading pattern of ICTs to OPTCL. Powergrid agreed.

After deliberation, OCC agreed to the proposal of augmentation for 3rd ICT of 500 MVA at 400kV Jeypore S/s. The issue was referred to TCC.

Item no. B.3: 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 x 125MVA 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.

In 101st OCC, 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.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that double bus scheme has been implemented at 400kV Anugul S/s and submitted the schedule for commissioning of remaining main/tie breakers as follows:

- i. 400kV GMR bays (2 nos): 15th November, 2014
- ii. 400kV GMR-JITPL ties (2 nos) : 15th November, 2014
- iii. 400kV ICT-1 bay: 5th November, 2014
- iv. 400kV ICT-2 bay and tie: 6th November, 2014
- v. 400kV ICT-3 bay and tie: 7th November, 2014
- vi. 400kV ICT-4 bay and tie: 8th November, 2014
- vii. 400kV Monnet bays (2 nos) : 30th November, 2014

Item no. B.4: Scheduling of GMR---GMR

GMR KEL is evacuating power through LILO line connected to 400kV Talcher-Meramundali line. NOC was granted to GKEL to evacuate 550MW (Ex-PP) RTC power on 11th June, 2014 for a period of one year upto 10th June 2015. However, ERLDC vide email intimation dated 7th October, 2014, the evacuation limit has been revised to 500MW from 00:00hrs to 11:00hrs and 17:00hrs to 24:00hrs till 6th January, 2015. GKEL is being scheduled with this curtail quantum from 8th September, 2014. GKEL requested for restoration to 550MW RTC.

Members may discuss.

Deliberation in the meeting

It was informed that GKEL schedule has been restored to 550 MW.

OCC advised GKEL to interact directly with ERLDC in future for resolving such type of issues, instead placing in OCC.

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.

ERLDC may update.

Deliberation in the meeting

ERLDC informed that following data is not available with them,

- 400kV Durgapur-Sagardighi –II at Durgapur end
- 400kV Ranchi-New Ranchi at Ranchi end
- 400kV Mejia-Jamshedpur at Mejia end
- Tisco end data

OCC advised relevant constituents to send the requisite data. Constituents agreed.

ERLDC informed that there are some discrepancies with available data.

OCC advised ERLDC to send the discrepancy data to all constituents for updation.

Item no. B.6: 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.

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.

In 101st OCC, NTPC informed that shortly they would submit the DPR for Kahalgaon bus-splitting scheme to NLDC.

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

Members may update the status.

Deliberation in the meeting

Powergrid informed that they would inform the status on STATCOM in next OCC meeting.

Item no. B.7: Extension of Talcher-Kolar pole trip signal to JITPL for generation reduction

In 101st OCC, Powergrid informed that the relay has been installed but not yet wired. Powergrid informed that it will be commissioned by 30th September, 2014.

Powergrid & NTPC may update.

Deliberation in the meeting

Powergrid informed that wiring has been done and the scheme was tested for extension of signal from Talcher to JITPL.

OCC advised Powergrid and JITPL to give official correspondence for completion of the scheme to ERPC Secretariat /ERLDC.

Powergrid and JITPL agreed.

Item no. B.8: New Islanding Schemes in Eastern Region

B.8.1. 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.

In 101st OCC, JUSNL informed that the estimate has been sent to Headquarter for payment.

Powergrid/ JSEB may update the status.

Deliberation in the meeting

Powergrid informed that payment is yet to be received from JSEB.

B.8.2. 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.

In 101st OCC, DVC informed that the matter has been taken up with Head Quarter and the work order will be placed shortly on single bid system.

DVC may update the status.

Deliberation in the meeting

DVC informed that order has been placed to Alstom, India on 16th October, 2014 and the implementation will take six more months (expected by March 2015).

B.8.3. 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 101st OCC, WBPDC informed that it will be completed in schedule.

WBPDC may update the status.

Deliberation in the meeting

WBPDC informed that the scheme will be implemented by February, 2015.

B.8.4. 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.

In 101st OCC, 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.

WBSETCL may update the status.

Deliberation in the meeting

WBPDC informed that the scheme will be completed in schedule.

Item no. B.9: Concerned members may update the latest status.

B.9.1. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In 101st OCC, Sterlite informed that the order would be placed by this month for line and bay equipments.

Sterlite may update.

Deliberation in the meeting

Sterlite representative was not available in the meeting.

B.9.2. 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

GMR informed that work is in progress and the line will be commissioned by 30th October, 2014.

GMR also informed that their bays at Angul are ready. The charging approval for line and bays are to be obtained from Regional Inspectorate Office which is looking after by Powergrid.

OCC advised Powergrid to interact with inspectorate office for early completion.

Powergrid agreed.

B.9.3. 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.

Sikkim may update.

Deliberation in the meeting

Sikkim representative informed that the proposal has been submitted to cabinet for approval.

B.9.4. Status of 400kV Maithon-Gaya and Koderma-Gaya D/C lines.

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 work was delayed due to rain and 400kV Maithon-Gaya-I and Koderma-Gaya-I will be commissioned by November, 2014.

B.9.5. Status of 80MVAR Line reactor of 400kV Meramundali-Angul at Meramundali

In 101st OCC, OPTCL informed that the relay has been arranged; now commissioning work is in the process for fixing the relay settings by Powergrid.

OPTCL and Powergrid may update.

Deliberation in the meeting

OPTCL informed that relay has been installed and it will be commissioned as and when shutdown is accorded.

B.9.6. 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG) S/s

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

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

In 101st OCC OPTCL informed the status as follows:

- (i) LILO of OPTCL's Katapalli-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 the work is in progress as per schedule.

B.9.7. Power Evacuation from 400/ 220KV Daltanganj and Chaibasa Substations

In 101st OCC, 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.

Powergrid and JSEB may update the status.

Deliberation in the meeting

Powergrid informed that 400/220kV Chaibasa S/s will be charged on 27th October, 2014 and Transformer will be commissioned by November, 2014. Regarding downstream system Powergrid informed that they are yet to receive the fund from JSEB.

Regarding Daltanganj Powergrid informed that the status is same.

B.9.8. Status of works related to Implementation of SPS for 500MW round the clock power through HVDC Bheramara

In 101st 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 will be completed in schedule.

B.9.9. Modification of 132kV Bus arrangement at 220/132kV Purnea Sub-station of POWERGRID

In 101st OCC, Powergrid informed that work order is expected to be awarded in September, 2014. Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that order will be placed in October, 2014 and the implementation would take 18 to 24 months.

B.9.10. Augmentation of Transformation Capacity in PGCIL Grid S/s at Muzaffarpur, Purnea, Sampatchak(Patna) & Sasaram-- BSPHCL

In 101st OCC, 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.

Powergrid may update the status.

Deliberation in the meeting

Powergrid informed that the status as follows,

- *Muzaffarpur: The order was placed on 20th October, 2014 for augmentation of transformation capacity and it will take 18-24 months for completion.*
- *Sampatchak(Patna) & Sasaram: will be completed in schedule.*
- *Purnea: One 315 MVA ICT has already been augmented and other two will be completed by March, 2015.*

Item no. B.10: High voltage problem at 400kV Jeypore OPTCL Substation—OPTCL

In 101st OCC, 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.

Powergrid may update.

Deliberation in the meeting

ERLDC informed that further lowering of ICT tap position would cause some voltage excursion on 400 kV side and informed that it will be reviewed after HVDC Gajuwaka-Jeypore line is available.

Item no. B.11: 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).

In 101st OCC, regarding Third Party Protection with CPRI, OPTCL informed that till date they have not received any communication from CPRI.

Members may update.

Deliberation in the meeting

Updated status on compliance was placed.

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

OCC advised OPTCL to communicate the same to CERC.

Item no. B.12: 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.13: 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.14: Restricted Governor Mode of Operation

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

Members may update.

Deliberation in the meeting

Adhunik informed that both of their machines were under RGMO mode.

DVC has updated the status, the updated status has been made available at ERPC website.

Item no. B.15: Pollution mapping for Eastern Region -- Powergrid

In 101st OCC, 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.

Accordingly, Powergrid has communicated the issue to ERPC members of the respective constituents.

Powergrid may update the status.

Deliberation in the meeting

OPTCL informed that they have implemented at 45 more locations. The remaining locations are in South Odisha, which was affected by recent cyclone 'Hud Hud' so it will take time to implement at these locations.

OCC advised all constituents to implement the Pollution Mapping as early as possible. OCC also advised CTU/PGCIL to have direct interaction with the respective co-ordinators as well as TCC members of the concerned organization.

Item no. B.16: 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.17: Procurement of Emergency Restoration System (ERS Towers) for Eastern Region constituents- Powergrid

In 101st OCC, Powergrid informed that FR is under approval stage.

Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that the status is same.

Item no. B.18: Mock Black start exercises in Eastern Region – ERLDC

i) The status of black start exercises

In 101st OCC, OHPC informed that they rescheduled the Black start exercise as follows:

- i. U. Indravati HEP :- Last week of October, 14

OHPC/ERLDC may update.

Deliberation in the meeting

ERLDC informed that black start exercise for Rengai HEP was completed on 19.09.2014. The schedule of the Black start exercise as was updated by the members as follows:

- U. Indravati HEP :- Last week of October, 14
- Balimela:- 3rd week of November, 2014
- Theesta:- 2nd week of December, 2014

ii) Testing of DG sets meant for Black start

Report regarding test run of DG sets for the month of Sep, 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.19: Restoration of SCADA data

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

Updated status in 101st OCC is available circulated in the meeting.

CTU may update.

Deliberation in the meeting

Updated status is available in Annexure-B.19.

Replacement of RTUs at Kahalgaon, NTPC

In 101st OCC, 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.

Concerned Member may update.

Deliberation in the meeting

Powergrid informed that integration of feeders will be done as per the schedule.

Item no. B.20: 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.

In 101st OCC, Powergrid agreed to communicate the latest status within a week.

CTU may update.

Deliberation in the meeting

BSPTCL informed the following:

- *Powergrid is working on to commission the control centre only with the available RTU. Data exchange Between ERLDC and SLDC shall depend on the commissioning of server at ERLDC*

- Installation of 20 RTUs are under progress.
- Communication package is still pending with Powergrid.
- Mux has been delivered at Patna and being diverted to site.
- Laying of underground cable and commissioning from Jakkanpur to SLDC Patna under MW replacement scheme is still pending.

ERLDC informed that for server, FAT process is going on and after that the new sever will be installed at ERLDC, Kolkata.

Powergrid agreed to communicate the latest status within a week.

Item no. B.21: Reactive Power performance of Generators and GT tap position optimization

ERLDC may present the performance of the generators.

Deliberation in the meeting

ERLDC presented the status as follows:

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

Power Plant	Max and Min Voltage observed for Sep 14 (KV)	Date for monitoring (September 2014)
Farakka STPS	424, 410	1,2,24
Khalgaon STPS	Data not Available	NA
Talcher STPS	417, 405	8,22
Teesta	406,398	1,4
Bakreshwar TPS	411, 388	21,23
Kolaghat TPS	423, 395	21,23,25
Sagardighi TPS	423, 408	1,2
MPL	427,410	2,5
Mejia-B	428, 417	2,5,10
DSTPS	429, 419	2,5,10
Adhunik TPS	427, 412	2,10,21
Sterlite	426, 412	3,29,30

a) 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, MVA_r, 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.

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

ERLDC, MPL and Adhunik may update the status.

Deliberation in the meeting

APNRL informed that they have changed the GT tap position of both the GTs as per agreed settings.

MPL informed that they may face high voltage problem while synchronization of their generator with the agreed GT tap position.

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

MPL agreed.

PART C:: OPERATIONAL PLANNING

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

Members may also finalize the Shutdown proposals of the generating stations and transmission lines for the month of Nov' 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 November, 2014 is at Annexure-C.1.

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

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of Nov'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 Nov, 2014 after incorporating constituents' observations is given at Annexure-C.2.

Item no. C.3: Status of commissioning of generating station and transmission elements

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

ERLDC may update the following:

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

ERLDC updated the status as follows,

System frequency touched a minimum of 49.34Hz in September'14. Accordingly, no report of operation of UFR has been received from any of the constituents.

Members noted.

Item no. D.2: Prolonged outage of power system elements in Eastern Region

ERLDC updated the status as follows:

Generating Elements:

Generating	UNIT	CAP(MW)	DATE	REASONS FOR OUTAGE
MEJIA	3	210	15.06.14	HYDROGEN LEAKAGE
MEJIA B	7	500	11.10.14	SUPER HEATER TUBE
MEJIA	2	210	05.09.14	COAL SHORTAGE
WARIA	4	210	18.09.14	COAL SHORTAGE
DSTPS	1	500	08.09.14	COAL SHORTAGE
KODERMA	2	500	04.08.14	ASH POND PROBLEM
BANDEL	5	210	16.11.13	MAINTENANCE
BOKARO B	2	210	11.10.14	TUBE LEAKAGE
KOLAGHAT	4	210	15.09.14	BOILER TUBE LEAKAGE
DPL	7	250	07.10.14	TUBE LEAKAGE
DPL	8	250	02.10.14	C & I PROBLEM
JITPL	1	600	16.08.14	LEAKAGE IN STATOR
APNRL	2	270	11.10.14	ELECTRICAL FAULT
TALCHER	1	500	8.10.14	BOILER LICENSE

Transmission Elements:

Name of the Line/Element	Outage Date	Reason
220 KV JEERAT - SATGACHIA D/C	15.06.10	DUE TO LAND SLIDE OF GANGES
220 KV MENDHASAL-NARENDRAPUR-I	12.10.14	UNDER BREAKDOWN AFTER CYCLONE
400 KV JEYPORE-GAZUWAKA-I	12.10.14	EARTH FAULT/UNDER BREAKDOWN AFTER CYCLONE
400 KV JEYPORE-GAZUWAKA-II	12.10.14	EARTH FAULT/UNDER BREAKDOWN AFTER CYCLONE

Members noted.

Item no. D.3: Information regarding commissioning of new transmission element

ERLDC updated the status as follows:

1. 400 kV Lakhisarai-Kahalgaon-II (400kV Biharshariff-Kahalgaon-II line made LILO at Lakhisarai) was charged for the first time at 10:23 HRS of 01/09/14.
2. 400 KV Gaya-Maithon-II (400 kV Maithon-Koderma-II made LILO at Gaya) was charged for the first time at 18:11 HRS of 06/09/14.
3. 400 KV Gaya-Koderma-II (400 kV Maithon-Koderma-II made LILO at Gaya) was charged for the first time at 21:40 HRS of 06/09/14.
4. 400 KV/220 KV, 315 MVA ICT-I at Bidhannagar was charged for the first time at 21:12 HRS of 16/09/14.
5. 400 KV/220 KV, 315 MVA ICT-I at Arambag(commissioned as replacement for one No. 315MVA ICT shifted to Jeerat) was charged for the first time on no load at 16:48 HRS of 22/09/14 and first time loaded at 10:30 HRS of 24/09/14.
6. 3*80 MVAR, 765 KV B/R-II at Jhasuguda was charged for the first time at 12:10 HRS of 26/09/14.
7. 132 KV Lakhisarai (PG)-Lakhisarai (BSPHCL) was charged for the first time at 15:03 HRS of 27/09/14.

8. 132 KV Lakhisarai (PG)-Jamui (BSPHCL) was charged for the first time at 17:22 HRS of 27/09/14.
9. 220 KV/132 KV, 160 MVA ICT-III at Purnea was charged for the first time (idle from 220 KV side) at 16:37 HRS of 29/09/14 and loaded for the first time at 13:53 HRS on 30/09/14.
10. 63 MVAR L/R of 400 KV Patna-Kishangunj line was charged for the first time as B/R at Patna at 17:59 HRs of 30/09/14.

Members noted.

Item no. D.4: Grid incidences during the month of Sep, 2014.

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	132kV Purnea (BSPHCL) S/s	03/09/14 at 12:20hrs	0	150	Total power failure occurred at 132kV Purnea (BSPHCL) s/s due to R-Ø LA of 132kV Purnea (PG)-Purnea (BSPHCL)-II burst at Purnea (PG) end	-
2	OPTCL (Old Duburi, New Duburi)	08/09/14 at 11:28hrs.	0	250	Various 220kV and 132kV lines tripped from 220kV Duburi S/s due to PT cable fault occurred in 220kV Bus-I of the said S/s.	GD-1
3	OPTCL (Mendhasal, Chandaka and Bidanasi)	10/09/14 at 13:30hrs.	0	300	All the 400kV and 220kV feeders emanating from Mendhasal S/s tripped along with two ICTs and total power supply failed at Mendhasal S/s due to fault in downstream of the said S/s	GD-1
4	OPTCL (Angul and Meeramundali)	14/09/14 at 18:41hrs and 18:55hrs.	0	0	Total power failure occurred at Angul and Meeramundali S/s due to Y-N fault occurred in 400kV Meeramundali-IBTPS-I (idle charged from Meeramundali end).	GD-1
5	JSEB(Chandil)	21/09/14 at 06:32hrs	0	258	Total power failure occurred at 220kV Chandil S/S due to L-L-G fault (R-B Ph-G) occurred in 220kV Chandil-Ranchi (PG) line.	GD-1
6	DVC (Bokaro)	23/09/14 at 11:05hrs.	200	160	Total power failed at BTPS 'B' along with observation of heavy sound and flashing at dead end tower of 200kV BTPS-Jamshedpur-I line at BTPS'B' end.	GD-1

Members noted.

Item no. D.5: Any other items

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

In the 101st OCC meeting Powergrid confirmed the following:

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

Powergrid may furnish the latest status.

Deliberation in the meeting

Powergrid updated the status as follows:

- a) 400kV Rajarhat-Purnea D/C: Work order has been placed in March, 2014 take 32 months to complete the work.
- b) Augmentation of 400kV Farakka-Malda D/C with HTLS conductor- Work order would be placed by December, 2014 and completion schedule would be 18 months from date of award.

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

132 kV Dalkhola-Kishanganj is presently kept in an unutilized condition for a long period of time. Earlier it was kept open to avoid overloading of backward 132 kV system in West Bengal side, however with commissioning of 220/132 kV Substation at Dalkhola (WB) along with 220 kV Dalkhola(PG)-Dalkhola(WB) D/C this issue of loading of backward network is resolved. With closing of the 132kV Dalkhola(WB)-Kishanganj(BSPTCL) S/C line would relieve the loading of Purnea 220/132kV ATRs and enhance reliability of supply to N. Bihar and Nepal. Rejuvenation of this unused tie line will enhance reliability of supply to Purnea and adjoining areas. Therefore this tie needs to be restored at the earliest.

WBSETCL and BSPTCL may discuss.

Deliberation in the meeting

WBSETCL informed that it is very old line and not in service since long. They will check the status of the line from Dalkhola end and intimate the status in next OCC.

BSPTCL informed that the line is already idle charged from their end.

OCC advised to make the line operational for benefit of both WB and Bihar as well as improve the reliability of power supply to N. Bihar.

3. Persistent over drawal by West Bengal

It has been observed that West Bengal is persistently overdrawing from the Grid for the past few days. In spite of repeated non-compliance/alert/emergency messages no significant reduction of such over drawal is observed. Due to the above situation, ERLDC as a last resort has no other option but to go for opening of 220kV circuits between Dalkhola(PG) to Dalkhola(WB) D/C. Under the above circumstances, it is emphasized that proper forecast of demand may be carried out and adequate planning for demand management done so that such over-drawals are controlled. Also, suitable demand management may be carried out in Real Time so that any over-drawal of West Bengal is curtailed.

ERLDC would be presenting the details of over-drawal by West Bengal including details of lines opened to control such over-drawal.

Deliberation in the meeting

ERLDC presented the details.

OCC advised West Bengal to make efforts to avoid such large quantum of over-drawal.

West Bengal agreed.

4. Default of Short Term Open Access charges:

BSPHCL had applied for STOA on 17th June-14 for 18th June-14 from Madhya Pradesh Power Management Company Limited to Bihar State Power Holding Company Limited. Accordingly ERLDC had given the approval for the transaction. The billed amount for the transaction was **Rs.7,26,360** (Seven Lakhs Twenty Six thousand Three hundred and sixty only) and the last due date of payment was 20th June,2014. After long persuasion from

ERLDC through mails and letter also BSPHCL has not paid the STOA charges till date. As ERLDC has to pay the transmission charges to CTU and CTU will again in turn adjust the amount with the DICs, so due to default by BSPHCL, CTU is not able to disburse the amount to other DICs.

BSEB may intimate the programme for payment.

Deliberation in the meeting

BSEB agreed to release the payment as early as possible.

5. Negative Capped amount in Weekly DSM Bill

Since 2011, Differential Amount arising from capping is negative in weekly deviation Bill issued by ERPC in most of the week. Negative pool balance gives rise to problem for settlement of weekly deviation account. This negative amount in every week is being adjusted from Addl. Dev Charge by ERLDC Pool. This could be avoided if pool balancing is done after applying Addl. Deviation Charge to the Constituents/Beneficiary.

Members may please discuss.

Deliberation in the meeting

OCC referred the issue to Commercial Committee Meeting.

6. Status of construction of 132kV Banka-Deoghar line

Deliberation in the meeting

Powergrid agreed to update the status in next OCC.

7. Machine Islanding frequency of DVC units

DVC informed that BHEL is asking machine islanding frequency at which the machine should disconnect from the grid during grid disturbances.

Deliberation in the meeting

OCC advised DVC to consult with manufacturers for the islanding frequency.

8. DCD to Farakka and Tala –NTPC, PTC

NTPC informed that till date they have not received the DCD.

PTC informed that they need DCD at Tala Hydro Station.

Deliberation in the meeting

OCC advised Powergrid to provide DCDs to Farakka STPS and Tala HEP. Powergrid agreed.

OCC advised all constituents to charge the DCD frequently so that the battery would not get discharged.

Meeting ended with vote of thanks to the chair.

Participants in 102nd OCC Meeting

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 21.10.14 (Tuesday)

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

Participants in 102nd OCC Meeting

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 21.10.14 (Tuesday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
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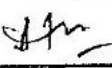

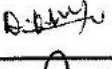
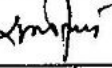

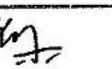
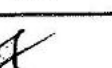
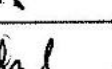

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Participants in 102nd OCC Meeting

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 21.10.14 (Tuesday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
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51	Pema Wangchuk	DSE	DGPC	17631982	pemachuk@gmail.com	
52	Tenzin Wangda	Section Officer	DGPC	17597374	tenzinwangdakhp@gmail.com	
53	JOYDEB BAROYOPADHYAY	SE(C)	ERPC			
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"Coming together is a beginning, staying together is progress, and working together is success." –Henry Ford

Latest status on non-availability of SCADA data

The status as updated in the 102nd 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	Latest status
1	DVC	220	CTPS-B (2 x 250 MW)	Except GT MW & line flow, no data available	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	Latest status
1	NTPC	400	Farakka: (3x200+ 2x500MW)	MW, MVAR of primary (LV) side of all GT is not available.	CTU informed that on 24-25.09.2014 termination done at RTU end. LV side data of Unit-1,2, 3, 4,5 made through. All are reporting
2	OPTCL	220	Vedanta (9x135 MW)	No status points are available.	No isolators status are available. MW/ MVAR not available for sterlite 1/2 line, station transformer / Smelter. CBs of Bus coupler not available. Bus-1 KV/ HZ not available.

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

S/n	Name of RTU locations	Latest status
1	Jakkanpur, Khagaul RTU, Dumraon, Karmanasha, Sitamarhi, , Purnea & Koshi	Now, All RTUs are communicating. Intermittency of GPRS related issue has been taken up with Airtel. Provision of dedicated communication is also in the scope of the PGCIL work.
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 November, 2014.
5	Begusarai, Rajgir and Hajipur 220 kV	Begusarai & Rajgir is reporting. <i>Hajipur is temporarily down, BSPTCL working to restore it.</i>
6	Jagdishpur, Sipara, Madhepura	RTU has been supplied by PGCIL under Sub-transmission project of Bihar but commissioning is left out. Now, it will be done in ULDC upgradation scheme.
7	Siwan, Valmikinagar, Gopalganj, Kisanganj and Arrah	RTU along with communication has been included in the scope of work of Powergrid under up gradation/ replacement scheme of ULDC. It was scheduled to be completed by Oct' 14. <i>RTU supplied by M/s. Chemtrols except Darbhanga. RTU reached site.</i>

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

Sl. No.	Name of the RTU location	Latest Status
1	Ramchandrapur	Reporting is interrupted because of problem in PLCC link between Candil & Ramchandrapur. CVT brusted at Ramchandrapur bay and requires replacement. Arrangement in being done for its replacement.
2	Jamtara	Jamtara RTU has been shifted in new control room. POWER GRID has been requested to reintegrate the feeders in RTU as integration of additional feeder (new element) in the existing RTU. <i>Powergrid informed that Advance Payment towards new element integration is pending since long. After payment, M/s. ALSTOM will give the schedule of site visit for feeder integration.</i>
3	Deoghar	Both LMU & LMDU rusted at Jamtara. Arrangement inbeing done for its replacement. Deoghar-Jamtara-Maithon link is interrupted also because of snatching of patching cable at Maithon (G) and Maithon (SLDC). This was found during survey of sites with M/s PUNCOM which will be corrected by the agency under AMC. AMC by PUNCOM has been started.
4	Garawah	Garawah RTU will be restored when it will be connected from Ranchi end through Hatia-Loherdaga-Latehar-Daltonganj –Garwah Transmission lie.
5	Sikidri	AMC by PUNCOM has been started. PUNCOM engineers are attending the sites for rectification of fault in PLCC causing non reporting of RTUs.
6	Patratu	
7	Tenughat	
8	Rajkharsawan	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.
9	Kendposi	
10	Goilkeria	
11	Jadugoda	Co-axial cable faulty at Golmuri (Chandil bay)

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

S/n	Name of RTU Locations	Latest Status
1	Nalco	OPTCL informed that RTU is reporting but intermittent since it was not configured properly. The issue was already taken up with Nalco and it will be resolved soon.

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

SL No	Name of station/ Utility	Reason for non reporting	Latest status
I	NHPC Rangit	No measurands are available for Gangtok 132 KV feeder in Rangit NHPC RTU	Powergrid informed that Digital data has been integrated on 22.09.14. Now analog & digital data of Rangit-Gangtok feeder are reporting at ERLDC.
II	Lalmatia JSEB	MW / MVAR/ OLTC tap of 220/132 KV ICT –II not available	MW/MVAR/OLTC tap of 220/132 KV ICT-II not available.
III	Mendhasal	400 KV Baripda 1 & 2 line flow and Reactors data, Tap position of both	OPTCL informed that reporting except OLTC data.

		400 ICTs not available since charging of bays.	
IV	JSPL (Meramundali - 400)	Most of the data not available .	OPTCL informed that JSPL is reporting to SLDC, Odisha; data will be extended to ERLDC
V	Jhasurguda 400	Data reporting is highly intermittent.	<i>Jhasurguda SAS is now reporting through Optical fiber link (from 24.09.2014) & data reporting at ERLDC is now stable.</i>
VI	DVC		
	Ramgarh	Data for 220 KV bay not available	RTU Commissioned. Data reporting.
	Putki		RTU installation Completed. RTU Cabling in progress.
	Patherdiah,		RTU reached site.
	Kalipahari		RTU reached site.

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

SL No	Name of station/ Utility	Reason for non reporting	Latest status
I	WBSETCL		
	Subhasgram	RTU not provided for data telemetry	Data integrated
	New Bishnupur		Data integrated
	Bantala		Commissioning work completed. Data integrated
	New Town		Data integrated
	Krishna Nagar		RTU commissioned.
	Kalingpong		RTU is reporting.
	Karseong		RTU commissioned. Communication link to be provided by WBSETCL.
	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
II	DVC		
	Burnpur	RTU not provided for data telemetry	Data integrated
	Dhanbad		Data integrated
	Chandil (Manique)		Data integrated
III	JSEB		
	Hatia New	RTU not provided for data telemetry	<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>

Annexure-C.1**Proposed Maintenance Programme of thermal units during November, 2014.**

SYSTEM	POWER STATION	Unit NO.	Effective Capacity	Maintenance Programme	Remarks	No.of Days
WBDCL	BKTPP	Unit No 2	210	20.11.2014 to 24.12.2014	BTG/RLA/EHG	34
WBDCL	SgTPP	Unit No 1	300	24.10.2014 to 14.11.2014	Blr. O/H	20
CESC	Titagarh TPS	Unit No. 1	60	15.11.2014 to 29.11.2014	Insp Boiler+Turbine job	15
CESC	Southern TPS	Unit No 1	67.5	30.11.2014 to 03.12.2014	Statutory Hydraulic test	4
(NTPC)	TTPS	Unit No 6		09.11.2014 to 30.11.2014	ESP Normalisation	21
OPGC	IB TPS	Unit No 2	210	01.11.2014 to 30.12.2014	Major AOH with ESP Upgradation	60
SEL		Unit No.1	600	01.11.2014 to 31.12.2014	Annual Overhaul	61

**EASTERN REGIONAL LOAD DESPATCH CENTRE
KOLKATA**

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 102ND OCC MEETING OF ERPC

Sr. No	S/D APPROVED IN OCC NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S/D availed BY	Reason	SUBJECT TO CONSENT FROM AGENCY
1	400KV Baripada-Keonjhar Line	22-10-2014	09:00	22-10-2014	17:00	ODB	ER-II	Jumping nut & Bolts Tightning and Replacement of punctured insulator	
2	125 MVAR B/R -1 AT PATNA	24-10-2014	09:30	27-10-2014	17:30	OCB	ER-I	FOR BAY EXTENSION WORK OF PATNA - KISHANGANJ LINE - 2	
3	765 KV MAIN BUS -2 AT NEW RANCHI S/S	25-10-2014	08:00	26-10-2014	18:00	ODB	ER-I	STRINGING I.R.O EXTENSION OF 765 KV MAIN BUS -2 FOR 765 KV DHARMJAYGARH BAYS	NLDC
4	400 KV JAMSHEDPUR - ROURKELA - 1	25-10-2014	08:00	27-10-2014	18:00	OCB	ER-I	FOR LILO OF 400 KV JSR - RKL - I AT CHAIBASA	
5	400 KV PANTA - BALIA - 3	25-10-2014	09:00	25-10-2014	17:00	ODB	ER-I	AMP OF BAY AND RELAYS	NLDC
6	400 KV PATNA- BARH -1	26-10-2014	08:00	28-10-2014	18:00	ODB	ER-I	SHIFTING OF LINE REACTOR OF SAID LINE	NLDC
7	400 KV BUS -1 AT PATNA	26-10-2014	09:30	27-10-2014	17:30	ODB	ER-I	FOR BAY EXTENSION WORK OF PATNA - KISHANGANJ LINE - 2	
8	400 KV PANTA - BALIA - 4	26-10-2014	09:00	26-10-2014	17:00	ODB	ER-I	AMP OF BAY AND RELAYS	NLDC
9	315MVA ICT-II of Keonjher	26-10-2014	09:00	10-11-2014	17:00	OCB	ER-II	Internal inspection of ICT-II for DGA violation	
10	400 KV SEL - Raigarh # 2	26-10-2014	09:00	26-10-2014	17:00	ODB	ER-II	Jumper tightening works,VD adjustment,Corona ring tightening and spacer tightening works .	NLDC
11	D/C LILO portion of Rourkela-Raigarh-III at Sterlite Energy (comprise of 2 lines Rourkela-SEL-II & SEL- Raigarh-II)	26-10-2014	08:00	26-10-2014	17:00	ODB	ER-II	For stringing work of 765KV S/C Angul-Jharsuguda Lines	NLDC
12	220KV D/C Budhipadar-Tarkera	28-10-2014	08:00	28-10-2014	17:00	ODB	ER-II	For stringing work of 765KV S/C Angul-Jharsuguda Lines	OPTCL
13	400 KV PATNA- BARH -2	29-10-2014	08:00	01-11-2014	18:00	ODB	ER-I	SHIFTING OF LINE REACTOR OF SAID LINE	NLDC
14	400 kV Indravati - Rengali Line Reactor (50 MVAR)	29-10-2014	10:00	06-11-2014	17:00	OCB	ER-II	Filtration of the Line Reactor due to violation in PPM value.	
15	400 kV Indravati - Rengali	29-10-2014	10:00	29-10-2014	11:00	ODB	ER-II	To Isolate the 400 kV Indravati Line Reactor.	
16	400 KV Sundergarh - Raigarh # 2	31-10-2014	09:00	31-10-2014	17:00	ODB	ER-II	Jumper tightening works,VD adjustment,Corona ring tightening and spacer tightening works .	NLDC
17	A/R 400 KV BINAGURI - RANGPO	01-11-2014	08:00	30-11-2014	18:00	ODB	ER-II	OPGW STRINGING WORK	
18	A/R 400 KV BARIPADA - JAMSHEDPUR	01-11-2014	08:00	30-11-2014	18:00	ODB	ER-II	OPGW STRINGING WORK	
19	A/R 400 KV BOLANGIR - ANUGUL	01-11-2014	08:00	30-11-2014	18:00	ODB	ER-II	OPGW STRINGING WORK	NLDC
20	A/R OF 400 KV KHLG - BANKA - 2	01-11-2014	09:00	30-11-2014	18:00	ODB	POWERGRID /ER-1	FOR INSTALLATION OF OPGW.	
21	A/R OF 400 KV BSF - BANKA - 2	01-11-2014	06:00	30-11-2014	19:00	ODB	POWERGRID /ER-1	FOR INSTALLATION OF OPGW.	
22	400 KV MUZ - BSF -2	01-11-2014	06:00	30-11-2014	19:00	ODB	POWERGRID /ER-1	FOR INSTALLATION OF OPGW.	Will be discussed in OCC
23	A/R OF 400 KV KHLG - BARH -2	01-11-2014	06:00	30-11-2014	19:00	ODB	POWERGRID /ER-1	FOR INSTALLATION OF OPGW.	After A/R shutdown of Kahalgaon - Banka - Biharsariff
24	132 KV D/C KONAR - HAZARIBAG ROAD (DVC)	01-11-2014	10:00	02-11-2014	13:00	ODB	ER-I	FOR STRINGING WORK OF 400 KV D/C BOKARO - KODERMA TL AT LOC.51/0-52/0.	DVC
25	765 KV B/R -1 AT NEW RANCHI S/S	03-11-2014	08:00	04-11-2014	18:00	ODB	ER-I	TO CARRY OUT THE TESTING AND COMMISSIONING WORK OF AUXILIARY BUSES AND SWITCHING SCHEME OF SPARE TRANSFORMER AND REACTOR AT NEW RANCHI	NLDC
26	200 MVA ICT - I AT LKH S/S	03-11-2014	10:00	03-11-2014	13:00	ODB	ER-I	TESTING OF OLTC THROUGH SCADA	BIHAR
27	765/400kV 3*500MVA ICT-II at Sundargarh	03-11-2014	8:00 AM	04-11-2014	5:00 PM	OCB	ER-II	Commissioning of PSD, Online Dry Out, Online Gas monitor system and attending constructional punch points.	NLDC
28	400 KV Keonjher-Rengali Line	03-11-2014	09:00	08-11-2014	19:00	ODB	ER-II	Erection of Beam , Stringing of Jack Bus in Future bay	
29	400 KV Main Bus-I at Keonjher	03-11-2014	09:00	08-11-2014	19:00	ODB	ER-II	Erection of Beam , Stringing of Jack Bus in Future bay	
30	400kv FARAKKA - KAHALGAON - 1	03-11-2014	09:30	04-11-2014	17:30	OCB	NTPC	Main-2 protn. relay retrofitting.	NLDC
31	200 MVA ICT - II AT LKH S/S	04-11-2014	10:00	04-11-2014	13:00	ODB	ER-I	TESTING OF OLTC THROUGH SCADA	BIHAR
32	400 KV BSF - GAYA	16-11-2014	08:00	19-11-2014	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 400 KV BSF - SSRM -4.	NLDC
		16-11-2014	08:00	28-10-2014	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 765 KV GAYA - BALIA	NLDC
33	400 KV SSRM - BALIA	16-11-2014	08:00	19-11-2014	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS A 400 KV BSF - SSRM - IV	NLDC
		16-11-2014	08:00	28-10-2014	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED. ON RESTORATION THE SAID LINE WILL BE CHARGED AS 765 KV GAYA - BALIA	NLDC
34	400 KV (Quad) Purnea-Muzaffarpur Circuit-I	05-11-2014	09:00	24-11-2014	17:00	ODB	ER-I	For changing 160 KN insulators by Polymer insulators.	NLDC

35	220 KV BUS -1 AT NEW PURNEA S/S	05-11-2014	10:00	05-11-2014	16:00	ODB	ER-I	AMP WORK	
36	220 KV BUS -1 AT 400/220 KV RANCHI S/S	05-11-2014	09:30	05-11-2014	17:30	ODB	ER-I	AMP WORK	JHARKHAND
37	400 KV BSF - SSRM - 3	05-11-2014	08:00	07-11-2014	18:00	ODB	ER-I	S/D OF SAID CKT. IS REQUIRED IN VIEW OF CHARGING OF 400 KV BSF - SSRM -IV	NLDC
38	765KV Bus Reactor-1 at Sundargarh	05-11-2014	8:00 AM	06-11-2014	5:00 PM	OCB	ER-II	Commissioning of PSD, Online Dry Out, Online Gas monitor system and attending constructional punch points.	NLDC
39	400KV Jeypure-Bolangir Line	05-11-2014	09:00hrs	05-11-2014	14:00hrs	ODB	ER-II	For Replacement of 3no.s Damping resistor units in FSC & Final commissioning of CSD of Line Reactor	NLDC
40	400KV Bus -I at Balangir	05-11-2014	9:00 AM	05-11-2014	5:00 PM	ODB	ER-II	Rectification works on Bus-side isolator and jumpers for 407 bay	
41	50 MVAR Bus Reactor of Rourkela	05-11-2014	09:00	05-11-2014	17:00	ODB	ER-II	AMP Work	
42	400kv FARAKKA - KAHALGAON - 2	05-11-2014	09:30	06-11-2014	17:30	OCB	NTPC	Main-2 protn. relay retrofitting.	NLDC
43	400KV BUS -I at Baripada	06-11-2014	09:00 hrs	07-11-2014	17:00 hrs	ODB	ER-II	AMP of 400KV Bus -I	
44	220 KV BUS -2 AT 400/220 KV RANCHI S/S	06-11-2014	09:30	06-11-2014	17:30	ODB	ER-I	AMP WORK	JHARKHAND
45	765 KV B/R -2 AT NEW RANCHI S/S	06-11-2014	08:00	07-11-2014	18:00	ODB	ER-I	TO CARRY OUT THE TESTING AND COMMISSIONING WORK OF AUXILIARY BUSES AND SWITCHING SCHEME OF SPARE TRANSFORMER AND REACTOR AT NEW RANCHI	NLDC
46	315 MVA ICT - I AT PSL S/S	06-11-2014	09:00	06-11-2014	17:00	ODB	ER-I	AMP	BIHAR
47	220 KV BUS -2 AT NEW PURNEA S/S	07-11-2014	10:00	07-11-2014	16:00	ODB	ER-I	AMP WORK	
48	63 MVAR LINE REACTOR -1 ASSOCIATED WITH PATNA-KISHANGANJ -1 LINE	07-11-2014	09:30	08-11-2014	17:30	OCB	ER-I	FOR BAY EXTENSION WORK OF PATNA - KISHANGANJ LINE - 2	
49	220 KV TRANSFER BUS AT 400/220 KV RANCHI S/S	07-11-2014	09:30	07-11-2014	17:30	ODB	ER-I	AMP WORK	
50	132 KV D/C KONAR - HAZARIBAG ROAD (DVC)	07-11-2014	10:00	08-11-2014	13:00	ODB	ER-I	FOR STRINGING WORK OF 400 KV D/C BOKARO - KODERMA TL AT LOC.62/0-63/0.	DVC
51	315 MVA ICT - II AT PSL S/S	07-11-2014	09:00	07-11-2014	17:00	ODB	ER-I	AMP	BIHAR
52	400KV BUS -II at Baripada	07-11-2014	09:00 hrs	08-11-2014	17:00 hrs	ODB	ER-II	AMP of 400KV Bus -II	
53	765KV Bus Reactor-2 of Sundargarh	07-11-2014	8:00 AM	08-11-2014	5:00 PM	OCB	ER-II	Commissioning of PSD, Online Dry Out, Online Gas monitor system and attending constructional punch points.	NLDC
54	400kv FARAKKA - DURGAPUR - 1	07-11-2014	09:30	08-11-2014	17:30	OCB	NTPC	Main-2 protn. relay retrofitting.	
55	220kv Tarkera- Rourkela - I	07-11-2014	08:00	08-11-2014	16:00	ODB	OPTCL	Maintenance work	
56	400 KV BSF-BALIA - 2	08-11-2014	09:00	08-11-2014	17:00	ODB	ER-I	FOR AMP OF BAY AND LINE	NLDC
57	400 KV TATA STEEL - BARIAPADA (CKT- 1)	08-11-2014	09:00	08-11-2014	17:00	ODB	ER-I	REPLACEMENT OF BROKEN INSULATOR AT LOCATION NO. 170 DAMAGED BY MISCREANTS AND TIGHTENING OF CC RINGS AND V.D. OF LINE.	
58	400 KV MTN - KODERMA - 1	20-11-2014	08:00	20-11-2014	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED .ON RESTORATION THE LINE WILL BE CHARGED AS A 400 KV GAYA - MTN - I	NLDC / DVC
		20-11-2014	08:00	22-11-2014	18:00	OCB	ER-I	PERMANENT S/D OF SAID CKT. IS REQUIRED .ON RESTORATION THE LINE WILL BE CHARGED AS A 400 KV GAYA - KODERMA - I	NLDC / DVC
59	400 KV GAYA - KODERMA - II	20-11-2014	08:00	22-11-2014	18:00	ODB	ER-I	S/D OF SAID CKT. IS REQUIRED IN VIEW OF CHARGING OF 400 KV GAYA - KODERMA - I	NLDC / DVC
		20-11-2014	08:00	20-11-2014	18:00	ODB	ER-I	S/D OF SAID CKT. IS REQUIRED IN VIEW OF CHARGING OF 400 KV GAYA - MTN - I	NLDC / DVC
60	132KV D/C Budhipadar-Sundargarh Line of OPTCL	09-11-2014	08:00	09-11-2014	17:00	ODB	ER-II	For stringing work of 765KV S/C Angul-Jharsuguda Lines	OPTCL
61	400kv Kahalgaon-Barh ckt-2	10-11-2014	09:30	10-11-2014	17:30	ODB	NTPC	PM works & Relay Testing.	NLDC
62	315 MVA ICT -3 AT BIHARSHARIF	10-11-2014	09:00	10-11-2014	17:00	ODB	ER-I	FOR AMP OF 220KV BAY AT BSPTCL	BIHAR
63	125 MVAR B/R -1 AT PATNA	10-11-2014	09:30	12-11-2014	17:30	OCB	ER-I	FOR BAY EXTENSION WORK OF PATNA - KISHANGANJ LINE - 2	
64	315 MVA ICT -1 AT JAMSHEDPUR S/S	10-11-2014	09:30	10-11-2014	17:30	ODB	ER-I	APM WORK & VARIABLE FREQUENCY TAND ELTA OF BUSHING	JHARKHAND
65	132 KV D/C BTPS - KONAR (DVC)	10-11-2014	08:00	11-11-2014	18:00	ODB	ER-I	FOR STRINGING WORK OF 400 KV D/C BOKARO - KODERMA TL AT LOC.94/0-95/0.	DVC
66	400 KV JAMSHEDPUR - ROURKELA -1	25-11-2014	08:00	27-11-2014	18:00	OCB	ER-I	FOR LILO OF 400 KV JSR - RKL - I AT CHAIBASA	
67	400kv Bus Reactor-1 of Sundargarh	10-11-2014	8:00 AM	11-11-2014	5:00 PM	OCB	ER-II	Commissioning of PSD	NLDC
68	Line. Reactor of Jeypure line at Bolangir	10-11-2014	9:00 AM	10-11-2014	5:00 PM	ODB	ER-II	Erection work of NGR bypass system of L/R of Jaypure Line.	
69	400 KV Main Bus-I at Keonjher	10-11-2014	09:00	11-11-2014	19:00	ODB	ER-II	Extension of 400 KV Bus-I	
70	400kv Farakka -Durgapur ckt-2	10-11-2014	09:30	11-11-2014	17:30	OCB	NTPC	Main-2 protn. relay retrofitting.	
71	220kv Meeramundali-Kaniha-I	11-11-2014	07:00	12-11-2014	17:00	ODB	OPTCL	AMP WORK	
72	220 KV TRANSFER BUS AT NEW PURNEA S/S	11-11-2014	10:00	11-11-2014	16:00	ODB	ER-I	AMP WORK	
73	400 KV BSF-BANKA -1	11-11-2014	09:00	11-11-2014	17:00	ODB	ER-I	FOR AMP OF BAY AND LINE	NLDC
74	220 KV ARA-SASARAM - 1	11-11-2014	10:00	11-11-2014	16:00	ODB	ER-I	AMP WORK	BIHAR
75	200 MVA ICT -1 AT BANKA	11-11-2014	10:00	11-11-2014	14:00	ODB	ER-I	AMP WORK	BIHAR
76	400 KV RANCHI-RAGHUNATHPUR LINE	11-11-2014	12:00	11-11-2014	17:00	ODB	ER-I	POWERLINE CROSSING CLEARANCE OF 400 KV RANCHI-MAITHAN AND 400 KV RANCHI-RAGHUNATHPUR LINE	DVC
77	400 KV RANCHI-MAITHAN LINE	11-11-2014	12:00	11-11-2014	17:00	ODB	ER-I	POWERLINE CROSSING CLEARANCE OF 400 KV RANCHI-MAITHAN AND 400 KV RANCHI-RAGHUNATHPUR LINE	
78	220 KV SANTHALDIH - CHANDIL (WBSETCL)	11-11-2014	12:00	11-11-2014	17:00	ODB	ER-I	POWERLINE CROSSING CLEARANCE OF 400 KV RANCHI-MAITHAN AND 400 KV RANCHI-RAGHUNATHPUR LINE	JHARKHAND / WBSETCL

79	765 KV L/R AT NEW RANCHI S/S	11-11-2014	08:00	11-11-2014	18:00	ODB	ER-I	TO CARRY OUT THE TESTING AND COMMISSIONING WORK OF AUXILIARY BUSES AND SWITCHING SCHEME OF SPARE TRANSFORMER AND REACTOR AT NEW RANCHI	NLDC
80	400kv Bus Reactor-1 at Kahalgao	11-11-2014	09:30	15-11-2014	17:30	OCB	NTPC	Reactor Oil filtration, PM works & Testing.	
81	400 kv Barh – Patna ckt-3	11-11-2014	09:00	12-11-2014	17:30	ODB	NTPC	PM job of CTs, CVTs, LAs, Isolators, CBs of Main & Tie bays And Relays testing	NLDC
82	315 MVA ICT - 2 AT JAMSHEDPUR S/S	12-11-2014	09:30	12-11-2014	17:30	ODB	ER-I	APM WORK & VARIABLE FREQUENCY TAND ELTA OF BUSHING	JHARKHAND
83	132 KV PURNEA - SAHARSHA (OF BSPTCL)	12-11-2014	08:00	13-11-2014	18:00	ODB	ER-I	FOR STRINGING OF 800 KV HVDC ISLAMPUR-SAHARSHS SECTION OF BISWANATH-CHARYALI-AGRA TL	BIHAR
84	220 KV ARA-SASARAM - 2	12-11-2014	10:00	12-11-2014	16:00	ODB	ER-I	AMP WORK	BIHAR
85	200 MVA ICT - 2 AT BANKA	12-11-2014	10:00	12-11-2014	14:00	ODB	ER-I	AMP WORK	BIHAR
86	50 MVAR B/R -1 AT JAMSHEDPUR	12-11-2014	09:30	12-11-2014	17:30	ODB	ER-I	APM WORK & VARIABLE FREQUENCY TAND ELTA OF BUSHING	
87	80 MVAR Bus Reactor of Keonjher	12-11-2014	09:00	12-11-2014	19:00	ODB	ER-II	Erection of FF Detection Line	
88	132KV S/C Sambalpur-Rairakhol Line of OPTCL	12-11-2014	08:00	12-11-2014	17:00	ODB	ER-II	For stringing work of 765KV S/C Angul-Jharsuguda Lines	OPTCL
89	LINE Reactor of Anugul line at Bolangir	12-11-2014	9:00 AM	12-11-2014	5:00 PM	ODB	ER-II	Erection work of NGR bypass system of L/R of AnugulLine.	
90	400kv Bus Reactor-2 of Sundargarh	12-11-2014	8:00 AM	13-11-2014	5:00 PM	OCB	ER-II	Commissioning of PSD	
91	400kv Farakka -Malda ckt-1	12-11-2014	09:30	13-11-2014	17:30	OCB	NTPC	Main-1 protn. relay retrofitting.	NLDC
92	220kv Kaniha- TTPS DC line(Loc no.29 to 98)	12-11-2014	07:00	13-11-2014	17:00	ODB	OPTCL	Maintenance work	NTPC
93	220kv Meeramundali-Kaniha-II	13-11-2014	07:00	14-11-2014	17:00	ODB	OPTCL	AMP WORK	
94	220 KV BUS-1 AT ARA	13-11-2014	09:30	13-11-2014	17:30	ODB	ER-I	AMP WORK	BIHAR
95	50 MVAR B/R - 2 AT JAMSHEDPUR	13-11-2014	09:30	13-11-2014	17:30	ODB	ER-I	APM WORK & VARIABLE FREQUENCY TAND ELTA OF BUSHING	
96	765 KV ICT - 1 AT NEW RANCHI S/S	13-11-2014	08:00	14-11-2014	18:00	ODB	ER-I	TO CARRY OUT THE TESTING AND COMMISSIONING WORK OF AUXILIARY BUSES AND SWITCHING SCHEME OF SPARE TRANSFORMER AND REACTOR AT NEW RANCHI	NLDC
97	400 KV BSF-BANKA - 2	14-11-2014	09:00	14-11-2014	17:00	ODB	ER-I	FOR AMP OF BAY AND LINE	NLDC
98	400 KV BUS -1 AT PATNA	14-11-2014	09:30	15-11-2014	17:30	ODB	ER-I	FOR BAY EXTENSION WORK OF PATNA - KISHANGANJ LINE - 2	
99	220 KV BUS-2 AT ARA	14-11-2014	09:30	14-11-2014	17:30	ODB	ER-I	AMP WORK	BIHAR
100	MAIN BAY OF 400 KV JAMSHEDPUR - DURGAPUR LINE	14-11-2014	09:30	14-11-2014	13:30	ODB	ER-I	VARIABLE FREQUENCY TAND ELTA OF CT	
101	765kv Sundergarh-Dharamjaygarh Line-1	14-11-2014	8:00 AM	14-11-2014	5:00 PM	ODB	ER-II	Attending constructional punch points.	NLDC
102	400kv Farakka-Behrapore	15-11-2014	07:00	15-11-2014	12:00	OCB	NTPC	Main-1 protn. relay retrofitting.	NLDC/ WBSETCL
103	400kv Farakka-Behrapore	16-11-2014	07:00	16-11-2014	14:00	OCB	NTPC	Main-1 protn. relay retrofitting.	NLDC/ WBSETCL
104	220 BV BUS COUPLER AT ARA	15-11-2014	09:00	15-11-2014	15:00	ODB	ER-I	AMP WORK	BIHAR
105	MAIN BAY OF 400 KV JAMSHEDPUR - MEJIA LINE	15-11-2014	09:30	15-11-2014	13:30	ODB	ER-I	VARIABLE FREQUENCY TAND ELTA OF CT	DVC
106	765kv Sundergarh-Dharamjaygarh Line-2	15-11-2014	8:00 AM	15-11-2014	5:00 PM	ODB	ER-II	Attending constructional punch points.	NLDC
107	400KV KTRP-ARAMB	16-11-2014	07:00	16-11-2014	15:00		WBSETCL	Mnt. Work	
108	MAIN BAY OF 400 KV JAMSHEDPUR - MAITHAN LINE	17-11-2014	09:30	17-11-2014	13:30	ODB	ER-I	VARIABLE FREQUENCY TAND ELTA OF CT	
109	315MVA ICT-I of Rourkela	17-11-2014	09:00	17-11-2014	17:00	ODB	ER-II	To attend oil leakage in OLTC and rectification of driving mechanism problem by M/S BHEL	OPTCL
110	400kv Farakka-Lalmatia	17-11-2014	09:30	18-11-2014	17:30	OCB	NTPC	Main-2 protn. relay retrofitting.	JHARKHAND
111	220 KV D/C PURNEA - SINGHESHWAR (OF BSPTCL)	18-11-2014	08:00	19-11-2014	18:00	ODB	ER-I	FOR STRINGING OF 800 KV HVDC ISLAMPUR-SAHARSHS SECTION OF BISWANATH-CHARYALI-AGRA TL	BIHAR
112	400 KV BSF-LAKHISARAI- 1	18-11-2014	09:00	18-11-2014	17:00	ODB	ER-I	FOR AMP OF BAY AND LINE	NLDC
113	MAIN BAY OF 400 KV JAMSHEDPUR - ROURKELA - 1 LINE	18-11-2014	09:30	18-11-2014	13:30	ODB	ER-I	VARIABLE FREQUENCY TAND ELTA OF CT	
114	765 KV ICT -2 AT NEW RANCHI S/S	18-11-2014	08:00	20-11-2014	18:00	ODB	ER-I	TO CARRY OUT THE TESTING AND COMMISSIONING WORK OF AUXILIARY BUSES AND SWITCHING SCHEME OF SPARE TRANSFORMER AND REACTOR AT NEW RANCHI	NLDC
115	220kv Bus-I & II @ Joda	18-11-2014	08:00	19-11-2014	16:00	ODB	OPTCL	Maintenance work	DVC
116	400KV BAY SAGARDIGHI - PARULIA#1 AT SAGARDIGHI	18-11-2014	07:00	18-11-2014	15:00		WBSETCL	Mnt. Work	
117	315MVA ICT-II of Rourkela	19-11-2014	09:00	19-11-2014	17:00	ODB	ER-II	To attend oil leakage in OLTC and rectification of driving mechanism problem by M/S BHEL	OPTCL
118	400KV Tie-BAY SGTPP - PARULIA#1 AT SGTPP	19-11-2014	07:00	19-11-2014	15:00		WBSETCL	Mnt. Work	
119	400/220KV 315MVA TR#2 JEERAT	19-11-2014	07:00	19-11-2014	15:00		WBSETCL	Mnt. Work	
120	400KV Baripada-Kharagpur Line	20-11-2014	09:00 hrs	21-11-2014	17:00 hrs	ODB	ER-II	Jumping nut & Bolts Tightning and Replacement of punctured insulator	
121	SGTPP-400KV BAY i.r.o.FARAKKA	20-11-2014	07:00	20-11-2014	15:00		WBSETCL	Mnt. Work	
122	220kv Katapali- Budhipadar Ckt.I	20-11-2014	08:00	21-11-2014	16:00	ODB	OPTCL	Maintenance work	
123	220kv Joda - Jindal line	20-11-2014	08:00	20-11-2014	16:00	ODB	OPTCL	Maintenance work	DVC
124	400 KV RANCHI-MAITHAN (RB) - 1 WITH LINE REACTOR	21-11-2014	09:30	21-11-2014	17:30	ODB	ER-I	AMP WORK	MPL
125	400 KV RANCHI-MAITHAN (RB) - 2 WITH LINE REACTOR	22-11-2014	09:30	22-11-2014	17:30	ODB	ER-I	AMP WORK	MPL

126	400KV BKTTP-JRT	22-11-2014	06:00	23-11-2014	16:00	OCB	WBSETCL	Relay retrofitting	NLDC
127	400/220kV Mendhasal S/S	24-11-2014	08:00	24-11-2014	16:00	ODB	OPTCL	Maintenance work	
128	400KV BKTTP-ARMBG	24-11-2014	06:00	25-11-2014	16:00	OCB	WBSETCL	Relay retrofitting	
129	220kV Katapali- Budhipadar Ckt.II	24-11-2014	08:00	25-11-2014	16:00	ODB	OPTCL	Maintenance work	
130	132 KV S/C SAHARSHA-UDAKISHANGANJ (OF BSPTFL)	25-11-2014	08:00	26-11-2014	18:00	ODB	ER-I	FOR STRINGING OF 800 KV HVDC ISLAMPUR-SAHARSHS SECTION OF BISWANATH-CHARYALI-AGRA TL	BIHAR
131	400 KV JAMSHEDPUR - ROURKELA -2	25-11-2014	08:00	26-11-2014	18:00	ODB	ER-I	FOR LILO OF 400 KV JSR - RKL - I AT CHAIBASA	
132	400kv Bus Reactor-2 AT KAHALGAON	25-11-2014	09:30	29-11-2014	17:30	OCB	NTPC	Reactor Oil filtration, PM works & Testing.	
133	220kV Baripada-Balasore-I	26-11-2014	07:00	26-11-2014	16:00	ODB	OPTCL	Maintenance work	
134	JEERAT-400/220KV 315MVA TR#3	26-11-2014	07:00	26-11-2014	15:00		WBSETCL	Mnt. Work	
135	220kV Budhipadar- Korba (Raigarh) Ckt.-I	26-11-2014	08:00	27-11-2014	16:00	ODB	OPTCL	Maintenance work	NLDC
136	400/220KV 315MVA TR#1 JERAT	27-11-2014	07:00	27-11-2014	15:00		WBSETCL	Mnt. Work	
137	400KV Baripada-Keonjhar Line	27-11-2014	09:00 hrs	27-11-2014	17:00 hrs	ODB	ER-II	Jumping nut & Bolts Tightning and Replacement of punctured insulator	
138	220kV Tarkera- Rourkela - II	27-11-2014	08:00	27-11-2014	16:00	ODB	OPTCL	Maintenance work	
139	220 KV S/C RAMCHANDRAPUR - JODA LINE (JSEB)	28-11-2014	08:00	28-11-2014	18:00	ODB	ER-I	DIVERSION OF 220 KV S/C RAMCHANDRAPUR JODA LINE BY PROVIDING ERS (WHICH IS CROSSING CHAIBASA S/S SITE).	JHARKHAND/ OPTCL
140	KHARAGPUR-315MVA TR#1	29-11-2014	07:00	29-11-2014	15:00		WBSETCL	Mnt. Work	
141	400KV KHARAGPUR-BARIPADA	30-11-2014	07:00	30-11-2014	15:00		WBSETCL	Mnt. Work	WBSETCL
142	400KV Mendhasal-BARIPADA-1	03-12-2014	08:00 hrs	04-12-2014	18:00 hrs	ODB	ER-II	All Tension tower jumping nut & Bolts Tightning and Replacement of punctured insulator	OPTCL
143	400KV Mendhasal-BARIPADA-2	05-12-2014	08:00 hrs	06-12-2014	18:00 hrs	ODB	ER-II	All Tension tower jumping nut & Bolts Tightning and Replacement of punctured insulator	OPTCL
144	400KV Mendhasal-BARIPADA-1	07-01-2015	08:00 hrs	08-01-2015	18:00 hrs	ODB	ER-II	All Tension tower jumping nut & Bolts Tightning and Replacement of punctured insulator	OPTCL
145	400KV Mendhasal-BARIPADA-2	09-01-2015	08:00 hrs	10-01-2015	18:00 hrs	ODB	ER-II	All Tension tower jumping nut & Bolts Tightning and Replacement of punctured insulator	OPTCL

Annexure-C.2

Anticipated Power Supply Position for the month of
Nov-14

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
	i) NET MAX DEMAND	3000	1291
	ii) NET POWER AVAILABILITY- Own Source	590	54
	- Central Sector	1712	1046
	iii) SURPLUS(+)/DEFICIT(-)	-698	-191
2	JHARKHAND		
	i) NET MAX DEMAND	1100	700
	ii) NET POWER AVAILABILITY- Own Source	560	247
	- Central Sector	611	366
	iii) SURPLUS(+)/DEFICIT(-)	70	-87
3	DVC		
	i) NET MAX DEMAND (OWN)	2730	1640
	ii) NET POWER AVAILABILITY- Own Source	4720	3008
	- Central Sector	433	292
	Long term Bi-lateral (Export)	2069	1490
	iii) SURPLUS(+)/DEFICIT(-)	354	170
4	ODISHA		
	i) NET MAX DEMAND	3650	2247
	ii) NET POWER AVAILABILITY- Own Source	2290	1447
	- Central Sector	1041	622
	iii) SURPLUS(+)/DEFICIT(-)	-319	-177
5	WEST BENGAL		
5.1	WBSEDCL		
	i) NET MAX DEMAND (OWN)	4740	2234
	ii) CESC's DRAWAL	650	129
	iii) TOTAL WBSEDCL's DEMAND	5390	2363
	iv) NET POWER AVAILABILITY- Own Source	3675	1580
	- Import from DPL	110	54
	- Central Sector	1824	1162
	v) SURPLUS(+)/DEFICIT(-)	220	433
5.2	DPL		
	i) NET MAX DEMAND	290	205
	ii) NET POWER AVAILABILITY	400	259
	iii) SURPLUS(+)/DEFICIT(-)	110	54
5.3	CESC		
	i) NET MAX DEMAND	1700	739
	ii) NET POWER AVAILABILITY - OWN SOURCE	1050	581
	FROM WBSEDCL	650	129
	iii) TOTAL AVAILABILITY	1700	710
	iv) SURPLUS(+)/DEFICIT(-)	0	-29
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
	i) NET MAX DEMAND	6730	3178
	ii) NET POWER AVAILABILITY- Own Source	5125	2419
	- Central Sector	1824	1162
	iii) SURPLUS(+)/DEFICIT(-)	220	404
7	SIKKIM		
	i) NET MAX DEMAND	105	54
	ii) NET POWER AVAILABILITY- Own Source	16	5
	- Central Sector	114	60
	iii) SURPLUS(+)/DEFICIT(-)	25	10
8	EASTERN REGION At 1.03 AS DIVERSITY FACTOR		
	i) NET MAX DEMAND	16811	9110
	Long term Bi-lateral	2069	1490
	ii) NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	16473	9239
	iii) PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	-338	130