Eastern Regional Power Committee Kolkata-33

Salient Decisions taken in 112th OCC meeting held on 21.08.15

- 1. OCC agreed to restrict the generation relief of JITPL to their minimum technical limit (350 MW) during SPS operation for additional relief of 600 MW in case of tripping of Talcher-Kolar HVDC bipole(s).
- 2. OCC agreed to include 16 new locations in AMR project. OCC advised Powergrid to proceed for 3rd Phase of implementation of AMR project for addition of new locations.
- 3. OCC felt that with single unit (unit#5 of 250 MW), Bandel islanding scheme is difficult to survive. However, OCC referred the issue to PCC for further discussion.
- 4. OCC felt that 50 MVAR reactor for 11 km line is not required. OCC advised Powergrid to remove the line reactor connected in 400KV Durgapur-Bidhannagar line and keep it as a regional spare.

Eastern Regional Power Committee

Minutes of 112th OCC Meeting held on 21st August, 2015 at ERPC, Kolkata

List of participants is at Annexure-A.

Item no. A.1: Confirmation of minutes of 111th OCC meeting of ERPC held on 24.07.2015

The minutes were uploaded in ERPC website and circulated vide letter dated 06.08.15 to all the constituents. No comments were received till date.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 111th OCC Meeting.

PART B

Item no. B.1: Constraints in evacuation of JITPL power -- JITPL

JITPL vide letter dated 28-07-2015 informed that both the units of Derang, Angul, Odisha were declared CoD (unit#1 on 6th June, 2014 and unit#2 on 12th Feb, 2015) but to it NOC for 980 MW transaction only was issued against 1044 MW LTA.

JITPL cited that LILOs of 400kV Meramundali-Bolangir/Jeypore S/c line at Angul s/s and LILO of one line of 400kV Talcher-Meramundali D/c line at Angul S/s are causing constraint in evacuation.

JITPL further mentioned that as per the 17th standing committee meeting held on 25-05-2015, the above LILOs are to be removed.

Therefore in order to avoid the restriction on low cost generation evacuation early removal of these LILOs are requested.

Members may discuss.

Deliberation in the meeting

OCC decided to refer the issue of removal of LILOs of 400kV Meramundali-Bolangir/Jeypore S/c line at Angul s/s and LILO of one line of 400kV Talcher-Meramundali D/c line at Angul S/s to next Standing Committee meeting as it will be done by CTU.

JITPL informed that technical limit of their generator is 350 MW and it is difficult to provide the required generation relief (i.e. 200MW) when their unit generation is below 550 MW. JITPL requested for restriction of their generation relief to generator technical limit during SPS operation for additional relief of 600 MW in case of tripping of Talcher-Kolar HVDC bipole(s).

In line with the decision taken in respect of GMR for restricting the generation relief to technical minimum on special cases of SPS operation, OCC agreed to restrict the generation relief of JITPL to their minimum technical limit (350 MW).

GRIDCO informed that in the month of May & June, 2015 the schedule from JITPL to GRIDCO had been curtailed (from 100 MW to 50 MW) without any information to GRIDCO.

GRIDCO requested to review the reasons behind.

In 111th OCC, ERLDC informed that they will study the details as submitted by GRIDCO and revert back by next OCC.

ERLDC may update.

Deliberation in the meeting

ERLDC explained that JITPL should inform GRIDCO.

OCC advised GRIDCO and ERLDC to resolve the issue bilaterally.

Item no. B.3: Scheduling of BARH Stage-II power -- OPTCL

OPTCL vide letter dated 12.08.2015 informed that, usually GRIDCO is surrendering NTPC, BARH Stage-II power and ERLDC is scheduling the power to GRIDCO considering technical minimum. On 05.08.15 mismatch was observed due to some system error between OPTCL and ERLDC SCADA data which showed overdrawal by GRIDCO. Through the matter was clarified by SLDC, Odisha telephonically, ERLDC revised the BARH share suo motu from Block No. 77 to 85

OPTCL requested that care should be taken to avoid repeat occurrences of such suo motu scheduling by ERLDC in future.

OPTCL and ERLDC may discuss.

Deliberation in the meeting

ERLDC explained that during peak hours OPTCL was over drawing around 150-200 MW. Therefore after informing the SLDC, Odisha surrendered URS power of Barh STPS was allotted to GRIDCO. The GRIDCO overdrawal was significant and the same was confirmed with the SEM data also.

OPTCL informed that due to PT fuse failure at Trakera S/S erroneous data were in the system and it was showing under drawal of GRIDCO from the grid. Though, GRIDCO further informed, initiations were already made to bring the Hydro units but before that ERLDC allotted the Barh share.

OCC advised ERLDC and GRIDCO to coordinate properly for taking care of this type of issues.

Item no. B.4: Non-availability of URS power as per merit order-- WBSEDCL

WBSEDCL vide mail dated 08.08.2015 reported non availability of URS power from Talcher STPS, NTPC, in the event of contingency faced by WBSEDCL.

WBSEDCL does not get the desirable URS power, as per merit order, from Talcher STPS, NTPC, even there is schedulable URS power in the account of TSTPS.

WBSEDCL may explain.

WBSEDCL informed that the Regulation on ancillary services was already published which will be implemented within next three months. WBSEDCL requested NTPC to allot the power as per the merit order till the provisions of above regulation were started in practice.

Item no. B.5: Constraints in declaration of steady DC by NTPC Kahalgaon---NTPC

NTPC Kahalgaon vide letter dated 06.08.2015 informed that they are facing constraints in declaring steady DC due to widespread rain in ER. Because of receipt of wet coal from mines and resultant interruptions in the coal flow path, station generation varies without any prior warning and becomes almost unpredictable.

NTPC further informed that its Kahalgaon station is always keen to maximize generation, DC & Schedule and has ever been willing to utilize URS whenever requisitioned. However, in the current scenario of rain and wet coal, the station is hard pressed to revise DC many a times in the day depending on the coal situation.

In view of above, NTPC requested to consider downward DC revision due to wet coal problem as SOS from station during monsoon and may explore if schedule revision can be made effective at the earliest. NTPC assured to revise upwards whenever situation improves.

Members may discuss.

Deliberation in the meeting

ERLDC explained that time and again it is observed that NTPC resorted to reduce stations DC frequently and thereby adversely affecting the allocation on URS power from those stations to some constituents.

OCC advised NTPC to look into the matter. NTPC agreed to take care in future.

Item no. B.6: High voltage in DVC system--DVC

DVC vide mail dated 04.08.2015 informed that, DVC system voltage in 220/132kV level (230kV at 220kV side and 140kV at 132kV end) is high on continuous basis and requested for necessary action.

DVC may explain and members may discuss.

Deliberation in the meeting

ERLDC advised that the one circuit of under loaded line may be opened in case of high voltage and VAR absorption by generators may be explored.

ERLDC also advised DVC to change the ICT tap at distribution level.

DVC informed that there is huge variation in voltage at distribution level and changing tap at 220/132kV will not be fruitful.

OCC advised DVC to inform the particular areas where they were facing high voltages so that ERLDC can give specific advice to control the over voltage.

Item no. B.7: Furnishing data on Power Purchase Agreements (PPA)

You are aware that Central Electricity Authority has been collecting data from different sources on various aspects of the power sector, to disseminate the information to all the stakeholders of

the sector. As a part of the process, CEA decided to build a data base on Power Purchase Agreements (PPAs) which are required for assessing the installed generation capacity available in the states. Accordingly, a format was devised to collect the data from all the DISCOMs on a regular basis, for analysis and report on various PPA- related issues. The format is given at **Annexure-B.7**. This data would be used to make policy decisions for the overall development of the power sector and to bring out a quarterly publication for stake-holder benefit.

Therefore, constituents are requested to furnish the details of PPAs (long, medium and short term) from existing and proposed power plants as per the format to CEA by mail (email: rmrao@nic.in and rstomar@nic.in) with a copy to this office by mail (mserpc-power@nic.in)

111th OCC requested all the constituents to submit the requisite details of PPAs as per the format to CEA by mail as given above with a copy to ERPC.

It was informed that Bihar has already submitted the data.

Other constituents agreed to submit the details at the earliest.

Subsequently, CESC, DPL, GMR and Tala have submitted the requisite data.

Members may send the requisite information.

Deliberation in the meeting

It was informed that WBSEDCL has submitted the requisite data.

OCC advised DVC, Odisha and JUSNL to send the relevant information.

Item no. B.8: Commissioning of 400/220KV, 315MVA spare ICT of regional pool in place of failed 315MVA ICT-I at Biharsharif Substation.

400/220KV, 315MVA ICT-I of Biharsharif Substation was failed and completely burnt due to frequent severe fault in downstream system causing failure of Y&B phase bushing of IV Side (220 KV side) at 15:24 Hrs on 08.06.2015. The failed ICT was completely burnt and beyond repair.

In order to have early restoration of power-flow in Bihar, it is to inform that the spare 400/220KV, 315MVA ICT available as regional pool kept at Biharsharif Substation will be commissioned in place of failed 315MVA ICT-I at Biharsharif Substation.

In 111th OCC, Powergrid informed that the ICT was subjected to abnormal stress during its years of service because of exposing the same to clear downstream faults.

On enquiry, Powergrid informed that the ICT was completely burnt out and it may not be repairable, however, the details will be shared after completion of investigation.

OCC advised Powergrid to place the investigation report before OCC.

OCC advised constituents to share their views on proposal for replacement of the spare.

Powergrid may place the report and Members may discuss.

Deliberation in the meeting

Powergrid informed that they are replacing the failed 315 MVA 400/220kV ICT at Biharsharif with spare ICT of regional pool without any financial burden on constituents.

All constituents were requested to give their views on procurement of new spare 400/220 kV ICT for regional pool.

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

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

The 11 KV auxiliary power supply at 400/220KV Patna Substation has been fed through 11 KV Sampatchak-Gaurichak rural feeders. The quality & reliability of above aux. power supply is extremely poor. The outage is more that 35% with maximum daily outage of even 24 hours. Also per day tripping is more than 20.

The matter has been up repeatedly with SBPDCL in the past but no improvement has been noticed. In view of unreliable 11KV aux. Supply, M/s SBPDCL has been requested, several times, in the past for a new connection for 400/220KV Patna Substatiion with same contract demand as existing i.e.420 KVA, through a dedicated 11KV feeder/cable.

Therefore, Powergrid has proposed to provide 11KV dedicated feeder in order to improve the quality and reliability of 11KV aux. supply at 400/220KV Patna Substaion. Also, it is requested to improve the quality and reliability of existing feeder supply until a dedicated 11KV feeder is to be provided by M/s SBPDCL.

In 111th OCC, Powergrid was advised to sort out the issue in cooperation with Bihar.

Members may discuss.

Deliberation in the meeting

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

OCC advised BSPTCL & Powergrid to interact & settle the issue.

b) Auxiliary Supply of Rangpo 400/ 220/ 132KV Substation:

At present the 11KV feeder used for the auxiliary supply of Rangpo 400/ 220/132KV Substation is not reliable. There is frequent outage of the feeder. For reliable auxiliary supply a 11KV dedicated had been constructed from Namthang Substation of Sikkim Energy and Power Department on deposit basis. POWERGRID had already deposited the entire amount as per the demand note submitted by Energy and Power Department of Sikkim. The Namthang substation had already been commissioned. However the 11KV dedicated feeder has not been charged till date.

Rangpo Subtatiion is a very important substation and reliability of auxiliary power of Rangpo is very essential. In view of above, the charging of 11KV dedicated feeder to Rangpo Substation is required to be done at the earliest.

In 111th OCC, Sikkim informed that the 11 kV dedicated feeder will be charged within next 10 days.

Powergrid and Sikkim may update the status.

Deliberation in the meeting

The status could not be updated as Sikkim representatives were not present in the meeting. OCC advised Powergrid to pursue the issue with DoP, Sikkim.

Item no. B.10: In-sufficient clearance between R & Y Phase of 132 KV Kahalgaon (NTPC)-Lalmatia line.

NTPC vide mail dated 11.07.15 reported that similar (to 1st July, 2015's fault) phase to phase (R-Y) fault occurred on 11th July 2015 during stormy weather at 16:14 hrs in 132 KV Kahalgaon (NTPC)- Lalmatia line at 100 meters from NTPC Kahalgaon end. Distance numerical relay installed in said line recorded approx 12 KA fault current in R & Y phase. KhSTPS station LT auxiliaries were adversely affected during this incident due to excessive dip in system voltage. It may please be noted that similar fault in same phase at same distance are repeatedly occurring in recent past. This may lead to unit tripping in future due to tripping of Unit LT auxiliaries.

Further, NTPC placed the following findings/defects after checking at NTPC end & its nearby proximity regarding aforesaid incidents:-

- Between 132 KV Kahalgaon(NTPC)- Lalmatia line gantry to 1st tower of said line from NTPC Kahalgaon, It seems that line clearance between R & Y phase is not sufficient & it becomes very less during stormy weather resulting into heavy fault. Even sometimes, heavy sound/light was also observed during tripping. Specified location is inside NTPC premises but said line is property of JUSNL.
- 2. Some conductor string in Y phase of 132 KV Kahalgaon (NTPC) Lalmatia line at mentioned location found wrecked & open. Location is approx 100 meters from 132 KV Kahalgaon (NTPC) Lalmatia bay.

On 11.07.15 representative of BSPTCL Kahalgaon was called to visit the site after tripping & their team has provided short-term solution by winding the open conductor strings & made ready to charge the line but insufficient clearance between R & Y phase is still a serious threat for NTPC, Kahalgaon.

Therefore, it is requested to advise concerned utility to take up this issue on emergent priority basis for permanent solution i.e. providing sufficient clearance between R & Y Phase so that such heavy fault can be avoided in future.

In 111th OCC, JUSNL informed that though the line is owned by JUSNL, the O&M of the line from tower location no 1 to 49 is under the jurisdiction of BSPTCL and from location no 49 to rest up to Lalmatia is looked after by JUSNL. Since the defects are at Kahalgaon end the same has to be rectified by BSPTCL.

However, BSPTCL informed that they need specific direction from JUSNL to carry out the above job.

OCC advised BSPTCL & JUSNL to cooperate and carry out re-tensioning of the line near to KhSTPS so that the clearance can be achieved between R and Y phase for safe operation of line.

JUSNL/ NTPC/ BSPTCL may update.

Deliberation in the meeting

BSPTCL informed that the shutdown is allowed today (i.e. 21.08.15) and the work is in progress. It is expected to be completed by today.

Item no. B.11: Appointment of Consultant to conduct the study/ Analysis to ensure Secure and Reliable Operation of National Grid

MoP vide order dated 16.07.2014 constituted a Grid Study Committee under the chairmanship of Member (GO&D), CEA to facilitate the study/analysis by consultants to ensure secure and reliable operation of National Grid. The process of appointment of two consultants is under way.

In 30th TCC meeting, in line with the decision of 1st meeting of the Grid Study Committee held in CEA on 22.05.2015 under the Chairmanship of Member (GO&D), CEA, it was decided that Sh. M.R. Mohanty, Sr. GM, OPTCL, will act as the principal nodal officer for Eastern Region.

Further, 30th TCC/ERPC advised all utilities viz. TRANSCO (STU), GENCOs, DISCOMs & SLDC of States to nominate two nodal officers at the level of Chief Engineer/General Manager from each constituent under the principal nodal officer and communicate the same to secretariat within a week.

Sikkim, WBSEDCL and SSL are yet to nominate the Nodal officer.

Respective constituent members may nominate the Nodal officer.

Deliberation in the meeting

Members noted.

Item no. B.12: Meeting/ Interaction with Consultants for Task-I: To study the status of implementation of recommendations of enquiry committee by the Consultant

Second Grid Study Committee (GSC) meeting was held at NLDC, New Delhi on 16th July, 2015 to finalize the modalities for implementation of the review of protection audit by the joint venture of M/s Tractabel, Romania, M/s Tractabel, India and M/s Lehmeyer International Private Limited, India. In the meeting, it was decided that M/s Tractabel the Lead Partner would be mainly responsible for Task-I i.e. to study the status of implementation of recommendations of Enquiry Committee. The Questionnaire for Task-I, the latest status of implementation of Enquiry Committee recommendations pertaining to Eastern Region are circulated to all the nodal officers vide letter dated 07-08-2015 and also available in ERPC website.

In the meeting it was also decided that for Task-I the consultant will interact with each RPC and its constituents for seven days. Accordingly, the tentative schedule was prepared and the committee decided to visit ERPC from 31st August, 2015 to 4th September, 2015.

In view of above, respective nodal officers update latest status of implementation of Enquiry Committee recommendations under your control area and submit to ERPC at the earliest. The tentative schedule for interaction with constituents is as given below:

- 1) 31.08.2015- OPTCL, GRIDCO, OPGC, OHPC, CESU, WESCO, IPPs of Odisha
- 2) 01.09.2015- WBSETCL, WBSEDCL, WBPDCL, CESC, DPL, Sikkim
- 3) 02.09.2015- DVC, BSPTCL, SBPDCL, JUSNL, JBVNL, JUUNL, TVNL
- 4) 03.09.2015- NTPC, NHPC, Powergrid/CTU, other IPPs
- 5) 04.09.2015- ERLDC, ERPC

It may be noted that the meeting of the consultant with various entities has started in NRPC as per schedule.

During the meeting, the consultant has observed that the entities need to submit the specific, quantified status with proper supporting document. Broad statements may not be treated as a proper input by the consultant.

Based on the discussions held during the meetings in NRPC an indicative list of supporting documents has been circulated to nodal officers vide letter dated 17-08-2015 and also made available at ERPC website.

Nodal officers are requested to attend the interaction meeting for fruitful discussion with the consultant with the requisite information along with support documents as circulated and available in ERPC website.

Members may comply.

Deliberation in the meeting

Members noted for compliance.

Item no. B.13: On-site Protection Audit by the Consultant to conduct the study/ Analysis to ensure Secure and Reliable Operation of National Grid – Submission of Check List.

Second Grid Study Committee (GSC) meeting was held at NLDC, New Delhi on 16th July, 2015 to finalize the modalities for implementation of the review of protection audit by the joint venture of M/s Tractabel, Romania, M/s Tractabel, India and M/s Lehmeyer International Private Limited, India. In the meeting, it was decided that M/s Tractabel will carry out the on site Protection audit of the 15 shortlisted substations of the Eastern Region. List of substations is enclosed at **Annexure-B13**.

The consultant also submitted the format of checklist and a format of bus bar and breaker failure protection details to be filled up by the respective constituents. The formats are already circulated to respective nodal officers vide letter dated 31-07-2015 and the softcopy of the format is also available in ERPC website **www.erpc.gov.in.**

Nodal officers are requested to fill the audit checklist of your respective substation as per the format available in ERPC website and submit to GM, NLDC and CE(GO), CEA with a copy to ERPC Secretariat by 17th August, 2015 so that M/s Tractabel can start the proceedings for on site protection audit of Eastern Region.

Members may note.

Deliberation in the meeting

OCC advised all the constituents to send the requisite information at the earliest.

Item no. B.14: Identification of nodal officers on signing of MOU between ESSO-IMD and POSOCO -- ERLDC

A MOU was signed on 18th May, 2015 between Earth System Science Organiztion-Indian Meteorological Deptt(ESSO-IMD) for synergy in the management of Indian Power System and weather related impact. Subsequent to signing of the MOU the following course of action was decided:

- a) Identification of two nodal officers from both sides at each level viz. National/Regional/State: Accordingly the names of two nodal officers for each SLDC/CLD alongwith contact numbers and e_mail addresses may be provided.
- b) List of officers to avail SMS facility from IMD for extreme weather conditions: Names and contact details may be provided.
- c) Identification of stations for which weather data is required:

A list of stations is to be provided along-with the required weather parameters. The Station names are to be supplemented with the nearby city name, district name and State name. Accordingly, ERLDC has already prepared a tentative list and circulated.

SLDCs/CLD may kindly furnish the above required data and confirm or intimate any discrepancies regarding the list.

In 110th OCC, house was informed that the requisite information is yet to be received from the constituents except Odisha. OCC advised all constituents to furnish the relevant information.

Subsequently, WBSETCL has submitted the list of officers for WBSLDC to avail SMS facility from IMD for extreme weather conditions.

In 111th OCC, it was informed that all the constituents have submitted their nodal officers except Sikkim and JUSNL.

JUSNL and Sikkim agreed to submit the nodal officer's name within a week.

Members may update.

Deliberation in the meeting

It was informed that JUSNL has submitted the nomination.

Sikkim representative was not available in the meeting.

Item no. B.15: Synchronisation of Unit #1 (350 MW) of Ind Barath Energy (UTKAL) Ltd. (IBEUL) with the Grid

In 111th OCC, secretariat was advised to convene a special meeting to resolve the issue if situation demands with all concerned parties.

On advice, a special meeting was held at ERPC Secretariat on 10th Aug, 2015 the minutes of the meeting is enclosed at **Annexure-15**.

Members may note.

Deliberation in the meeting

Members noted.

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

In the special meeting, Ind-Bharath informed that:

- 120 towers foundations out of total 125 towers have been completed and 115 have been erected; 6 towers are under progress.
- Stringing work of 31 km out of 40 km line is completed.
- The bay work at 400 kV Jharsuguda (Kenapalli) S/s is in advanced stage, being executed under the consultancy of Powergrid, will be completed ahead of line.
- Line is expected to commissioned by November, 2015.

Ind-Bharath may update the status.

Deliberation in the meeting

It was informed that Ind-Bharat vide mail dated 21-08-2015 communicated that the following action plan was decided with the advice of PGCIL experts:

- (i) Micom Relay E/F Protection shall be enabled with i > 4 which will be used for Stub Protection and the settings to be done time coordination with SNG.
- (ii) The PSC Logic shall be modified for correct sending of signal by Micom Relay.

- (iii) Opening of breaker 3 poles on 1Ph Trip command of the relay shall be checked and rectified at IBEUL end.
- (iv) DT signal being sent to SNG on opening of single Bkr instead of both Line and Tie breakers shall be checked and rectified.
- (v) Breaker status and Carrier status shall be programmed in Micom DR.
- (vi) Micom over-voltage stage-2 did not operate on 08.08.15, shall be rectified.
- (vii) Tower footing resistance and tower Shield wire healthiness shall be checked from IBEUL to LILO point.
- (viii) Setting of distance protection of IBEUL to JSG Zone-2 shall be changed from 150% to 120% as per advice of PGCIL Corporate expert.

All the above jobs have been taken up and expected to be completed by 21-08-2015.

Ind-Bharat has requested for shut down of IBEUL LILO to attend outer jumper of Tower no 27 at LILO point 760 & 761 on 21-08-2015.

Ind-Bharat informed that they are expecting to submit block wise generation plan soon after rectifying the above and solicit a favorable schedule from ERLDC seeking ERPC's permission for injection of power thereafter.

Item no. B.16: Status of PLCC system installed in Eastern Region

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

111th OCC advised Powergrid to place their requirement along with cost estimate as per the Powergrid norms.

Powergrid may update the status.

Deliberation in the meeting

Powergrid informed that the details will be submitted by next OCC.

Item no. B.17: Future requirement of Special Energy Meters and DCDs --- Powergrid

30th TCC approved and recommended to ERPC for approval of procurement of SEM meters as per list finalized in 109th OCC.

ERPC concurred the proposal.

In 110th OCC, Powergrid informed that the procurement process will be initiated by next month.

Subsequently, ERLDC intimated that total 104 locations are required new DCD/Laptops and they are in process of procuring 110 DCD / Laptops for the Eastern Region.

In 111th OCC, members recommended for procurement of 110 Laptops with special interface for downloading the SEM data.

ERLDC/Powergrid may update.

Deliberation in the meeting

ERLDC informed that the proposal for procurement of 965 SEMs and 110 laptops was initiated by Powergrid and the Technical Specification (TS) has been forwarded by Powergrid for vetting of the same by ERLDC.

Powergrid informed that the TS has been prepared by Powergrid and ERLDC should vet it for finalization.

ERLDC informed that these SEMs should be of 0.01 Hz step.

a) In 109th OCC, OPTCL requested for replacement of seven nos. of existing DCDs.

OCC advised Powergrid to do the needful.

Powergrid and OPTCL may update.

Deliberation in the meeting

Powergrid informed that DCDs will be handed over to OPTCL after repair.

- **b)** MPL vide mail dated 15.07.15 informed that:
- ➤ Three nos of following SEM's are not responding through DCU since May, 2015:
 - a) GT-2: Serial no. NP-7496-A
 - b) RMRBL-1 (Main) : Serial no. NP-7854-A
 - c) RMRBL-2 (Main) : Serial no. NP-7382-A
- DCD is not working properly, it needs replacement. It has been communicated to PGCIL, Maithon.
- > OPGW cable work is completed, but its panel erection and commissioning is pending.

In 111th OCC, Powergrid was advised to check the SEMs and to replace it if needed.

Powergrid, ER-I informed that 1 DCD can be given to MPL.

OCC advised MPL to collect the DCD from Powergrid.

MPL/ Powergrid may update.

Deliberation in the meeting

Powergrid informed that above listed SEMs at MPL will be replaced today.

Item no. B.18: Inclusion of New Locations and Meters in AMR Project of ER--ERLDC

The work for implementation of Automatic Meter Reading for 97 locations in Eastern Region has been awarded to TCS by POWERGRID on 06.11.2012 for ` 226.03 Lakhs and the scheduled completion of the project were six (6) months from the date of award.

Further ERLDC requested POWERGRID, ER – II to incorporate 25 locations in the 2nd phase of AMR implementation at the end of 2014.

Meanwhile due to addition of new substations/generating stations/transmission lines in Eastern Region, 16 new locations have been added after 2nd phase of implementation of AMR project. These 16 new locations are required to be added under AMR project as 3rd phase of implementation.

ERLDC may place the details and Members may approve.

OCC agreed to include 16 new locations in AMR project.

Powergrid informed that AMRs have been installed at 97 locations in 1st phase and in 2nd phase 25 locations have been included as deviation. But, further new 16 locations cannot be accommodated in the existing order as the scope of further deviation (i.e. addition of new location) is not possible. So, a fresh order needs to be placed for inclusion of new locations in AMR project.

OCC advised Powergrid to proceed for 3rd Phase of implementation of AMR project for addition of new locations.

On query, ERLDC updated that AMR have been implemented in 122 locations which covers 647 SEMs out of which 60 % are reporting. For full implementation of the AMR project at least 85-90% data should report to ERLDC.

Powergrid informed that some work is incomplete at the constituent's site and a Nodal Officers from each constituent is required to complete the left out works.

OCC advised Powergrid to coordinate with SLDCs of the State and complete the work at the earliest.

Item no. B.19: Status of UFRs healthiness installed in Eastern Region

Certification for the month of July, 2015 is received from DVC, WBSETCL, CESC, OPTCL and JUSNL only.

Members may update.

Deliberation in the meeting

Bihar has submitted the healthiness certificate. So, healthiness certificate of UFRs from all the respective constituents have been received for the month of July, 2015 which are enclosed at Annexure-B.19.

Item no. B.20: Healthiness of SPS existing in Eastern Region

In 107th OCC, all constituents agreed to check the SPS system under their control area and submit the healthiness certificate on monthly basis.

110th OCC advised all the concerned utilities to submit formal healthiness certificate for their respective parts in SPS.

CESC submitted the healthiness certificate of their SPS.

Powergrid Odisha & ER-II, NTPC (TSTPS), SSL, GMR, JITPL & Chuzachen may submit the healthiness certificate for July, 2015.

Deliberation in the meeting

Communication received from GMR. SSL and Chuzachen on healthiness of SPS.

OCC advised Powergrid-Odisha, ER-II, NTPC (TSTPS) and JITPL to send the healthiness certificate of SPS on monthly basis.

Item no. B.21: Handing over of O & M of 220 kV Farakka -Lalmatia transmission system

30th ERPC advised JUSNL to place a roadmap to ensure proper O&M of Farakka- Lalmatia Transmission system in line with the decision taken in the special meeting of 24.03.2015 within a week to ERPC.

In 111th OCC, JUSNL informed that they are seeking legal view from their legal section for filing the petition before JSERC.

JUSNL may update.

Deliberation in the meeting

JUSNL informed that they had requested Bihar to provide the supporting documents related to this line. NTPC agreed to carry out the O&M of the above line till settlement of the issue.

Item no. B.22: Installation of polymer insulators on New Transmission lines

In the 30th ERPC Meeting held on 20.06.2015, Powergrid representative delivered a brief presentation highlighting the benefits of Polymer insulators vis-à-vis porcelain/anti-fog disc type insulators mainly on account of high number of trippings of transmission lines due to flashover of insulators.

Powergrid proposed the scheme for new transmission lines as well as the existing ones and at the same time assured that there would be no extra financial burden on the constituents for replacement of the insulators.

Powergrid was advised to submit a detailed roadmap for implementation of this scheme along with other requisite details.

In 110th OCC, Powergrid informed that procurement action has been initiated and within two three months it is expected to be completed. It was further informed that as advised by 30th ERPC the roadmap for replacement will be placed on ascertaining the exact position of availability of insulators.

OCC advised Powergrid to place the roadmap and tentative shutdown plan in next OCC meeting.

In 111th OCC, Powergrid informed that the order had been placed for polymer insulator with delivery schedule of four (4) months. The details will be placed shortly.

Powergrid may update.

Deliberation in the meeting

OCC advised Powergrid to place through official communication a roadmap and tentative shutdown plan for replacement of insulators.

Item no. B.23: Status of Islanding Schemes of Eastern Region

B.23.1: Status of commissioned Islanding Schemes in Eastern Region

At present, the following islanding schemes are in service:

- 1. CESC as a whole Islanding Scheme, CESC
- 2. BkTPS Islanding Scheme, WBPDCL
- 2. Tata Power Islanding Scheme, Haldia

3. Chandrapura TPS Islanding Scheme, DVC

Members may note.

Deliberation in the meeting

The healthiness certificate for Islanding Scheme was received from CESC, BkTPS and Tata Power which were enclosed at Annexure- B.23.1.

OCC advised DVC to submit the healthiness certificate for CTPS islanding scheme.

B.23.2: FSTPS Islanding Scheme, NTPC

In 30th TCC meeting, NTPC informed that all panels related to the islanding scheme have been commissioned and their part is ready for implementation.

In 110th OCC, JUSNL informed that the payment was cleared on 25.06.2015.

Powergrid informed that the payment has been received from JUSNL and JUSNL part will be implemented tentatively within 6 months.

In 111th OCC, Powergrid informed that the work has been awarded.

Powergrid/ JUSNL may update the status.

Deliberation in the meeting

Powergrid informed that order has been placed and the work will be completed within 6 months.

B.23.3: Bandel Islanding Scheme, WBPDCL

In 23rd TCC technical feasibilities of new Islanding schemes on Bakreswar and Bandel TPS of WBPDCL were placed and approved.

Thereafter, it was also decided that implementation of Bandel Islanding scheme will commence after Islanding Schemes for Bakreswar TPS will be in place.

Since, BkTPS islanding scheme is already in operation implementation of Bandel Islanding Scheme could be taken up.

In 30th TCC meeting, WBPDCL informed that four numbers of old units (each of 60 MW) at Bandel TPS required to be renovated for implementation of islanding scheme. Unit#5 of Bandel TPS is having capacity of HP, LP bypass of 30% and it is under renovation. However, further detail deliberation is required for implementation of the scheme.

TCC advised secretariat to discuss the technical details of the scheme again in the lower forum of ERPC.

In 110th OCC, WBPDCL informed that their discussions with SLDC, WBSETCL are going on and details will be placed in next OCC meeting.

In 111th OCC, WBSLDC informed that a separate meeting is scheduled to be convened by them for detail discussion for Bandel Islanding scheme. The outcome of the meeting will be placed before next OCC.

WBPDCL may place their issues. Members may discuss.

WBPDCL delivered a presentation in the meeting. Presentation is enclosed at Annexure-B.23.

After detailed deliberation, OCC felt that with single unit (unit#5 of 250 MW), the islanding scheme is difficult to survive. However, OCC referred the issue to PCC for further discussion.

Item no. B.24: Concerned members may update the latest status.

B.24.1. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In 111th OCC, Powergrid informed that during the meeting they have given some formats which needs to be filled by SSL before finalization of targets.

SSL informed that they will submit the formats within 3-4 days.

Sterlite till date did not submit the filled up formats.

Powergrid/Sterlite may update.

Deliberation in the meeting

Powergrid informed that Sterlite has submitted the filled formats, however the details planning like tentative dates for supply etc. was not mentioned which is given at **Annexure-B.24.1**.

Sterlite agreed to submit it with complete details within a week.

OCC advised Sterlite to give the progress report on monthly basis to ERPC Secretariat.

B.24.2. Status of construction of Chuzachen bay at Rangpo S/s.

In 30th TCC meeting, Sikkim informed that MOU has been signed with Powergrid on 24th April, 2015 and the advance payment will be released by next week.

Powergrid informed that they will place the order after receipt of advance payment.

In 110th OCC, Sikkim informed that payment has been approved by Government of Sikkim and the advance payment will be made to Powergrid by 15th July, 2015.

In 111th OCC, Sikkim informed that the payment will be released by end of July, 2015.

Sikkim may update.

Deliberation in the meeting

Sikkim representative was not available in the meeting.

B.24.3. Non availability of important bays at FSTPP end

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

In 110th OCC, NTPC informed that shutdown requisition has been placed.

In 111th OCC, NTPC informed that the scheduled Bus shutdown was not availed by them because of heavy rain on the day. They will complete the work within a month.

NTPC may update.

Deliberation in the meeting

NTPC informed that the work will be completed by September, 2015.

B.24.4. Non-availability of Tie bay of 400kV Sagardighi-Behrampore-II

In 109th OCC, WBPDCL informed that all the bay equipments are available and the tie bay will be commissioned by end of June, 2015.

In 110th OCC, WBPDCL informed that the tie bay will be commissioned by end of July, 2015.

In 111th OCC, WBPDCL informed that they have got the relay settings and waiting for consultants. The tie-bay will be commissioned by August, 2015.

WBPDCL may update.

Deliberation in the meeting

WBPDCL informed that relay settings are yet to be received from consultant.

B.24.5. 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s

PGCIL has already commissioned the 2x315MVA 400/220kV Bolangir S/s by LILOing of 400kV Meramandali-Jeypore S/C line and 400/220 kV Keonjhar S/s with an objective of supplying power from ER grid to its adjoining areas in Odisha.

In 111th OCC, OPTCL updated the completion schedule of inter-connecting system as follows:

Sl. No.	Name of the transmission line	Completion schedule				
1.	2x315MVA 400/220kV Bolangir S/s					
a.	LILO of one circuit of Sadeipalli-Kesinga220 kV	5 out of 14				
	D/C line at Bolangir S/S	completed. Dec,				
		2015 (Severe				
		ROW problem)				
b.	LILO of one circuit of Katapalli-Sadeipalli220 kV	One tower left.				
	D/C line at Bolangir S/S	End of August,				
		2015				
2.	400/220 kV Keonjhar S/S					
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	Yet to be awarded				
b.	Keonjhar (PG)-Turumunga (OPTCL) 220 kV D/C	Yet to be awarded				
	line					
3.	400/220kV Pandiabil Grid S/s					
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C	It will take 1 year				
	line	for completion.				
b.	LILO of one circuit of Atri-Puri (Samangara) 220	Charged on				
	kV D/C line at Pandiabil (PG)	15.07.2015.				

OPTCL may update.

OPTCL updated that forest clearance for one tower of LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S is pending and the work will be completed by October, 2015.

B.24.6. 220 kV inter-connecting lines of BSPTCL with 2x200 MVA, 400/132 kV substations at Lakhisarai & Banka

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

In 111th OCC, BSPTCL updated the completion schedule of inter-connecting system as follows:

SI. No.	Name of the transmission line	Completion schedule				
1.	The 2x200 MVA, 400/132 kV Lakhisarai sub-statio	n				
a.	132 kV Lakhisarai (PG)-Lakhisarai (BSPTCL) D/C	End of July, 2015				
	line					
b.	132 kV Lakhisarai-Jamui (BSPTCL) D/C line End of July, 2015					
2.	2x200 MVA, 400/132 kV Banka sub-station					
a.	LILO of 1 st circuit of Banka (BSPTCL)-Sabour Charged.					
	(BSPTCL) 132 kV D/C line at Banka (PG)					
b.	LILO of 2 nd circuit of Banka (BSPTCL)-Sabour Mid Aug, 2015					
	(BSPTCL) 132 kV D/C line at Banka (PG)					
C.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-I Completed					
d.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-II	Completed				

BSPTCL may update.

Deliberation in the meeting

BSPTCL updated the latest status as follows:

SI. No.	Name of the transmission line	Completion schedule					
1.	The 2x200 MVA, 400/132 kV Lakhisarai sub-statio	The 2x200 MVA, 400/132 kV Lakhisarai sub-station					
a.	132 kV Lakhisarai (PG)-Lakhisarai (BSPTCL) D/C Charged						
	line						
b.	132 kV Lakhisarai-Jamui (BSPTCL) D/C line	End of August, 2015					
2.	2x200 MVA, 400/132 kV Banka sub-station						
a.	LILO of 1 st circuit of Banka (BSPTCL)-Sabour Charged.						
	(BSPTCL) 132 kV D/C line at Banka (PG)						
b.	LILO of 2 nd circuit of Banka (BSPTCL)-Sabour Sep, 2015 (BSPTCL) 132 kV D/C line at Banka (PG)						
C.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-I Completed						
d.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-II	Completed					

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

Item no. B.25: Third Party Protection Audit

1. Status of 1st Third Party Protection Audit:

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

Name of Constituents	Total Observations	Complied	% of Compliance
Powergrid	54	37	68.52
NTPC	16	12	75.00
NHPC	1	1	100.00
DVC	40	26	65.00
WB	68	16	23.53
Odisha	59	27	45.76
JUSNL	34	15	44.12
BSPTCL	16	4	25.00
IPP (GMR, Sterlite and MPL)	5	5	100.00

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

Members may comply.

Deliberation in the meeting

Odisha and Bihar have submitted the compliance status.

2. Schedule for 2nd Third Party Protection Audit:

The latest status of audit is as follows:

1)	Jeerat (WBSETCL)	Completed on 15 th July 2015
2)	Subashgram (PG)	Completed on 16 th July 2015
3)	Kolaghat TPS (WBPDCL)-	Completed on 7 th August 2015
4)	Kharagpur (WBSETCL) 400/220kV -	Completed on 7 th August 2015
5)	Bidhannagar (WBSETCL) 400 &220kV	•

- 6) Durgapur (PG) 400kV S/s
- 7) DSTPS(DVC) 400/220kV
- 8) Mejia (DVC) TPS 400/220kV

Members may decide the schedule for September, 2015.

Deliberation in the meeting

OCC decided to carry out the third party protection audit of following substations from 31st August, 2015:

- 1) Bidhannagar (WBSETCL) 400 &220kV
- 2) Durgapur (PG) 400kV S/s
- 3) DSTPS(DVC) 400/220kV
- 4) Mejia (DVC) TPS 400/220kV

Item no. B.26: Handing over of 400 kV LILO of Farakka-Subhasgram at SgTPP & 400 kV D/C SgTPP- Parulia line – WBPDCL

During deliberation in 30th TCC held on 19.06.15, Powergrid informed that

1. LILO portion will be maintained as per the agreement with WBPDCL.

2. Regarding 400kV Sg TPP-Parulia D/C line, the AMC contract will be extended up to December, 2015 and in the meantime WBPDCL has to plan for alternate arrangement for O&M of this line.

But TCC felt that since 400kV Sg TPP-Parulia D/C line is important element in view of power export to Bangladesh, the line should be maintained by CTU. TCC advised Powergrid to continue the O&M of this line as per the existing commercial arrangement till alternative arrangements are formalised.

Powergrid agreed to extend the maintenance contract for SgTPP-Parulia by 400KV D/C line by another one year.

Further, TCC decided to place the issue again in next standing committee meeting of ER along with the issue of strengthening of transmission network for power export to Bangladesh. ERPC concurred.

WBPDCL vide mail dated 10.07.15 intimated that Powergrid was requested to submit the draft Agreement for the AMC of the 400 kV SgTPP- Parulia D/C line and 400 kV LILO lines of the Farakka-Subhasgram line for a period of one year from 1/7/15 as per advice of the 30th TCC meeting held on 19/6/15 at Shimla. It was also pointed out that since the last AMC was already expired on 30/6/15, the matter may be put up as early possible.

In 111th OCC, Powergrid informed that internal approval for said agreement has been taken and the same will be forwarded to WBPDCL shortly.

Powergrid/WBPDCL may update.

Deliberation in the meeting

Powergrid informed that the agreement will be forwarded to WBPDCL within 7 days.

Item no. B.27: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.

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

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

Members may note and comply.

Deliberation in the meeting

Members noted.

Item no. B.28: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.

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

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

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

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

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

Members may note and update the status.

Deliberation in the meeting

Members noted.

Item no. B.29: Energy Generation data management from Renewable Energy Sources

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

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

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

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

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

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

SLDCs may note and comply.

Deliberation in the meeting

Members noted.

Item no. B.30: Data of Peak Demand

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

The above methodology has been reviewed and it has been decided with the approval of Chairperson, CEA that Peak demand Met and Peak Demand in the country should be based on hourly all India demand data. The matter was taken up with POSOCO for getting the hourly data of peak demand met for each month in respect of all the regions in the country in the first week of

following month and they have assured to furnish the same. To calculate the demand, data of hourly scheduled and unscheduled power-cuts / load shedding is also required, which is not available with POSOCO.

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

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

In 108th OCC, only DVC submitted the data. OCC advised all constituents to submit the data on first week of every month. All constituents agreed.

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

DVC, BSPTCL, WBSETCL, CESC and OPTCL have submitted the data for the month of July, 2015.

JUSNL and Sikkim may submit the data on regular basis.

Deliberation in the meeting

Members noted.

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

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

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

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

In 110th OCC, ERLDC informed that there was a generation loss of 1100MW at 19:25hrs on 16th June, 2015 and subsequent response of most of the generators were not satisfactory. FRC calculation for Eastern Region was circulated.

OCC advised all the generators to go through and place the response for this event in next OCC meeting.

All generators agreed.

In 111th OCC, ERLDC gave presentation on FRC response for Talcher- Kolar HVDC tripping at 13:16 Hrs on 26.06.15 and generation loss of 1800MW due to Phagi tripping at 16:26 hrs on 10.07.15. It was informed that subsequent responses of most of the generators were not satisfactory.

OCC advised all the generators to go through and submit the response for this event to ERLDC for FRC response.

MPL has submitted their generators response to ERPC and ERLDC vide mail dated 08-08-2015.

Members may update.

Deliberation in the meeting

ERLDC informed that they received FRC response details from CESC.

OCC advised all other generators to send the FRC response to ERLDC.

ERLDC informed that there was another incidence of tripping of 1000MW wind generation in Northern Region on 19.08.15.

ERLDC requested all the constituents to send the generator response.

Item no. B.32: Pollution mapping for Eastern Region

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

Utility	Scope	Installed Locations	Number of locations where 1 st set of Measurements Completed	Remarks
JUSNL	67	27	0	From 5.6.15, 5 persons entrusted. Sample collection done, measurement yet to be done.
BSPTCL	59	52	5	Will be started from next month.
WBSETCL	73	70	43	Work is in progress.
OPTCL	164	102	87	Work is in progress.
Sikkim	12	9	6	Work is in progress.
Powergrid	40	40	16	Work is in progress.

In 110th OCC, Powergrid informed that the 1st set of measurements should have been completed by 30th June, 2015 however very few measurements were received from the constituents.

OCC advised all constituents to complete the 1st set of measurements by 15th July, 2015 and send to Powergrid.

All constituents agreed.

Powergrid may update.

WBSETCL informed some measurement kits are not working properly. The Nodal Officer of WBSETCL has been changed and the same will be communicated.

OCC advised WBSETCL to communicate the issue to Powergrid.

OCC advised all constituents to complete the 1st set of measurements and send to Powergrid/CPRI.

Item no. B.33: Mock Black start exercises in Eastern Region - ERLDC

i) The status of black start exercises

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

S1	Name of	Schedule	Tentative	Schedule	Tentative
no	Hydro		Date		Date
	Station				
		Test-I			
1	U.Kolab	Last week of	Done on	Last Week of	
		May, 2015	16/07/15	January 2016	
2	Maithon	1 st week of June	Sep,	1st Week of	
		2015	2015	October 2015	
3	Rengali	2 nd week of June	Sep,	Last week of	
		2015	2015	November 2015	
4	U. Indravati	3 rd week of June	Done on	2 nd week of	
		2015	16/07/15	February 2016	
5	Subarnarekha	2 nd week of		1 st week of	
		October 2015		January 2016	
6	Balimela	1 st week of		1 st week of	
		November 2015		March 2016	
7	Teesta-V	2 nd week of		Last week of	
		November 2015		February 2016	
8	Chuzachen	1 st week of May,	Nov,	2 nd week of	
		2015	2015	January, 2016	
9	Sikidri	Done on 9 th June,	2015	,	
10	Burla		Jan,		
			2016		

ERLDC may update.

Deliberation in the meeting

Members updated the dates as given in above table.

ii) Testing of DG sets meant for Black start

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

Constituents may kindly ensure compliance.

Members noted.

Item no. B.34: Restoration of SCADA data

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

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

Updated status is enclosed at Annexure-B.34.

CTU/ERLDC may update.

Deliberation in the meeting

CTU/ERLDC updated the latest status enclosed at Annexure-B.34.

Item no. B.35: TTC calculations by States--ERLDC

As per CERC regulation, states are supposed to declare their respective TTCs on a monthly basis. ERLDC had interacted with WBSETCL and DVC and their import TTC corresponding to summer 2015 had been jointly estimated, in the course of explaining them the procedure. But they are not yet declaring these figures officially.

On the other hand BSPTCL, JUSNL, OPTCL have not even responded to this issue.

In 13th FOLD meeting all SLDCs are agreed to take up the process of estimating import and export ATC/TCC on regular basis. Further, ERLDC requested SLDC to compute the same vide letter dated 3rd Feb, 2015 and 10th August, 2015. The letter is enclosed at **Annexure-B.35**.

SLDCs are requested to compute and publish ATC and TTC on monthly basis in their website clearly stating the assumptions and limiting constraints. A sample format may be found at Uttar Pradesh Power Transmission Corporation Limited website at following link: http://upptcl.og/pdfs/ttc_06042015.pdf.

Members may note.

Deliberation in the meeting

ERLDC informed that OPTCL has submitted the ATC and TTC calculations.

OCC advised all other constituents to compute the ATC and TTC on monthly basis and publish in their respective websites.

OCC also advised all the constituents to consult ERLDC, if they require any guidance for computation.

Item no. B.36: Advance intimation regarding charging of new elements for incorporation in SCADA database--ERLDC

Information of new elements to be synchronized in the Eastern Regional Grid is not being furnished in advance. It is requested that the same must be provided at least one month in advance so that relevant database may be developed in time before first time Charging / Synchronization of the new elements. The matter for providing the synchronisation of new elements was discussed in 15th SCADA O&M meeting held on 28th November 2013, wherein all members agreed to furnish details about synchronization of new elements one month in advance (by 25th of every month for subsequent month) so that necessary data base incorporation could be done at respective control center in time. Presently, ERLDC is receiving multiple information 2 – 3 days in advance and it is very difficult to prepare the database in such a short time interval.

Members may note and comply.

Deliberation in the meeting

ERLDC informed that they are facing problem in updating the information at control center in short time interval.

ERLDC also requested that the bay swapping information may also be sent for updating the database.

OCC advised all the constituents send the requisite information by 25th of every month. All constituents agreed.

Item no. B.37: Auto-Reclose (A/R) scheme of 400kV Jeypore- Gajuwaka D/C line--ERLDC

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

In the 33rd PCC meeting held on 21-07-15, it was clarified by PGCIL that for 400kV Jeypore-Gajuwaka line, 3-ph tripping and auto-reclosing scheme has been implemented at Gajuwaka end, whereas, at Jeypore 1-ph tripping and auto-reclosing would occur for any SLG fault (in Z-I). PGCIL further explained that 3-phase tripping scheme had been adopted at Gajuwaka end on advice of OEM of HVDC, for avoiding commutation failure of the converter on AC side voltage unbalance & 3rd harmonics, which might occur if 1-ph tripping scheme had been implemented.

In this connection, it is stated that 3-ph tripping at Gajuwaka end and 1-ph tripping at Jeypore end is likely to trigger high voltage condition at Jeypore, as the two healthy phases of the 220km long line remain idle-charged during the dead time. PGCIL may therefore consider implementing 3-ph tripping at Jeypore end also.

It is further requested to take necessary action to ensure that voltage input for the PMU at Jeypore is obtained directly from the 400kV bus PT, instead of the arrangement existing at present. This is essential so that the PMU records the true bus voltage of Jeypore for all possible trippings.

Powergrid may update.

Deliberation in the meeting

OCC advised Powergrid to consider implementation of 3-ph tripping and auto-reclosing scheme at Jeypore end.

Powergrid informed that voltage input to the PMU at 400kV Jeypore S/s has been connected from 400kV bus PT.

Item no. B.38: Reactive Power performance of Generators and GT tap position optimization

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

Power Plant	Max and Min Voltage observed	Date for monitoring (July15)
	for July 2015 (KV)	
Farakka STPS	422,408	06,16
Khalgaon STPS	426,407	06,15
Talcher STPS	412,401	
Teesta	418,400	
Bakreshwar TPS	411,395	
Kolaghat TPS	425,397	08,19
Sagardighi TPS		
MPL		
Mejia-B	427,416	07,17
DSTPS	428,417	05,21
Adhunik TPS		
Sterlite		

ERLDC may update.

Deliberation in the meeting

ERLDC informed that the performance of all the generators was satisfactory.

a) Schedule for reactive capability tests

In 111th OCC, the tentative schedule of testing was updated as follows:

- a. Adhunik TPS(both units) –Yet to be confirmed by Adhunik
- b. DSTPS(Unit#2 only pending) -To be done in July/August15
- c. Mejia#7(only U#7 pending) To be confirmed by DVC
- d. Koderma TPS(both units) -To be done in July15
- e. JITPL(both units) -July15
- f. Barh Unit#6 -To be confirmed by NTPC

Members may update.

Deliberation in the meeting

Members updated the status as follows:

- a. Adhunik TPS(both units) -Yet to be confirmed by Adhunik
- b. DSTPS(Unit#2 only pending) -To be done in Sep, 15

- c. Mejia#8 (only U#8 pending) November, 2015
- d. Koderma TPS(both units) -To be done in July15
- e. JITPL(both units) Procedure is to be circulated.
- f. Barh Unit#6 -After PG test

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:

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

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

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

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

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

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

In 109th OCC, MPL informed that they were having following constraints in raising the GT tap position from 5 to 6 i.e. reducing voltage from 420 kV to 409.5 kV.

- 1. MPL 400 kV bus average voltage is varying from 412 to 416 kV, sometime it goes up to 420 kV also. If we reduce voltage to 409.5 kV MPL generator has to always run in under excited condition.
- 2. During synchronization, MPL has to excite its generator more than its rated voltage (21 kV) as system voltage will be more than GT output voltage.
- 3. If MPL generating voltage will be more than 21 kV then unit auxiliary motor will be more voltage stressed. This will also lead to frequent tap changer operation of UAT.

In view of that request for providing the tap wise GT output voltage of other generating plant for better analysis in overcoming grid system overvoltage issue.

OCC advised ERLDC to provide the necessary details to MPL.

110th OCC opined that fixing uniform GT tap position for all the generators does not solve the high voltage problem and it will be decided on requirement of VAR absorption.

OCC advised MPL to change the GT tap position and depending on level of voltage further corrective actions such as increasing GT tap position at Mejia-B, DVC or any other generator will be initiated.

MPL agreed to change the GT tap position by one step on next opportunity shutdown.

In 111th OCC, MPL informed that they will change the GT tap position in December, 2015 during their Annual Overhaul.

ERLDC and MPL may update the status.

Deliberation in the meeting

MPL informed that they will change the GT tap position in 1st week of October, 2015 during their Annual Overhaul.

PART C:: OPERATIONAL PLANNING

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

Members may finalize the Shutdown proposals of the generating stations for the month of September' 15 circulated in the meeting.

ERLDC may place the shutdown proposals of transmission lines.

Members may confirm.

Deliberation in the meeting

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

Odisha vide mail dated 14-08-2015 requested for shutdown of TTPS unit#2 from 00.00 hrs of 20.08.2015 to 03.09.2015 for 15 days to renewal boiler license. It was also informed that the shutdown of TTPS unit#2 will be availed after synchronization of #5 TTPS which is under shutdown since 00:59 Hrs of 29.07 .2015 for Boiler license renewal.

Members may approve.

POWERGRID vide mail dated 16-08-2015 informed that they need shutdown of following Interregional lines for protection audit and protection scheme checks at following locations. The dates for shutdown of the IR lines in Odisha are indicated below. Shutdown is required as scheme checking shall involve tripping of Main and Tie CBs from Protection Relay Main-I and Main-II and its auto-reclosure/ AR Lockout schemes, Trip logics of Main CB LBB protection and Tie CB LBB protection, Carrier-aided trip transfer, etc. It is requested to kindly consider the outages proposed as below:

1. 400kV Jharsuguda-Raigarh	Jharsuguda	17-08-15
2. 400kV Jharsuguda-IndBharat	Jharsuguda	18-08-15
3. 765kV Jharsuguda-Dharamjaygarh I	Jharsuguda, Dharamjaygarh	19-08 & 20-08-15
4. 765kV Jharsuguda-Dharamjaygarh II	Jharsuguda, Dharamjaygarh	21-08 & 22-08-15

All days outage shall be from 0900 hrs to 1800 hrs.

Powergrid explained that shutdown could not be taken up during last OCC as the program was scheduled after the last OCC. As per present situation, it cannot be differed till the next OCC and its whole processing time.

Members may note.

OCC advised Powergrid to re-examine the reasons for availing the above outages as these tests can be carried out without taking shutdown.

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

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

Members may confirm.

Deliberation in the meeting

Modified anticipated power supply position for the month of September, 2015 after incorporating constituents' observations is given at **Annexure-C.2**.

Item no. C.3: Prolonged outage of power system elements in Eastern Region

(i) Generating units:

Generating	UNIT	CAP(MW)	REASONS FOR OUTAGE	DATE	Date of
Station	NO				restoration
STERLITE	3	600	DE-SYNCHRONISE FOR MAINTENANCE	29-Jun-15	
KAHALGAON	6	500	DE-SYNCHRONISE FOR OVER HAULING(25 DAYS) DDDAYS)DAYS)	8-Aug-15	
MEJIA	3	210	MAINTENANCE WORK	14-Jul-15	
BANDEL	5	210	LONG MAINTENANCE	16-Nov-	
STERLITE	4	600	DESYND. DUE TO LOW SCHEDULE	2-Jul-15	
BOKARO 'B'	3	210	C & I PROBLEM	20-Apr-15	
MEJIA	4	210	TUBE LEAKGE	10-May-	
MEJIA	5	210	COAL SHORTAGE	9-Aug-15	
KODERMA	1	500	ASH POND PROBLEM	11-Nov-	
DSTPS	2	500	COAL SHORTAGE	16-Jul-15	
TENUGHAT	2	210	TUBE LEAKGE	25-Jul-15	
MUZAFFARPUR	2	110	TURBINE VIBRATION	12-Jul-15	
KOLAGHAT	5	210	TUBE LEAKGE	7-Aug-15	
BAKRESHWAR	4	210	COAL SHORTAGE	30-Jun-15	
DPL	7	300	TUBE LEAKGE	29-Jul-15	
SAGARDIGHI	1	300	LOW VACCUAM	14-Jul-15	
BOKARO 'B'	1	210	LOW DEMAND	2-Aug-15	
MEJIA	2	210	COAL SHORTAGE	10-Aug-	

(ii) Transmission elements

Name of the Line/Element	Outage	Reason	Date of restoration
NIL			

Members may update.

Deliberation in the meeting

Members noted.

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

- 220kV Maithon-Dumka-I and II bays at Maithon were successfully charged for the first time at 21:27hrs and 21:29hrs of 09/07/15 respectively. Subsequently, 220kV Maithon-Dumka-I and II were charged on no load at 18:45hrs and 21:42hrs of 20/07/15 respectively and 220kV Bus-I and II at Dumka were charged at 19:04hrs and 19:17hrs of 20/07/15 respectively. Finally both 220kV Maithon-Dumka-I and II were loaded at 16:54hrs of 22/07/15.
- 2. 500 MVA ICT-I at New Purnea was charged for the first time on no load at 19:14hrs of 10/07/15. Subsequently the same was loaded at 18:32hrs of 11/07/15.
- 3. 132kV Banka-Sultangunj-I was charged for the first time on no load at 18:50hrs of 15/07/15. Subsequently the same was loaded at 19:05 hrs of 15/07/15.
- 4. 160 MVA, 220/132 kV Grid S/s at Puri (Samangara) S/s was commissioned on 14.07.2015 at 14:14 Hrs.
- 5. 132 kV LILO of Nimapara-Puri line to Puri (Samangara) S/s charged on 15.07.2015
- 6. 100 MVA Auto-I at Mendhasal charged on 17.07.2015 at 21:43 Hrs.
- 7. 132 kV Mandhasal-Khurda ckt charged on 17.07.2015 at 23:05 Hrs.

Members may update.

Deliberation in the meeting

Members noted.

Item no. C.5: Status of commissioning of generating station and transmission elements

New generating units:

S.No.	Power Plant	Plant Size	Expected date
1	Raghunathpur Unit#1	2x600MW	
2	Sagardighi Unit #5	500 MW	

New transmission elements:

SI No.	Name of Element	Expected date		
1	400kV Rajarhat-Purnea D/C(with LILO of one circuit each at			
	Farakka and Gokarno)			
2	Augmentation of 400kV Farakka-Malda D/C with HTLS			
	conductor			
3	400kV Ind-Bharath-Jharsuguda D/C			
4	400kV Talcher-Bramhapur-Gazuwaka D/C			
5	400kv Talcher-Rourkella(2 nd D/C-Quad)			
6	400kV Sterlite-Jharsuguda D/C			
7	LILO of Baripada-Mendhasal D/C at New Duburi			
8	765kv Anugul-Srikakulum D/C			
9	400kV Sasaram-Daltonganj D/C &Daltonganj S/Stn			
10	400 kV Ranchi-Raghunathpur D/C			
11	400 kV Meramandali-Dubri D/C			
12	400 kV IB-Meramandali D/C			
13	220 kV TLDP-IV – NJP ckt-2			
14	220 kV Bidhansai-Cuttack D/C			
15	220 kV Girdih-Koderma D/C	·		

Members may update.

Deliberation in the meeting

Members noted.

PART D:: OTHER ISSUES

Item no. D.1: UFR operation during the month of July'15

System frequency touched a minimum of 49.58Hz on 13/07/15 at 14:39Hrs. Accordingly, no report of operation of UFR has been received from any of the constituents.

Members may note.

Deliberation in the meeting

Members noted.

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

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

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

No report from any constituent has yet received. Hence, ERLDC would be considering 'Nil' report for all constituents for July'15.

Members may note.

Deliberation in the meeting

Members noted.

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

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	OPTCL (Budhipadar)	03/07/15 at 22:27hrs	730	450	Total power failure occurred at 220kV Budhipadar S/s of OPTCL system due to bursting of Y-Ø CT of 220kV Budhipadar-Raigarh line at Budhipadar end	GD-1
2	OPTCL (Tarkera)	06/07/15 at 09:55 & 10:54 hrs	0	130	Total power failed at 220kV Tarkera S/s in OPTCL system due to fault in 132kV Tarkera-Rajgangpur-I & 220kV Tarkera- Budhipadar-I	GD-1
3	Chukha HPS	18/07/15 at 18:43hrs	270	0	All units of Chukha HPS tripped due to tripping of 220kV Chukha-Birpara-D/C tripped on 3-Ø to ground fault.	GD-1
4	220kV Maithon S/s	21/07/15 at 22:44 hrs	0	0	Total power failure occurred at 220kV Bus of Maithon S/s due to operation of Bus bar protection in 220kv MB-II.	GD-1
5	JSEB (Chandil)	29/07/15 at 16:53 Hrs	0	250	Total power failed at 220kV Chandil S/s in JSEB system due to fault in 132kV Chandil-Hatia line	GD-1

Members may note.

Members noted.

Item no. D.4: Any other items.

1. Re-conductoring of 400KV Malda-Farakka D/C line -- Powergrid

The re-conductoring of 400KV Malda-Farakka-D/C with HTLS conductor and upgradation of bay equipment has been awarded under ERSS-XII. For re-conductoring and replacement of bay equipments at Malda/ Farakka, shutdown of 400KV Farakka-Malda D/C is required one by one on continuous basis as per following details:

- a) 400KV Malda-Farakka-I: 10.09.2015 to 25.11.2015 on continuous basis.
- b) 400KV Malda-Farakka-II: 26.11.2015 to 31.01.2015 on continuous basis.

The shutdown may kindly be allowed so that necessary communication can be made to the agency for starting the work.

Deliberation in the meeting

WBSETCL informed that that these works can be done by taking shut down on daily basis.

After detailed deliberation, OCC allowed the shutdown of 400KV Malda-Farakka-I from 25th October, 2015 (i.e. after puja). However, the shutdown will be given on weekly basis after reviewing the power scenario of north Bengal and NER.

2. 50MVAR Line Reactor of 400KV Durgapur-Bidhannagar line at Durgapur Substation -- Powergrid

One 50MVAR line reactor was connected in 400KV Durgapur-PSP line at Durgapur Substation. The said line made LILO at Bidhannagar. After LILO of the line, the line length between Durgapur and Bidhannagar is 11 km. Presently the line is OVER COMPENSATED.

As per study, for over compensated lines, the bay equipment along with the reactor are in danger condition at the time of switching off the line.

In view of the above, 50MVAR line reactor connected in 400KV Durgapur-Bidhannagar line is to be taken out of service. The possibilities of making Switchable of 50MVAR Reactor is to be explored considering the Layout at Durgapur.

Members may kindly discuss.

Deliberation in the meeting

OCC felt that 50 MVAR reactor for 11 km line is not required. So, OCC advised Powergrid to remove the reactor and keep it as a regional spare.

Powergrid agreed.

3. High voltage problem at 220/132kV Jaynagar S/s -- OPTCL

OPTCL vide letter dated 19-08-2015 informed that they are experiencing high voltage at 220/132kV Jaynagar s/s and they observed significant reactive power injection in 220kV Jaynagar (PG) line-I & II at high voltage condition.

OPTCL requested for expediting the installation of reactor at Jeypore (PG) S/s.

Powergrid informed that the present tap position of ICT at Jeypore S/s is at 14.

OCC advised Powergrid-Odisha to expedite the installation of reactor at 400kV Jeypore (PG) S/s.

4. Charging of 400kV lines without intimation to SLDC -- OPTCL

OPTCL vide mail dated 18-08-2015 informed that Powergrid has charged 400KV New Duburi - Kalabadia and 400KV New Duburi - Mendhasal lines for the first time on 17.08.2015 at 19:53 Hrs without intimation to SLDC, Bhubaneswar which is a violation of the code provision.

Deliberation in the meeting

OCC advised Powergrid-Odisha to take care in future.

5. Bypassing SEMs in BSPTCL system -- ERLDC

A. At 132kV SABOUR S/s of BSPTCL

SEM is installed at both end of 132kV Sabour- Banka (PG) Line. As per the SEM data received from 132 kV Sabour (BSPTCL), readings of meter (Serial No. NP-7874-A) installed at Sabour end of 132 kV Sabour- Banka (PG) Line is not recording any flow compared to Banka PGCIL end since June, 2015. It was gathered from Sabour S/s that line is feeding load to Sultanganj (BSPTCL) regularly through Transfer Bus of Sabour by passing the SEM at Sabour.

Sabour Load is being fed by availing power through 132kV Sabour –Kahalgaon (NTPC) Tie line and the same is received at Main Bus of Sabour. Power flowing through 132kV Sabour-Banka(PG)Line is availed at Main Bus only when 132kV Sabour –Kahalgaon (NTPC) Line is not in service. In that case Meter installed at Sabour end of Sabour-Banka(PG) Line records the energy flow through the line.

In absence of non-recording of data by SEM installed at Sabour BSPTCL end of the aforesaid Tie line, data validation and energy accounting is being affected. Presently, energy accounting is being done considering Banka PGCIL end meter.

By passing of SEM installed at Tie line is violation of CEA metering regulation 2006 and the same is needed to be restored.

B. At 132kV Kishanganj S/s of BSPTCL

SEM is installed at both end of 132 kV Kishanganj-Dalkhola (WB) Line. As per the SEM data received from 132kV Kishanganj (BSPTCL), readings of meter (Serial No. NP-5236-A) installed at Kishanganj end of 132kV Kishanganj-Purnea (PG) Line is not recording any flow compared to Purnea PGCIL end since 14:00 hrs of 29th June, 2015. It was gathered from Kishanganj that line is feeding load to Farbisganj at BSPTCL regularly through Transfer Bus of Kishanganj bypassing the SEM at Kishanganj.

Kishanganj Load is being fed by availing power through 132kV Kishanganj-Dalkhola(WB) Tie line and the same is being received at Main Bus of Kishanganj. Power flowing through 132kV Kishanganj-Purnea (PG) Line is availed at Main Bus only when 132kV Kishanganj-Dalkhola(WB) Line is not in service. In that case Meter installed at Kishanganj end of Kishanganj-Purnea(PG) Line records the energy flow through the line. This problem started from the date when Kishanganj starts availing power from Dalkhola Grid of WBSETCL.

In absence of non-recording of data by SEM installed at Kishanganj BSPTCL end of the aforesaid Tie Line, data validation and energy accounting is being affected. At present energy accounting is being done considering Purnea PGCIL end meter.

By passing of SEM installed at Tie Line is violation of CEA metering regulation 2006 and the same is needed to be restored.

Deliberation in the meeting

BSPTCL informed that both the arrangements are of temporary nature.

OCC advised BSPTCL to follow the CEA metering regulation. Further BSPTCL was advised that any temporary connection/bypassing of SEM should be intimated to ERLDC in advance.

Meeting ended with vote of thanks to the chair.

Annexuse-A

Participants in 112th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 21.08.2015 (Friday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
1.	AKBanenee	MS/ERPC	9433068533	msexpc-powereme.in	Beenly
2	U.K. Verma	CIM ERLOC	08902496220	ij Workenes . Verno Egunt	Ucharia
3	P. P. BANDYOPADHA	Dam/ERIDE	7044083323	path lange gotor con	भा कर्म
4	G. Charrabally	DGM/ERLDC	9433041815	C.goutem 62@gnail.lm	wiking
5	PSDAS	AS/9M/ELLOC	9433041837	psdospsdo	£
6	8 BANERJEE	Ast GM, ERLDC	9433041823	surojit b@gmail.com	kyc.
7	SIR ISINGH	DGM/POWERGE		susingly@gehoo.co.in	CANE
8	B. Pan	CE(SCDC)	9903247102	bpan, dre. @ gmal.	Bun
9	S Nayor	AGM(US)/NTPC ER-2	9437041581	& naupre onthe co. in	Deyer
10	RAJESH KUMAR ROT	AGMOS) NTPC, ER-1 EE/O.S.	9431011399	orkroy 02 antpe. a	21.8.21)
11	Chen Dog.	THE, DEPC	17163929	c. doop Etymeilus	Formery
12	M. Brasael	DGPC CO	4975 1761 0621	munnaprasad Q agnail. Com	XS.
13	A. K. Hayale.	GH-EMD MPL	9201958570	nayakak @ tatapener.	Men
14	M.K. Panda	AGM-Elect (IPP)/ Vedanta Limited	9937047045	manaskumar panda@vedank	- ka
15	PK Sonapati	AGM (E'lect)	9777580352	Poasant . Senapathy@gmsgov	pin P-KGA
16	M.K. Thakur	DM (ERLDC)	943231832	mkt_cleet@yalus.co.in	AMO
17	N. Mandal	SrGM (E) Gate	801608 229 9	niladri. mandal@ gatiinfra, com	** 21/8f
18	C. S. Bobade	VP, JITPL	9869455146	VP-transmission@	ceis.
19	Madher Sudan Sahro	AGM, GRIDCO	9692427876	quideco esc @ gmais. com	M.S. Sahoo
20	H.P. Matapatra	Mgr, offe	9861164943	hpon. Ohpe Ogorail.com	My.

[&]quot;Coming together is a beginning, staying together is progress, and working together is success." –Henry Ford

Participants in 112th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 21.08.2015 (Friday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
21	M. R. Molarly	Sor GOT (05)	9438907210	nevniolarly 4/13 quest	fleef
22	P. K. DAS	Dam (slea)	9438907408	prashortk_das@gano.com	R
23	R. Biswas	. SMIALDE, DPL	9434735985	ranjentismes 1 egman.	Dui
24	RCHAKLAVARTY	OBM GOURE)	98310546A	CVP-5g. voi	RULT
25	P.K. BANEASTEE	Sulleyn, KTPS,	853690 3891	Px. boneji @ ubpdel. co. ii.	-b
26	el. Raichardhori	C. B SLDC	9434910030	raidfudtein ANE Sarin Co	000
27	A.K. Mishog.	AEESLAC JUSHL Parch	9263296225	S.LOC E MainTKNI	.Agh
28	D.K. Singh	EEE/SLDC BSPTCL	7763817716	side. bs 26 @ gmail, com	psol
29	Harish charder	DYCEE/Railways	9002020312	harishchandu37 @yahoo.in	an
30	G. Reo	AEE/ERPC	9547891353	exeb-cea@yahov.co.	Cyrada
31	D. K. Bauri	EE(O), ERPC	9883617236	ecop. espe agovim	Soul
32	V. Colyanarana	SE, GAR	8902497969	a Wearword Drod Mills	(Qa)
33	T. K. W.	BCE/WBSBP4		Krema-tapende Ognath	on Jul
34	P. K. Kunda	ACE/SLOW WISSETER	9434910263	phundy 1961 @ yahoo	co.en Ist
35	P. HALDEP	Dam, NBPDCL	8336903685	phulder@wbpdcl.co.in	P. Haldr
36	N.G. Sala	SM, WBADEL	8 336903700	ngachae coppel:	سليعمد
37	A. Selhi	DM, GRIDEO	9438506354	ele a sethio	in Sky
38	A. K. Basak	Engg., ERLDC	3007059569	ashoke ju ee@gmil.com	AB
39	B.Mmdal	Engr, ERLDG		Sicwogistumolal 918	1020mg-
40	Tenzing hal	S.O, DGPC CHP, Blufan	1355.8960	t. choefel 22 R quai	Jej.

[&]quot;Coming together is a beginning, staying together is progress, and working together is success." –Henry Ford

Participants in 112th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 21.08.2015 (Friday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
41	Jampa Tharchou	JE, THE DGRO	17090496	jampadgpc@gmail.com	. Ask
42	Sanguy Worgh. S. P. Keth	Head, OD, CHP/DAR NHPC, TEESTA-U PC	17702891	sangaywong Formailion	any
	S. P. Reth		8170005662	Sexti 1975 Ogmerkan	200
44	Itten Day	fourther, cla	943473939	erts 2 am egmail. com	9
45	T.R. Mohopula	2m JERIOL	9433041673		T.L
46	S. K. Naik	theman of our	943796269	onnodisha gran.	89_
47	Lenin-B	AEE/ERPC	8335905973	lemininite Egmeil up	crything
48	S. KEJRIWAL	EE/ERPC			Ang_
49	RAJDEEP BHATTACHARJEE	ROE. BSPHCL, KOIKATO	9830380689	rekollospholægmail.com	bly.
50	BHAVESH SAHU	Sr. Engineer APHEL	9771430742	bhavish sahnaz Agmeid.	Hul
51	Preetan Banupi	SÉ WBSEDLL	9432140765	predon720 gmcil.cu.	12-
52	Samir Pondals	Head-Opn MPL	9031000323	spandala Stalopaon. con	End
53	P. K. DE	EE, ERPC	9433125844	rpc.erfe@gov.in	Re,
54					
55					
56					
57					
58					
59					
60	***************************************				

[&]quot;Coming together is a beginning, staying together is progress, and working together is success." –Henry Ford

Participants in 112th OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 21.08.2015 (Friday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
61		110	- x		et gard
62	- Special Committee of	T a			
63		^	1 3		- 1 1
64	AND CONTRACTOR OF THE PROPERTY				
65					
66					
67					
68					
69					
70					Per g
71		1			
72	e est a				1332
73		1 • 6 \$11			
74					
75					
76					
77					
78					
79					
80					

Format for Monitoring of PPA's/Capacity contracted by Discom, State for the period ending 31.03.15

Name	of the St	ate	Na	me of the I	Discom		

	Capacity Contracte	Type of load requirement (Base/	Contract (Case-I / Case- II /Shortterm/	Contract period (long/Mediu m/ Short-	Date of Commenc ement of Supply	Date of end of	Rate-	Contracted Power	Capacity of Power Station-MW (unit wise)	State Location of Power		of power station(COD	Scheduled COD	Power Station Fuel Type (Coal/Lignite/ Gas/Hydro/Nu clear/ NCES)	Power Station Fuel (i ndigenou s/Importe d)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	1	14	15		16

Pleae note:

- 1. All the dates are to be given in the dd-mmm-yyyy (eg. 31-Oct-2009) especially columns 6, 7 and 14
- 2. Data should be furnished for PPAs in force as on date.
- 3. Data on PPAs signed by the Discoms or signed by the other holding companies on behalf of Discoms also to be furnished.
- 4. Data relating to all the sectors i.e. Central, State and private should be furnished.
- 5. Data must be furnished in Excel sheet and e-mailed.
- 6. In Column 5, please mention like long, medium and short only for easy analysis.

Annexure-B.13

Final List of Substations in ER to be audited by M/S TRACTABLE

SI No.	Voltage(kV)	Name	Owner
1	400/220	Jeypore	POWERGRID
2	400/220	Bolangir	POWERGRID
3	400/220	Biharshariff	POWERGRID
4	400/220	Sasaram	POWERGRID
5	400/220	Maithon	POWERGRID
6	400/220	New Purnea	POWERGRID
7	400/220	Mendhasal	OPTCL
8	220	Tarkera	OPTCL
9	400/220	Indravati HPS	OHPC
10	220	Joda	OPTCL
11	400/220	Jeerat	WBSETCL
12	400/220	Arambag	WBSETCL
13	220	Chandil	JUSNL
14	220	Biharshariff	BSPTCL
15	220	Kalyaneswari	DVC

Eastern Regional Power Committee

Minutes of Special Meeting for "Synchronization of Unit #1 (350 MW) of Ind Barath (IBEUL) through LILO of 400 kV Raigarh-Jharsuguda-I at Ind Barath (IBEUL)" held on 10.08.2015 at ERPC, Kolkata

List of participants is at **Annexure-A.** Member Secretary, ERPC welcomed all the participants to the special meeting. He informed that this special meeting was convened on advice from OCC on issue of commissioning of unit #1 (350 MW) of IBEUL through using LILO of 400 kV Raigarh-Jharsuguda-I at Ind Barath (IBEUL). Thereafter he took up the agenda item.

A) Synchronization of Unit #1 (350 MW) of Ind Barath (IBEUL) through LILO of 400 kV Raigarh-Jharsuguda-I at Ind Barath (IBEUL)

The house was briefed about the following information related to IBEUL:

- 1. Ind-Barath (IBEUL) was granted connectivity to grid on 2nd November, 2012 with commissioning scheduled on June, 2013 for its units.
- 2. In February, 2013 CTU informed all Odisha IPP/developers to connect to 400 kV Jharsuguda pooling station to get connectivity for evacuation of power.
- 3. In July, 2014 Ind-Barath (IBEUL) applied for LILO of one ckt of 400 kV Raigarh-Jharsuguda line at Ind-Barath (IBEUL) for drawl of construction power by giving certificate that the LILO will be used only for drawl of power in a meeting with CEA/CTU. The commissioning of dedicated line (i.e. 400 kV Ind Barath- Jharsuguda D/C line) was assured to come before synchronization of IBEUL.
- 4. On 18.06.15 during electrical testings and checkings in the synchronization panel for phase sequence the unit got test synchronized for 5 minutes which was tripped immediately as explained by IBEUL in detail in 110th OCC meeting.
- 5. IBEUL requested OCC that it may be taken as test synchronization.
- 6. In 110th OCC held on 29.06.15, the plea for considering the incident of 18.06.15 as test synchronization was not accepted by OCC.
- 7. In 110th OCC held on 29.06.15, IBEUL was advised to place formal proposal to ERLDC for test synchronization with all details along with specific authorization from CTU for using the LILO for injection of in-firm power.
- 8. In 111th OCC held on 24.07.15, Ind-Barath (IBEUL) informed that they had a meeting with CTU, NLDC and CEA on 8th July, 2015 regarding synchronization of their unit. Once again they requested OCC to allow their generator to be synchronized with the grid for testing/commissioning activities with the present LILO as their dedicated line is expected to be commissioned by September, 2015.

- 9. In 111th OCC, Gridco/OPTCL, Odisha stated that they are interested in getting power from Ind-Barath (IBEUL) and early commissioning is recommended.
- 10. 111th OCC advised secretariat to convene a special meeting in ERPC on the issue with all concerned and therefore this special meeting was arranged.

In the special meeting-----

ERLDC informed that 400 kV Raigarh-Jharsuguda line is exposed to continuous tripping since the inception/grant of LILO to Ind –Barath (IBEUL). Till date there were 14 (or more) incidences of trippings which are due to lack of coordinated & adequate protection system at Ind-Barath (IBEUL). The protection system at Ind-Barath (IBEUL) is not healthy and with the present situation the injection of power through this LILO may not be allowed for grid security.

Powergrid- Odisha informed that the 400 kV Ind-Barath-Raigarh section is passing through deep forest & therefore trees branches are needed to be cleared on regular basis. Also it was informed that there is some wiring problem in Relay/PLCC panels at Ind Barath (IBEUL) which sends DT signal on un-desired occasions to Ind Barath- Jharsuguda section for tripping.

IBEUL was advised to clear the infringements on 400 kV Ind Barath-Raigarh section and to rectify the Relay/PLCC panel wiring by the manufacturers. On completion, it was advised, IBEUL is to coordinate the protection settings/adequacy in interaction with Powergrid.

GRIDCO informed that at present the reservoir level of OHPC dams are low as compared to last year's levels and severe power shortages may come during the month of November/December, 2015. So, Gridco opined, if IBEUL unit were allowed to carry out testing & commissioning activities from August, 2015, the same could be commercially declared by December, 2015 and Odisha may get power from IBEUL. Moreover by December, 2015 dedicated line to CTU network from IBEUL is expected to be commissioned. Therefore, GRIDCO preferred injection through LILO for testing and commissioning activities only so that power from Ind-Barath (IBEUL) gets available during shortage period of November/December.

GRIDCO updated the actual status of commissioning of 400 kV Ind-Barath (IBEUL) to Jharsuguda D/C (dedicated line) as verified from the site which is as given below:

- 120 towers foundations out of total 125 towers have been completed and 109 have been erected; 6 towers are under progress.
- Stringing work of 31 km out of 40 km line is completed; 3 km is under progress.
- Taking into consideration of ROW problem, rain & cultivation of land etc the line is expected to come by December, 2015.
- The bay work at 400 kV Jharsuguda (Kenapali) S/s is in advanced stage, being executed under the consultancy of Powergrid, will be completed ahead of line.

The detail report as submitted by OPTCL is given at **Annexure-I**.

IBEUL, however assured the house that the dedicated line will be completed by November, 2015.

Further, IBEUL informed that the unit #1 (350 MW) is completely ready for synchronisation in all respects.

On query, IBEUL informed that around 40 days are required to complete the pre-commissioning activities from the date of synchronization.

In view of above, IBEUL requested to allow their generator (unit #1) to synchronize through the existing LILO to carry out the pre-commissioning activities. So the COD of the unit could be declared in November, 2015 which is matching with the commissioning of dedicated line. The demonstration of Maximum Continuous Rating (MCR) test for 72 hours for COD (mandatory requirement of COD) may be carried out after the commissioning of the dedicated line.

After detailed deliberation the committee decided the following:

- 1. IBEUL will rectify the relay/PLCC panel wiring in consultation with their manufacturers and will submit a certificate from Powergrid regarding the healthiness of protection co-ordination at Ind Barath (IBEUL).
- 2. Tree branches/infringements on 400 kV Raigarh-Ind Barath section will be cleared on regular basis to minimize the transient tripping due to infringements.
- 3. IBEUL have to complete all the formalities with ERLDC related to synchronization of unit like completion of data connectivity, telecommunication etc.
- 4. IBEUL will follow all the instruction of ERLDC in real time and will submit the details of injection schedule beforehand.
- 5. IBEUL will be allowed to inject power through the LILO of 400 kV Raigarh-Jharsuguda at Ind Barath for testing & commissioning activities only.
- 6. IBEUL will submit the progress report of both pre-commissioning activities as well as construction of dedicated line to ERPC/ERLDC on fortnight basis.
- 7. Declaration of the unit as COD will only be considered after completion of the dedicated line 400 kV Ind Barth-Jharsuguda D/C line.

IBEUL unequivocally agreed that LILO as an interim arrangement will only be used for testing and commissioning activities of the unit and it will never be used for performing the MCR test for 72 hours for declaring unit under COD.

IBEUL also agreed that till commissioning of dedicated line neither application for STOA/MTOA/LTA contracts nor for selling power through Power Exchange will be made from their end.

IBEUL was advised to submit an official undertaking before commencement of injection through LILO is permitted. IBEUL agreed.

Subsequently, IBEUL has submitted the undertaking which is given at **Annexure-II**.

Annexuse - B.19

UFR installed in different GSS of BSPTCL ,Patna as listed below is in service up to 19th August 2015.

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

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

19/8/13 19/8/13

19.08.2015 EEE URITE

Status of UFR at Sub-stations under Transmission Dept. in the month July '15

SI No	Name of sub-station	Feeder Details	CD (MVA)	In-service	Test performed	Results/Remarks
1	Burdwan	WBSEB Burdwan	48	Yes	Yes	PT Fuse of the UFR was removed and supply fail alarm appeared
2	Durgapur	Graphite India+ Jai Balaji Industries+ Jai Balaji Sponge	74	No	Yes	PT Fuse of the UFR was removed to avoid unwanted tripping.
3	Durgapur	SRB Steel+ Brahma Alloy+ Venky Steel+ VSP+ Shri Gopal Hi-tech	67	No	Yes	PT Fuse of the UFR was removed to avoid unwanted tripping.
4	Kalyaneswari	BMA+ Impex+ Hira Concast+ MPL	47	Yes	Yes	PT Fuse of the UFR was removed and supply fail alarm appeared
5	Kumardhubi	JSEB Sanjay Chowk+ Mugma+ DPSCO Dishergarh	60	Yes	Yes	PT Fuse of the UFR was removed and supply fail alarm appeared
6	Putki	JSEB Godhar+ Bhuli+ JSEB Ganeshpur+ JSEB Katras+ JSEB Katras Sijua	93.5	Yes	Yes	PT Fuse of the UFR was removed and supply fail alarm appeared
7	Patherdih	JSEB Govindpur + JSEB Mukunda + JSEB Digwadi	70	Yes	Yes	PT Fuse of the UFR was removed and supply fail alarm appeared
8	Ramgarh	JSEB Ramgarh	80	Yes	Yes	PT Fuse of the UFR was removed and supply fail alarm appeared
9	Hazaribagh	JSEB Hazaribagh	50	No	No	Commissioning taken up.
10	Giridih	JSEB Giridih	55	Yes	Yes	PT Fuse of the UFR was removed and supply fail alarm appeared
11	Koderma	JSEB Koderma	38	Yes	Yes	PT Fuse of the UFR was removed and supply fail alarm appeared

Total load relieved

682.5 MVA

West Bengal State Electricity Transmission Company Limited

Al Government of West Repail Enterprise

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



OFFICE OF THE CHIEF ENGINEER STATE LOAD DESPATCH CENTRE

Memo No. SLDC/HOW/18/2792

Date:- 08.08.2015

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

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

Dear Sir,

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

Thanking you.

Enclo: 1) 5 Nos.

Yours faithfully,

(A. Raichaudhuri)

Chief Engineer, SLDC

WBSETCL

STAGE-I

U/F RELAY SETTING 49.2 HZ

LOAD of the feeders of WBSETCL under 1st stage U/F relay-JULY'15

SI.	Name of Cub	Name of the feeders wi		tum to be	
50500	Name of Sub-	tripped by			STATUS
No.	Station		EVENING	MORNING	
		Name of feeders	MW	MW	
1	NBU 132 KV	a) 33 KV TCF			
		b) 33 KV Kharibari	12.0	10.0	
		c) 33 KV Ujanu	18.0	18.0	
		d) 11 KV Teesta	8.0	7.0	fuse O.K.
		e) 11 KV Bagdogra	13.0	11.0	
	4	f) 11 KV Phansidewa #2	4.0	4.0	
2	ULUBERIA 132 KV	a) 33 KV UIGC - 1	6.0	6.0	
		b) 33 KV Banitabla	18.0	11.0	D.C. C. Inch. ON . DT
		c) 33 KV Foodpark	17.0	22.0	D.C. Supply ON. PT
		d) 33 KV Amta	14.0	12.0	fuse O.K.
		e) 33 KV UIGC - 2	11.0	12.0	
3	KALYANI 132 KV	a) 33 KV WBIDC-I	3.0	3.0	
		b) 33 KV WBIDC-II	6.0	5.0	
		c) 33 KV University - I	14.0	13.0	5.6
		d) 33 KV University - II	9.0	7.0	D.C. Supply ON. PT
		f) 6.3 MVA Tr#1	5.0	4.0	fuse O.K.
		g) 5 MVA Tr#2	4.0	3.0	
		h) 5 MVA Tr#3	3.0	2.0	
4	DHARAMPUR 132	a) 33 KV Panpur	11.0	12.0	
- 1	KV	b) 33 KV Kanchrapara	13.0	11.0	
		c) 33 KV Gouripur	12.0	9.0	D.C. Supply ON. P7
		d) 33 KV Cord Road - 1	9.0	12.0	fuse O.K.
		e) 33 KV Cord Road - 2	10.0	9.0	
		f) 33 KV Jeerat	12.0	6.0	
5	GANGARAMPUR	a) 33 KV Buniadpur-1	17.0	8.0	
	132 KV	b) 33 KV Buniadpur-2	12.0	7.0	
		c) 33 KV Salas	12.0	9.0	D.C. Supply ON. PT
		d) 33 KV Rampur	6.0		fuse O.K.
		e) 6.3 MVA (33/11) Tr#1	5.0	4.0	
		f)10MVA TR#1	5.0	4.0	
					To be furnished by
6	CESC		65.0	65	CESC
	77	OTAL	354.0	309.0	

TOTAL 354.0 309.0

Walder 07.08.15

STAGE-2

U/F RELAY SETTING

49.0 HZ

LOAD of the feeders of WBSETCL under 2nd stage U/F relay-JULY'15

SI.		Name of the feeders wi				
	Name of Sub-Station		EVENING	MORNING	STATUS	
Vo.		Name of feeders	MW	MW		
1	DOMJUR 220 KV	a) 33 KV Jangalpur #1	22.0	18.0	DC SUPPLY ON	
		b) 33KV Jaladhulaguri#1	22.0	2.0		
		c) 33 KV Munshirhat	12.0	10.0	PT FUSE O.K.	
2	BAGNAN 231 KV	a) 33 KV Bagnan #1	0.0	0.0		
		b) 33 KV Bagnan #2	14.0	10.0	DC SUPPLY ON	
		c) 33 KV Amta	21.0	16.0	PT FUSE O.K.	
		d) 33KV Mugkalyan#1&2	19.0	14.0		
3	MALDA 132 KV	a) 33 KV Narayanpur	17.0	16.0		
		b) 33 KV Habibpur	10.0	9.0		
		c) 33KV Rabindra Bhavan	19.0	17.0	DC SUPPLY ON	
		d) 33 KV Manikchak	13.0	9.0		
		e) 33 KV KPS	21.0	18.0		
		f) 33 KV Kaliachak	22.0	19.0	PI PUSE U.K.	
		g) 33 KV Gazole	14.0	13.0		
		h) 1X6.3 MVA Tr#1	5.0	5.0		
		i) 1X5 MVA Tr#2	4.0	4.0		
4	NEW BISHNUPUR 220	a) 33 KV Sonamukhi	9.0	7.0	DC SUPPLY ON	
	KV	b) 33 KV Rohit	11.0	10.0	PT FUSE O.K.	
		c) 33 KV Patrashayar	9.0	10.0	PI FUSE U.K.	
5	BORJORA 132 KV	a) 33 KV Borjora-II	7.0	10.0	DC SUPPLY ON	
		b) 2X6.3 MVA Tr#1&2	1.0	1.0	PT FUSE O.K.	
6	CESC		90	90	To be furnished by CESC	

Ataldar 07.08.15

STAGE-3

U/F RELAY SETTING

48.8 HZ

LOAD of the feeders of WBSETCL under 3rd stage U/F relay-JULY'15

SI.	Name of Sub-	Name of the feeders v	EVENING	MORNING	STATUS	
No.	Station	Name of feeders	MW	MW		
1	LILUAH 132 KV	a) 33 KV Kona	18	20.0		
		b) 33 KV JNP	20.0	14.0		
		c) 33 KV KTT	20.0	16.0	D.C.C.IDDIV.ON	
		d) 33 KV MKD	15.0	16.0	DC SUPPLY ON.	
		e) 33 KV Baltikuri-1	11.0	11.0	PT FUSE O.K.	
		f) 33 KV Baltikuri-2	11.0	11.0		
		g) 33 KV Liluah	19.0	17.0		
2	NJP 220 KV	a) 33 KV Radhabari	9.0	6.0		
		b) 33 KV Raninagar	14.0	10.0	DC CHIDDLY ON	
		c) 33 KV Dabgram	17.0	14.0	DC SUPPLY ON. PT FUSE O.K.	
		d) 33 KV Fatapukur	14.0	7.0	PT FUSE U.K.	
		e) 6.3 MVA Tr-1 &2	1.0	1.0		
3	SALT LAKE 132 KV	a) 33 KV M5#1	12.0	11.0	DC SUPPLY ON.	
		b) 33 KV M5#2	12.0	11.0	PT FUSE O.K.	
4	OLD BISHNUPUR	a) 33 KV Kotolpur	13.0	9.0		
	132 KV	b) 33 KV Jaipur	13.0	12.0		
		c) 33 KV Simlapal	11.0	12.0	DC SUPPLY ON.	
		d) 33 KV Onda	7.0	5.0	PT FUSE O.K.	
		e) 33 KV Bankadaha	3.0	3.0	PIFUSE U.K.	
		f) 5 MVA Tr#1 &2	5.0	5.0		
		g) 6.3 MVA Tr#3	5.0	4.0		
5					To be furnished by	
)	CESC		120	120	CESC	

Walder 07 08.15

STAGE-4

U/F RELAY SETTING

48.6 HZ

LOAD of the feeders of WBSETCL under 4th stage U/F relay-JULY'15

SI.		Name of the feeders with lo	oad quantum to be relay	tripped by U/F		
No.	Name of Sub-Station		EVENING	MORNING	STATUS	
		Name of feeders	MW	MW		
1	SILIGURI 132 KV	a) 33 KV Siliguri-I	17.0	11.0		
		b) 33 KV Siliguri-II	19.0	18.0		
		c) 33 KV Rabindranagar-I	17.0	14.0	DC SUPPLY ON	
		d) 33 KV Housing Board	10.0	10.0	PT FUSE O.K.	
		e) 33 KV Desbondhu Para	11.0	8.0		
		f) 33 KV Gangadhor	2.0	2.0		
2	DARJEELING 132 KV	a) 33 KV Lebong	3.0	3.0	400	
		b) 33 KV Happy Valley	8.0	4.0		
3	JANGIPARA 132 KV	a) 33 KV Jangipara	12.0	9.0		
		b) 33 KV Siakhala	8.0	10.0	0.0	
		c) 33 KV Singti	13.0	9.0		
		h) 6.3 MVA Tr#1	2.0	3.0		
4	TAMLUK 132 KV	a) 33 KV Baraberia	8.0	5.0		
		b) 33 KV Moyna	11.0	8.0		
		c) 33 KV Gopalpur	22.0	16.0	10	
		d) 33 KV Tamluk	18.0	14.0		
		e) 6.3 MVA Tr#1 &2	8.0	6.0		
5	RISHRA 220 KV	a) 33 KV Borjora-II				
		b) 33 KV Dankuni-I&II	13.0	11.0		
		c) 33 KV Kaikala-I&II	6.0	8.0		
		d) 6.3 MVA Tr#1 &2	17.0	14.0		
		e) 6.3 MVA Tr#3 &4	13.0	10.0		
		f) 5 MVA Tr#5	11.0	8.0		
6	CESC		125	125	To be furnished b	
		TAL	274.0	376.0		

TOTAL 374.0 326.0

Maldar 07.08.15

STAGE-5

U/F RELAY SETTING

47.6 HZ

LOAD of the feeders of WBSETCL under 5th stage U/F relay-JULY'15

SL. NO.	Name of Feeders	Load (MW)	STSTUS	REMARKS
1	220KV Subhasgram - Laxmikantapur # 1 & 2	374	DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
2	132 KV Ashoknagar - Jeerat # 1 & 2	168	9	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
3	132 KV Arambag - Raina # 1 & 2	68	п	Maximum
4	132 KV Arambag - Birsingha #1 & 2	40	11	Maximum
5	132 KV Durgapur - Bolpur #1 & 2	150	n	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
	Total	800		

Ataldar 07.08.15



ODISHA POWER TRANSMISSION CORPORATION LIMITED (A Government of Odisha Undertaking) CIN-U401020R2004SGC007553

Regd.Office:Janapath,Bhoinagar,Bhubaneswar-751022 0/0 the CGM (O&M),FAX: (0674) - 2542932

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

1384

Dated/14-08.2015

To

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

Sub: Monthly Certification for healthiness of UFR relays for the month of JULY'2015.

Sir,

With reference to the above, it is to certify that all the UFR relays installed in 33kV & 132kV system of OPTCL were checked in the month of JULY'2015 and are found to be working normal.

Yours faithfully

Chief General Manager(O&M)

CC to

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

0/6



SANCHARN NIGAM LIMITED JHARKHAND URJA

Office of the

Electrical Superintending Engineer, State Load Dispatch Centre, Kusai Colony, Doranda, Ranchi Phone: 0651-2490090, Fax: 0651-2490486, Email: <u>sldcranchi@gmail.com</u>

Letter No.247' SLDC, Ranchi,

Dated, the 12-08-2015

From,

Er. S. S. Mishra

Elect. Supt. Engineer SLDC, Ranchi.

To,

Member Secretary, ERPC, 14 Golf Club Road,

Tollygunj, KolKata -700033

Latest Status of Under Frequency Relay of JUSNL for the month of July' 2015. Sub: Sir

With reference to the subject mentioned above the latest status of Under Frequency Relay for the month of July' 2015 is hereunder:-

Stage	8/8/9	33 KV Feeder	Remarks
	Kamdara	Kamdara	In Service
Stage - I	Gumla	Gumla	In Service
49.2 Hz	Deoghar	Sarath	In Service
	Lohardaga	Lohardaga	In Service
	Jamtara	Jamtara	Not In Service
-	Garhwa	Ranka	In Service
Stage - II	Garhwa	Bhawnathpur	In Service
49.0 Hz	Deoghar	Baidyanathpur	In Service
	Lohardaga	Tico	In Service
	Latehar	Manika	In Service
= = = = = = = = = = = = = = = = = = =	Hatia	Brambay	In Service
Stage = III 48 8 Hz	Adityapur	Adityapur I	Not In Service
	Japla	Japla	In Service
	Namkum	Kokar	In Service
Stage - IV	Hatia	Argora	In Service
48.6 Hz	Hatia	Dhurwa	In Service
	Hatia	Harmu	In Service
	Adityapur	Adityapur II	Not In Service

This is for your kind information & necessary action.

ESE, SLDC, Ranchi S Mishra) Yours faithfully S

4





Sys/Con: 609

1st August, 2015

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

Information Siers 12

Re: UNDERFREQUENCY

Dear Sir,

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

Please also note that there was no under frequency operation for the month of July, 2015.

Yours faithfully,

SR. MANAGER
SYSTEM CONTROL

SCANNED

West Bengal State Electricity Transmission Company Limited

(A Government of West Bengal Enterprise)

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



OFFICE OF THE CHIEF ENGINEER STATE LOAD DESPATCH CENTRE

Memo No.: SLDC/How/ 146/ 2785

Dated: 05/08/2015.

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

Sub:Status of UFRs for July-2015 under Tata Power islanding.

Dear Sir.

Enclosed herewith please find the healthiness report for July-2015 i.r.o. UFRs put into operation under Tata Power-Haldia Islanding Scheme at 132KV Haldia and NIZ S/stns. of WBSETCL. This is for your kind information please.

Thanking you.

Enclo: As stated.

Yours faithfully,

(P. K. Kundu.)

ACE, SLDC, WBSETCL.

UFR Status at 132KV Haldia and NIZ S/Stn. under Tata Power-Haldia Islanding for JULY-2015.

UFR Stg-I set a	t 47.90 Hz with 500ms time delay for Creation of Island	Healthiness	Remarks
Name of Sub- station	Name of Fdrs. to be tripped by UFR Stg-I	neartimess	Remarks
	132KV New Haldia direct ckt,		
Old Haldia 132KV S/stn.	132KV HPL ckt	D.C. Supply ON & PT fuse O.K.	
100 S	132KV Traction fdr. # 1&2	1	
	33KV Renuka Sugar fdr		
NIZ 132KV	132KV Tamluk # 1&2	D.C. Supply ON 9 DT five O.V	
S/stn. 132KV Rohit Ferro fdr.		D.C. Supply ON & PT fuse O.K.	
	ped by UFR Stg-II set at 47.70 Hz with ns time delay for load relief.		
Old Haldia	33kv CPT Fdr1	D.C. C ON S. DT.C O.K.	a)
132KV S/stn.	33kv IOC Fdr.	D.C. Supply ON & PT fuse O.K.	
	33KV Exide fdr1		
	ped by UFR Stg-III set at 47.60 Hz with ns time delay for load relief.		
	33kv khudiram nagar		
Old Haldia	33KV Exide fdr2	D.C. Supply ON & PT fuse O.K.	
132KV S/stn.	33KV IOC pipe line	b.c. supply old & F1 luse o.k.	
	33KV Glychem		
NIZ 132KV S/stn.	33KV Basudebpur	D.C. Supply ON & PT fuse O.K.	

West Bengal State Electricity Transmission Company Limited

(A Government of West Bengal Enterprise)

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



OFFICE OF THE CHIEF ENGINEER STATE LOAD DESPATCH CENTRE

Memo No.: SLDC/How/ 146 / 2787.

Dated: 07/ 08/ 2015.

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

Sub:Status of UFRs for July-2015 under BKTPP islanding.

Dear Sir,

Eenclosed herewith please find the healthiness report for July-2015 i.r.o. UFRs put into operation under BKTPP Islanding Scheme at 220KV Gokarna and Satgachia S/stns. of WBSETCL. This is for your kind information please.

Thanking you.

Enclo: As stated.

Yours faithfully,

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

UFR Status at 220 KV Satgachia and Gokarno S/Stn. under BKTPP Islanding for JULY-2015.

hkarno 220 KV S/stn. FR Stg-I set at 47.90 , 250ms time delay) , 250ms time delay) kkarno 220 KV Sgtpp #1&2 132 KV Rampurhat # (UFR Stg-II set at 5.60Hz, 500ms time delay) kkarno 220 KV S/stn. (UFR Stg-II set at 6.60Hz) 132 KV Rampurhat # (UFR Stg-II set at 7.50Hz, 500ms time delay) 132 KV Rampurhat # 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 132 KV Babaninagar # D.C. Supply ON & PT fuse O.K. 132 KV Bandel # D.C. Supply ON & PT fuse O.K. 132 KV Mahachanda #1&2 132 KV Mahachanda #1&2 133 KV Mahachanda #1&2 134 KV Kinannyan # 135 KV Mahachanda #1&2 136 KV Mahachanda #1&2 137 KV Mahachanda #1&2 138 KV Mahachanda #1&2 138 KV Mahachanda #1&2 D.C. Supply ON & PT fuse O.K. 139 KV Mahachanda #1&2 D.C. Supply ON & PT fuse O.K. 130 KV Mahachanda #1&2 D.C. Supply ON & PT fuse O.K. 131 KV Mahachanda #1&2 D.C. Supply ON & PT fuse O.K. 132 KV Mahachanda #1&2 D.C. Supply ON & PT fuse O.K. D.C. Supply ON & PT fuse O.K.			33 KV Nadanghat #	Hz, 750ms time delay)
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 132 KV Rampurhat # 132 KV Rampurhat # 132 KV Nabagram # 132 KV Mabaninagar # 132 KV Bhabaninagar # 132 KV Bandel # 132 KV Khannyan # 132 KV Mahachanda #1&2 Nil B.C. Supply ON & PT fuse O.K. 33KV Kusumgram # 1&2 D.C. Supply ON & PT fuse O.K.		D.C. Supply ON & PT fuse O.K.	33 KV Hatgobindapur #	(UFR Stg-III set at 47.5
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 132 KV Rampurhat # 132 KV Rampurhat # 132 KV Nabagram # 132 KV Mabaninagar # 33 KV Bhabaninagar # 33 KV Bandel # 132 KV Khannyan # 132 KV Mahachanda #1&2 Nil Healthiness D.C. Supply ON & PT fuse O.K. Supply ON & PT fuse O.K. D.C. Supply ON & PT fuse O.K. D.C. Supply ON & PT fuse O.K.			33KV Kusumgram # 1&2	
Name of Fdrs. connected with UFR. 120 KV Sgtpp #1&2 132 KV Rampurhat # 132 KV Kulii # 132 KV Kandii # 2 132 KV Bandel # 132 KV Khannyan # 132 KV Mahachanda #1&2 Nii				time delay)
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 33 KV Bhabaninagar # 33 KV Bhabaninagar # 132 KV Bandel # 132 KV Khannyan # 132 KV Mahachanda #1&2 D.C. Supply ON & PT fuse O.K.			N:I	(UFR Stg-II set at 500ms
Name of Fdrs. connected with UFR. 120 KV Sgtpp #1&2 132 KV Rampurhat # 132 KV Rampurhat # 132 KV Nabagram # 132 KV Nabagram # 132 KV Bhabaninagar # 132 KV Bandel # 132 KV Bandel # 132 KV Mahachanda #1&2 D.C. Supply ON & PT fuse O.K. 132 KV Mahachanda #1&2 D.C. Supply ON & PT fuse O.K.				Satgachia 220 KV S/stn
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 132 KV Rampurhat # 132 KV Rampurhat # 132 KV Rampurhat # 132 KV Rampurhat # 132 KV Bhabaninagar # 33 KV Bhabaninagar # 132 KV Bandel # 132 KV Khannyan # D.C. Supply ON & PT fuse O.K.			132 KV Mahachanda #1&2	delay)
Name of Fdrs. connected with UFR. 120 KV Sgtpp #1&2 132 KV Rampurhat # 132 KV Rampurhat # 132 KV Nabagram # 132 KV Kuli # 33 KV Bhabaninagar # 132 KV Bandel # 132 KV Bandel # 132 KV Bandel # 132 KV Bandel # 134 KV Bandel # 135 KV Bandel #		C.C. Supply Old & Filluse O.K.	132 KV Khannyan #	47.90Hz, 250ms time
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 132 KV Rampurhat # 33 KV Nabagram # 33 KV Bhabaninagar # 33 KV Bhabaninagar # D.C. Supply ON & PT fuse O.K. 33 KV Kandi # 2 D.C. Supply ON & PT fuse O.K.		D.C. Simply ON 8. DT fire O.K	132 KV Bandel #	Satgachia 220 KV S/stn (UFR Stg-I set at
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 D.C. Supply ON & PT fuse O.K. 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 33 KV Nabagram # 33 KV Bhabaninagar # D.C. Supply ON & PT fuse O.K.		D.C. Jupply Cit of F. Luse Cit.	33 KV Kandi # 2	47.50Hz, 750ms time delay)
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 D.C. Supply ON & PT fuse O.K. 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 33 KV Nabagram #		D C Supply ON 8. BT fire O K	33 KV Bhabaninagar #	(UFR Stg-III set at
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 D.C. Supply ON & PT fuse O.K. 132 KV Rampurhat # D.C. Supply ON & PT fuse O.K. 33 KV Nabagram #			132 KV Kuli #	Gokarno 220 KV S/stn.
Name of Fdrs. connected with UFR. 220 KV Sgtpp #1&2 D.C. Supply ON & PT fuse O.K. 132 KV Rampurhat #		D.C. Supply ON & PT fuse O.K.	33 KV Nabagram #	47.60Hz, 500ms time delay)
Name of Fdrs. connected with UFR. Healthiness 220 KV Sgtpp #1&2 D.C. Supply ON & PT fuse O.K.			132 KV Rampurhat #	Gokarno 220 KV S/stn.
Name of Fdrs. connected with UFR. Healthiness		D.C. Supply ON & PT fuse O.K.	220 KV Sgtpp #1&2	Gokarno 220 KV S/stn. (UFR Stg-I set at 47.90 Hz, 250ms time delay)
	Remarks	Healthiness	Name of Fdrs. connected with UFR.	Name of Sub-station

Annexure-B.23

ISLANDING SCHEME of Bandel TPS

PREFACE

- ➤ Consequence to the last Grid Disturbance on 30th July'12 in NR and 31st July'12 in NR,ER & NER an enquiry committee was constituted by the MOP,GOI.
- ➤ Enquiry committee recommended for Implementation of Islanding Scheme.
- ➤ Islanding Scheme of BkTPP and BTPS based on Under frequency was proposed by State level committee (comprising of WBSEDCL, WBSETCL, WBPDCL, DPL representatives) in ERPC forum and accepted by ERPC. Accordingly draft Islanding Scheme of BkTPP & BTPS was prepared. Islanding scheme of BKTPP was finalised after thread bare discussion with concerned stakeholders & OEMs.
- > Islanding Scheme at BkTPP was implemented on 31st March'15 as per approved scheme and is in service.

PREFACE Contd.

- \succ Discussion held in 30th TCC meeting , dtd 20.6.15 regarding implementation of BTPS islanding .
- ➤ WBPDCL pointed out some constraints regarding the first draft of Islanding Scheme of BTPS.

Constraints of First Draft of Islanding Scheme:

- 1. Maximum & Minimum load in Islanded condition is insufficient as in initial proposal.
- 2. Presently it is impossible to keep unit #1 to #4 in islanding scheme because
 - a. The main & auxiliary governor is in manual mode.
 - b. Performance of main & auxiliary governor is not satisfactory.
 - c. No DCS is available.
 - d. Coal Mill reliability is poor.
- e. Boiler management system is not available.
- f. HP-LP Bypass system is not available for steam dumping during load throw off.

PREFACE Contd.

- > TCC advised to review at lower forum for making BTPS Islanding scheme feasible.
- \succ WBPDCL,WBSETCL &WBSLDC jointly discussed , reviewed and prepared feasibility plan of BTPS Islanding Scheme with U#5 only for the following reasons.

Glimpses of Revised Islanding Scheme:

- Total load under Islanded condition is increased to Maxm 225 MW & Minm 105 MW.
- 2. After successful EE R&M of U#5
 - a) HP-LP Bypass may be used for 30% steam dumping
 - b) Unit operation under CMC
- 3. Reliability of keeping single unit (only unit#5) for Islanding scheme is 50% (considering success or failure).

LOAD DISTRIBUTION (Bandel TPS)

SI. No.	Name of S/S	Summer Peak Load	Winter Off-Peak Load
1)	Khanyan 132 KV S/S	40 MW	24 MW
2)	Chanditala 132 KV S/S	45 MW	27 MW
3)	Bighati 132 KV S/S	25 MW	15 MW
	Total:	110 MW	66 MW

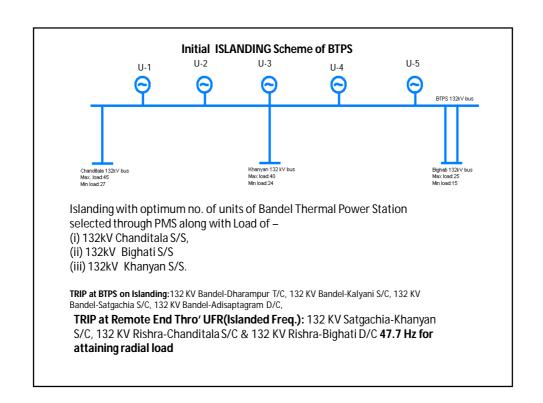
Islanding frequency: 47.7 Hz with time delay 500 m. Secs.
Units of BTPS will be selected by PMS with maximum load of 110 MW
Load balance by under frequency relay:

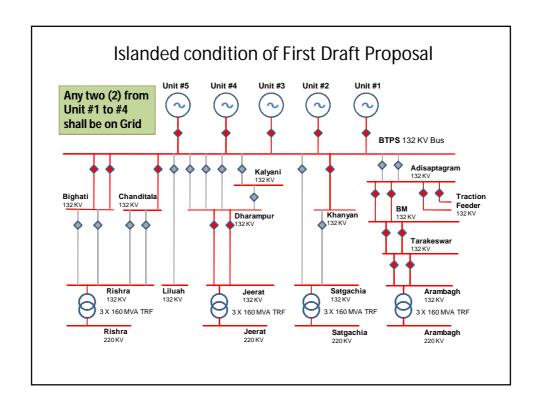
1st Stage: 47.5 Hz (instantaneous)

Pre-selected feeders cut-off (33kV).

2nd Stage: 47.3 Hz (instantaneous)

Pre-selected feeders cut-off (33kV).

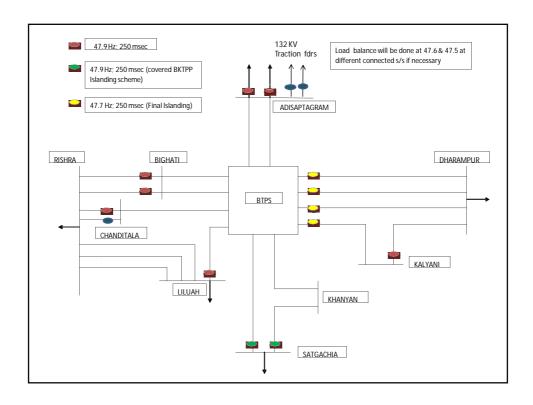




Revised LOAD DISTRIBUTION (Bandel TPS)

Summer Season: March to October. Winter Season: November to February.

SI.	Name of S/S	Summer I	Load (MW)	Winter L	Load (MW)	
No.	Ivanic of 3/3	Peak	Off-Peak	Peak	Off-Peak	
1.	Chanditala	50	25	35	16	
2.	Bighati	35	20	25	13	
3.	Adisaptagram	105	45	90	40	
4.	Khanyan	35	20	25	12	
5.	Kalyani			40	24	
	Total	225	110	215	105	



CREATION OF RADIAL LOAD ON BTPS

Radial load will be created by the following UFR Stg-I operation (set at freq. 47.90 Hz with 250 ms time delay):

i) At Satgachia S/S:

 $132\,\mbox{KV}$ BTPS & Khanyan Ckt will be tripped by UFR Stg-I under BKTPP islanding scheme.

ii) At Chanditala S/S:

132 KV Rishra Ckt # 1,2 will be tripped by UFR Stg-I.

iii) At Bighati S/S:

132 KV Rishra Ckt # 1,2 will be tripped by UFR Stg-I.

iv) At Adisaptagram S/S:

(a) 132 KV Belmuri Ckt # 1,2 will be tripped by UFR Stg-I.

(b) 132 KV side Traction Transformer#1,2 will be tripped by UFR Stg-I.

v) At Kalyani S/S (during winter season):

132 KV Dharampur Ckt will be tripped by UFR Stg-I.

vi) At Liluah S/S:

132 KV BTPS Ckt will be be tripped by UFR Stg-I.

Thus at freq. 47.90 Hz (250 ms time delay), Khanyan, Chanditala, Bighati, Adisaptagram & Kalyani(during winter only) will be radial on BTPS bus.

CREATION OF BTPS ISLAND

BTPS will be islanded through UFR Stg-II operation (set at freq. 47.70 Hz with 250 ms time delay) as follows:

i) At BTPS:

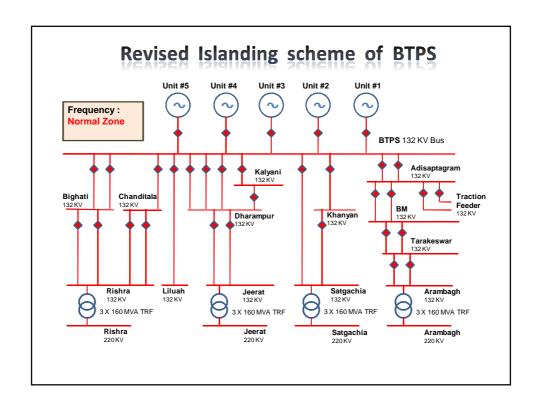
- (a) 132 KV Dharampur Ckt # 1, 2, 3 will be tripped by UFR Stg-II.
- (b) 132 KV Kalyani Ckt will be tripped by UFR Stg-II (during summer only).
- (c) During winter, UFR Stg-II i.r.o. Kalyani Ckt will be kept off.

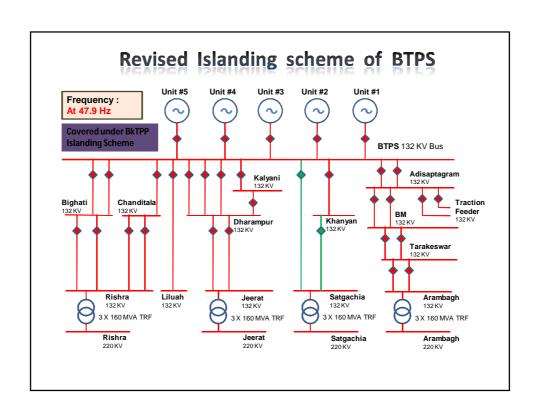
Thus creation of BTPS island will take place at freq. 47.70 Hz.

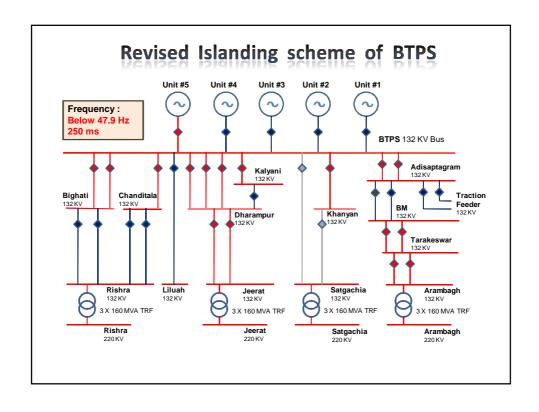
Islanded BTPS will get radial load of Chanditala / Bighati / Adi/ Khanyan S/Stn during summer & of Chanditala / Bighati / Adi/ Khanyan/ Kalyani S/Stn during winter. Considering present summer & last winter load scenario of these Sub Stns, maximum and minimum load of the islanded system will be:

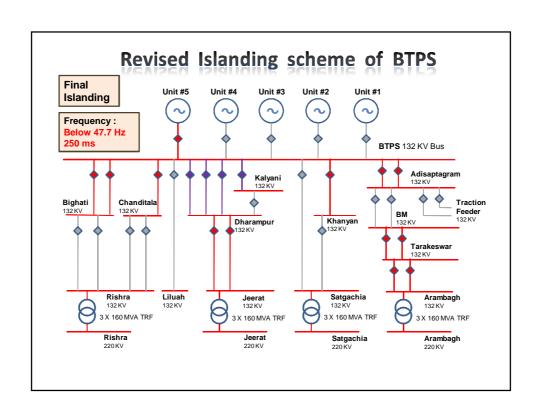
- (a) 225 MW & 110 MW respectively during summer.
- (b) 215 MW & 105 MW respectively during winter.

ISLANDED BTPS SYSTEM U-5 BTPS 132 KV bus 132 KV 132 KV 132 KV 132 KV 132 KV Kalyani Khanyan Chanditala Bighati D/C S/C S/C S/C Kalyani 132KV bus Khanyan 132KV bus Chanditala 132 KV bus Adi 132KV bus Bighati 132KV bus Max: 40 (W) Max load:35(S)/25(W) Maxload:50(S)/35(W) Maxload:105(S)/90(W) Maxload:35(S)/25(W) Min: 24(W) Min load: 20(S)/12(W) Minload: 25(S)/16(W) Minload: 45(S)/40(W) Minload: 20(S)/13(W) BTPS Vth unit will be islanded with following Sub Stns load. 132 KV Chanditala S/S. ii) 132 KV Bighati S/S iii) 132 KV Khanyan S/S 132 KV Adisaptagram S/S. 132 KV Kalyani S/S (During winter only).









SURVIVAL OF ISLANDED BTPS SYSTEM

For the survival of the islanded system, load generation balance is to be done.

a) If the freq. of the islanded system falls, load relief to the tune of 6% of the connected load (i.e. 13 MW) may be provided by UFR Stg-III set at 47.60 Hz with 250 ms time delay.

(UFR Stage – III is to be set at 33 KV fdrs of Chanditala / Bighati / Adi/ Khanyan/ Kalyani (during winter) S/Stns).

b) If the freq. of the islanded system further falls, then another 10% load relief (i.e. 20 MW) may be provided by UFR Stg-IV for load generation balance.

(UFR Stage – IV is to be set at 33 KV feeders at freq. 47.5 Hz with 250 ms time delay)

c) If the freq. of the islanded system rises, PMS of BTPS Vth unit will take necessary action to reduce generation so as to maintain load generation balance.

BILL OF MATERIAL FOR BANDEL ISLANDING SCHEME

	<u>UF RELAY</u>			<u>S</u>	WITCHES		<u>TOTAL</u>	
Sub Stn.	MAIN	STAND BY	IN/OUT Sw	PT Selection <u>sw</u>	ISLANDING Fd Sw	LOAD REJECTION Sw	ON/OFF	3-POLE/2- Posn
BIGHATI	1	1	2	1	4	6	12	1
CHANDITALA	. 1	1	2	1	4	6	12	1
KALYANI	1	1	2	1	4	6	12	1
adisaptagr am	1	1	2	1	4	6	12	1
LILUAH	1	1	2	1	4	6	12	1

Annexuse - B. 24.1

MONITORING OF PROGRESS OF 400 kV D/C STERLITE - JHARSUGUDA T/ L.

SUPPLY PORTION

Sl. No.	Activities	Status	Remarks
1	Release of Tower spotting data & Sag Template Curve	Date of release of Tower spotting data: (please enclose copy) Date of release of Sag Template: (please enclose copy)	1.Tower Spotting data released on dtd.05/07/2015 2 Sag Template released on dtd.05/07/2015
2	Release of Drg. & BOM for Stub (All type of Tower)	Date of release of Drawing For Stub: (please mention type & quantity of stub) Date of release of BOM for Stub: (please mention type & quantity of stub)	Structural Drawing & BOM released on 01/08/2015, DA+0 =15Nos, DA+3=05Nos,DA+6=06Nos, DC+0=08Nos, DC+6 = 03Nos,DC+9=03Nos, DD+0=14Nos,DD+3=03Nos,DD+9=02Nos,DD+18=01Nos, DD+25=01Nos,DD+30=07Nos
3	Release of Structural Drg. & BOM, Shop floor Drg. For all type of Tower	Date of release of Structural/shop floor Drawing : (Please mention type & qty of tower) Date of release of BOM for Tower: (please mention type & quantity of Tower with type of extension)	Not yet released.
4	Release of Drg. for Tower Accessories	Date of release of Drawing for Tower Accessories: (please mention details of accessories & quantities)	Not yet finalised
5	Proto Fabrication and Assembly	Please Give details of proto fabrication and assembly according to the Tower type.	Not yet done
6	Release of apprvd. Proto corrected Drg.	Date of release of approved proto corrected Drawing : (please Mention type of Tower)	Not yet done
7	Release of apprvd. Stringing Chart	Date of release of approved Stringing chart: (if partly approved then please mention section of the line along with location no.)	Not yet released.
8	Manufacturing of Stub and receipt at site	Please mention total required quantity according to the Tower type and status of receipt till date at site of the same. Also mention the schedule of balance quantity.	Total DA =22Nos, DC=14Nos, DD=28Nos Manufacturing of stub P.O. No. SRAIPL/VL/TL/2905-15/01 dtd.19/05/2015 Received til date:DA=06Nos,DC=02Nos,DD=02Nos,Followings are under receipt:DA=10Nos,DC=05Nos,DD=10Nos
9	Manufacturing of Tower and receipt at site	Please mention total required quantity according to the type and status of receipt till date at site of the same. Also mention the schedule of supply for balance quantity.	DA+0 =15Nos, DA+3=05Nos, DA+6 =06Nos, DC+0=08Nos, DC+6 = 03Nos, DC+9=03Nos, DD+0=14Nos, DD+3=03Nos, DD+9=02Nos, DD+18=01Nos, DD+25=01Nos, DD+30=07Nos
10	Approval and Supply of Line Materials- Conductor/ Earth wire/Hardware/Earthing Materials/ Bird Guard / Aviation Light	Please mention total requirement of Line Materials(Conductor/ Earth wire/Hardware/ Earthing Materials/ Bird Guard / Aviation Light): Receipt at site of the above: Schedule of supply of balance quantity.	Not yet finalised

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

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



ERECTION PORTION

l. No.	Activities	Status	Remarks	
1	Route Alignment	A. Please mention Date of finalization of route alignment (along with name of important village/mouza/area etc.) B. Length of finalized route: C. Status of Notification for construction of line	AFinalization of route alignment, 28/07/2015 1) 1.KENAPALI 2. MAHULPALI 3.RANGIAMUNDA 4.KURGA 5.KEPSE 6.HUNDARMAL 7.KIRIPSIRA 8.PORHADIHI 9.SURDA 10.KHARMARBAHAL 11.JAMUNADHIPA 12.TELINGAPALI 13.MAHIPANI 14.NUAPARAH 15.PORHABAHAL 16.DHATAKDIPHA 17.PARDIADIHI 18.KUNDUKELA 19.DEUL 20.KAINTARA B.Length of finalized route :20.345Km C.Section 68 is in hand	
2	1. Date of completion of detailed survey: (if not completed please Mention the completed) length		Completion date of Survey,28/07/2015	
3	Forest Survey	Date of completion of survey: (if not completed please intimate the status) Total forest area involved(in Hectares) with bifurcation according to type of forest land	1.Dt.20/02/2015 2.Forest area involved 11.03Ha.	
4	Inputs for Forest Proposal	1. Date of submission of application. 2. Please mention present status. 3. Anticipated date of clearance. 4. Proposal/ status of Compesatory Aforestation.(please Give details)	1. Application submitted on dt.20/02/2015 2. Odisha State Sl.No.FP/OR/TRANS/10273/2015 dtd.27.02.2015 3.Anticipated date of forest clearance: 15/10/2015 4.Forest Diversion Approval is required for 11.03 Ha	
5	Status of Detailed Survey Report 1. Please mention status of detailed survey done by other agency then men date of submission of detailed survey r		Check survey has been carried out by M/s.SR Associates Infrastructure Pvt.Ltd & Survey report was approved on	
6	Profiling 1.Please metion date of completion of prepar and approval of profiling.		n 1.Date of completion of profiling approval :01/08/2015	
7	Tower spotting 1. Please mention date of completion.		Dt.07/08/2015	
8	Approval of Detailed Survey	Please mention date of approval of detailed survey.	1.Detail Survey was approved on dtd:08/12/2012	
9	Check Survey	Please mention date of completion of Check survey.	1.Date of completion of check survey :28/07/2015	
10	Submission/Approval of Check Survey	Please mention date of submission/ approval of Check survey.	1.Date of completion of profiling approval :01/08/2015	
11	Detailed Soil Investigation	Please mention present status along with no of loction done.	Soil investigation report done for 10Nos out of 64Nos.	
12	Execution - Foundation	Please give location wise status and planning	10Nos of foundation completed & planning to complete by 25th Dec.2015.	
13	Execution- Tower Erection	Please give location wise status and planning	Not yet started.	
14	Execution- Stringing	Please give strech wise status and planning	Not yet started.	
15	Clearance for Power Line Crossing	Please mention no of Power line crossings invloved in the finalised route with voltage level and name of line and ownership of line. Please mention status of submission and approvalof these Power line crossing proposals.	1.Application for power line crossing is not yet applied.	

Sl. No.	Activities	Status	Remarks
16	Clearance for Railway Crossing	Please mention no of Railway crossings and name of route invloved in the final route. Please mention submission and status of approval.	No Railway crossing is there.
17	Statutary Clearance for PTCC(Rail & DOT), including aviation clerance from Defence & Civil aviation .	Please mention date of submission of application. Present status of PTCC proposal.	Not yet submitted
18	Clearance & Handing over of Forest Land	Please mention Present status. Anticipated Date of Clearance & Handing over of Forest Land	 Compensatory afforestation land (CA Land) of 30 acres is arranged by us and after site inspection DFO already issued suitability certificate
19	Clearance from CEA		
20	Clearance from ERLDC		
21	Readiness of Line Bays (Both end)		
22	Notification for Charging		
23	Final checking of Tower and corridor		
24	Testing & Commissioning	Please indicate Schedule/Target date of Testing & Commissioning	Target date of testing & commissioning is dt.15/04/2016

Latest status on non-availability of SCADA data

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

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

The status as updated in last OCC meeting is as given below:

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

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

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

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

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

SI. No.	Name of the RTU location	Latest status	Remarks
1	Ramchandrapur	Reporting is interrupted because of problem in PLCC link between Candil & Ramchandrapur. CVT brusted at Ramchandrapur bay and requires replacement. Arrangement in being done for its replacement.	 RTU's CPU Card sent to Bhubaneswar for repairing. All RTU will restored by Mid March 2015.
2	Jamtara	Jamtara RTU has been shifted in new control room. POWER GRID has been requested to reintegrate the feeders in RTU as integration of additional feeder (new element) in the existing RTU. 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.	Problem still not resolved. None of real time data available since 15/06/15.
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	Kendposi	Reporting is interrupted because of shifting of	
6	Goelkera	Chandil bay at Rajkharsawan. PLCC outdoor equipment has been shifted recently to new location of Chandil bay at RKSN. Some work like termination of co-axial cable will be done soon.	
7	Jadugoda	Co-axial cable faulty at Golmuri (Chandil bay)	

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

S/n	Name of RTU Locations	Latest status
1	Nalco	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. OPTCL has resolved the issue. Some Unit generation polarity will be resolved by Feb 2015.
		Problem still not resolved

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

SL No	Name of station/ Utility	Reason for non reporting	Latest status
Ι	Lalmatia JSEB	MW / MVAR/ OLTC tap of 220/132 KV ICT –II not available	MW/MVAR/OLTC tap of 220/132 KV ICT-II not available. Will be complete during additional feeder integration, no time frame. Problem still not resolved
II	JSPL (Meramundali - 400)	Most of the data not available.	OPTCL informed that they are taking matter with JSPL. Problem still not resolved
IV	DVC		
	Patherdiah,		RTU reached site. commissioned within Feb 2015. (RTU Commissioned but not integrated with SLDC.)
	Kalipahari		RTU reached site. (RTU Commissioned but not integrated with SLDC.)

$vi) \hspace{0.5cm} \mbox{Sub}$ - Stations (220 & 132 kV) Telemetry not provided :

SL No	Name of station/ Utility	Reason for non reporting	Latest status
I	WBSETCL		
	Krishna Nagar	RTU not provided for	RTU integrated.
	Kalingpong	data telemetry	RTU is reporting.
	Karseong		RTU commissioned. Communication link to be provided by WBSETCL.
			WBSETCL requested M/s PGCIL to commissioned one Mux (to be provided by M/s WBSETCL) at Siliguri (220) S/s (PGCIL) for integration of the voice and data of Kurseong substation . POWERGRID agreed for the same and subject to technical feasibility.
			(Data reporting)
	CESC S/s: EM 220 kV CESC: Kasba-132 kV, EM-132 kV Jadavpur,		CESC control centre ICCP will be integrated with WB's new OSI system by April 2015. WBSETCL confirmed that same will available TO OSI system by
	Chakmir, Majerhat and CESC Belur		31 st July 2015.
II	JSEB		
	Hatia New Manique (Chandil)	RTU not provided for data telemetry	Hatia SAS to be integrated with SLDC. No time frame. By Feb 2015 all RTUs will be supplied. No commissioning time frame. Problem still not resolved

	Problem still not resolved
Заріа	supplied. No commissioning time frame.
Japla	By Feb 2015 all RTUs will be

Unavailability Of Critical Real Time data:

Name of station/ Utility	Not reporting since	ERLDC Remarks
MPL	20/03/15	Reporting
SEL	24/06/15	Status and CBs, SOE point of Old switch yard not available since 01/05/15
APNRL	1/5/2015	Work will start soon.
Sasaram (765)	13/05/15	Intermittent
GMR	Since Generation	None of Unit side data and protection signal availableBy mid November, 2015
Gaya (765)	23/05/15	Data started coming.
Lakhisarai (400)	22/05/15	Reporting.
Sagardighi (400)	28/04/15	
Maithon (400)	01/06/15	Data started coming.
Nabinagar (400)	28/12/14	
JUSNL (JSEB): None of data is available	15/06/15	

पावर सिस्टम ऑपरेशन कॉरपोरेशन लिमिटेड

(पावर ग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कम्यानी)



(A wholly owned subsidiary company of Power Grid Corporation of India Limited)



पूर्वी क्षेत्रीय भार प्रेषण केन्द्र, 14, गोल्फ क्लब रोड, टासिगंज, कोलकाला — 700 033 EASTERN REGIONAL LOAD DESPATCH CENTRE, 14, Golf Club Road, Tollygunge, Kokata - 700 033 दुरभाष : 033 2423 5867 फेक्स : 033 2423 5809; Tel.: 033 2423 5867, Fax : 033 2423 5809

CIN: U40105DL2009GOI188682

No: ERLDC/SS&MIS/2015/905千

Dated: 10th August, 2015

To,

- 1. CE, SLDC, BSPTCL, Patna
- 2. CE, SLDC, JUSNL, Ranchi
- 3. CE, CLD, DVC, Maithon
- 4. Sr GM(PS), SLDC, OPTCL, Bhubaneswar
- 5. CE, CLD, WBSETCL, Howrah

Sub: - Import Export ATC/TTC calculation by SLDC

Ref: - ERLDC Letter No ERLDC/SS&MIS/2015/4462 dated 03rd Feb 2015

Sir,

As you are aware that in the 13th FOLD meeting held on 11th December 2014, all SLDCs agreed to take up the process of estimating the import and export ATC/TTC of their respective control areas, on a regular basis. Further, ERLDC also through letter no ERLDC/SS&MIS/2015/4462 dated 03rd Feb 2015 requested SLDCs to calculate and forward their respective TTC, ATC calculations (peak and off-peak) for the summer season of 2015, along with the limiting constraints and PSSE save case file, as per the following schedule:

SLDC	Date of sending results
BSPTCL	28-02-15
JUSNL	28-02-15
DVC	15-02-15
OPTCL	15-02-15
WBSETCL	15-02-15

As per the section 4.1 of Detailed Procedure for relieving congestion in real time operation under Regulation 4 (2) of the Central Electricity Regulatory Commission (Measures to relieve congestion in real time operation) Regulations, 2009 amended in 2013.

"The State Load Despatch Centre (SLDC) shall assess the Total Transfer Capability (TTC), Transmission Reliability Margin (TRM) and Available Transfer Capability (ATC) on its inter-State transmission corridor considering the meshed intra State corridors for exchange (import/export) of power with inter-State Transmission System (ISTS). These figures along with the data considered for assessment of TTC would be forwarded to the respective RLDC for assessment of TTC at the regional level. The details of anticipated transmission constraints in the intra State system shall also be indicated separately."

Registered Office : 8-9, Qutab Institutional Area, Katwaria Sarel, New Delhi -110 016 पंजीकृत कार्यालय : बी-9, कुतब इंस्टीट्यूशनल एरिया, कटवारिया सराय, भई दिल्ली -110 016 However till date no official communication has been received form any SLDC in this regard.

You are once again requested to kindly compute and publish ATC/TTC value on a monthly basis in your website clearly stating the assumptions made and limiting constraints. A sample format for publishing ATC/TTC value may be found at Uttar Pradesh Power Transmission Corporation Limited (UPPTCL) website at following link http://upptcl.org/pdfs/ttc_06042015.pdf.

ERLDC once again assures there necessary cooperation to the SLDC reliability coordinators would be extended for the TTC estimation process.

Thanking you,

Yours faithfully

U.K. Verma GM (ERLDC)

Copy to:-

1) MS ERPC, Kolkata

Maintenance Schedule of Thermal Generating Units for September, 2015 as per LGBR 2015-16

System	Station	I Init	Size (MW)	per	iod	No. of Days	Reason	
System	Station	Cint	Size (M W)	From	To	No. of Days	AC4SUII	
DVC	MTPS	1	210	10.09.15	25.09.15	16	Burner Replacement	
ODISHA	TTPS	3	60	25.09.15	09.10.15	15	Boiler Overhaul	
		4 60 07.09.15 21.09		21.09.15	15	Boiler Overhaul		
IPP	MPL	1	525	06.09.15	10.10.15	30	Annual maintenance	
	APNRL	1	270	08.09.15	22.09.15	15	Annual maintenance	

Addition	Additional Maintenance Schedule as requested by constituents											
NTPC	FSTPS	4	500	01.09.15	05.10.15	35	Annual Overhaul/Maintenance (Shutdown deferment from earlier plan i.e. from 15.08.15 to 25.09.15)					
NTPC	TSTPS	1	500	01.09.15	05.10.15	35	Annual Overhaul/Maintenance					

EASTERN REGIONAL LOAD DESPATCH CENTRE KOLKATA

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 112TH OCC MEETING OF ERPC

Sr. No	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S/D availed BY	Reason	SUBJECT TO CONSENT FROM AGENCY
1	400 KV BARH-GORAKHPUR-1	22/08/15	10:00	22/08/15	18:00	ODB	ER-I	PROPOSED FOR PROTECTION AUDIT AT GKP END AS PER INSTRUCTION OF CC/AM	NLDC
2	401 KV Bus-2 at DGP	22/08/15	08:00	22/08/15	18:00	ODB	ER-II/KOL	Isolator erection	
3	132kV Siliguri - WBSETCL Ckt-1	22/08/15	06:00	22/08/15	15:00	ODB	ER-II/KOL	Bay Maintenance	WEST BENGAL
4	765 Sundaragarh-Dharmajayagarh Line-II	22/08/15	09:00	22/08/15	18:00	ODB	ER- II/ BBSR	Scheme checking of the line which involve tripping of Main and Tie CBs from Protection Relay	NLDC
5	125 MVAR Bus Reactor at Indravati s/s	23/08/15		28/08/15	17:00	ODB	ER- II/ BBSR	Rectification of defects & Punch points	
6	132kV Siliguri - Melli Line	23/08/15	09:00	23/08/15	16.00 hrs	ODB	ER-II/KOL	Bay Maintenance	SIKKIM
7	400 KV BARH-GORAKHPUR-2	23/08/15	10:00	23/08/15	18:00	ODB	ER-I	PROPOSED FOR PROTECTION AUDIT AT GKP END AS PER INSTRUCTION OF CC/AM	NLDC
8	765 Sundaragarh-Dharmajayagarh Line-I	23/08/15	09:00	23/08/15	18:00	ODB	ER- II/ BBSR	Scheme checking of the line which involve tripping of Main and Tie CBs from Protection Relay	NLDC
9	400 KV Bus-2 at DGP	24/08/15	08:00	24/08/15	18:00	ODB	ER-II/KOL	Bus splitting work (Bus pipe dismantling work)	
10	220 KV Main Bus-I at SLG	24/08/15	09:00	27/08/15	17:00 Hrs	OCB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
11	220kV SLG-NSLG Line Ckt-l	24/08/15	09:00	24/08/15		ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
12	220kV SLG-NSLG Line Ckt-II	24/08/15	07:00	24/08/15	18:00 Hrs	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
13	400 KV Jeerat Subhasgram Line	24/08/15	06:00	24/08/15	15:00	ODB	ER-II/KOL	Removal of Bus Pipe from Line Isolator to Circuit Breaker of said Line & CT tan delta measurement	WEST BENGAL
14	MAIN BAY 400 KV Jeerat Subhasgram Line	24/08/15	06:00	31/08/15	15:00	OCB	ER-II/KOL	CB replacement work	WEST BENGAL
15	400kV Sundargarh-Raigarh#2	24/08/15	09:00	24/08/15	18:00	ODB	ER- II/ BBSR	Scheme checking of the line which involve tripping of Main and Tie CBs from Protection Relay	NLDC
16	400 KV MAITHON - MEJIA - 1&2	24/08/15	10:00	29/08/15	17:00	OCC	ER - II	REPLACEMENT OF DEFECTIVE TOWER LEG AT LOC 170	DVC
17	A/R OF BOLANGIR - ANUGUL - I	24/08/15		24/09/15	17:00	ODB	ER - II	OPGW STRININGING WORK	
18	400 kv Bus-4 at DGP	25/08/15		25/08/15	18:00	ODB	ER-II/KOL	Isolator erection	
19	220kV SLG-DLK Ckt-I	25/08/15		25/08/15	13:00 Hrs	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
20	220kV SLG-DLK Ckt-II	25/08/15	14:00	25/08/15	18:00 Hrs	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
21	400KV Keonjhar Line-315MVA ICT #1 Tie Bay (40252CB)	25/08/15	08:00	29/08/15	17:00	OCB	ER- II/ BBSR	Removal of PIR from CB	
22	400kV Sundargarh-Ind Bharat Line	25/08/15	09:00	25/08/15	18:00	ODB	ER- II/ BBSR	Scheme checking of the line which involve tripping of Main and Tie CBs from Protection Relay	NLDC
23	160MVA ICT#2 at SLG	26/08/15	06:00	26/08/15	15:00	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	WEST BENGAL
24	50 MVAR L/R OF 400KV LAKHISARAI-KHLG-1 AT LAKHISARAI (NON SWITCHABLE)	26/08/15	09:00	26/08/15	17:00	ODB	ER-I	FOR TESTING BEFORE WARRANTY. S/D OF 400 KV KHLG - LKR - I WILL BE REQUIRED FOR 10 MTS. EACH TIME FOR ITS ISOLATION AND WHILE TAKING INTO SERVICE.	
25	100MVA ICT#1 at SLG	27/08/15	06:00	27/08/15	15:00	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	WEST BENGAL
26	132 KV SASARAM - KUDRA RLY SECTION OF 132 KV DEHRI - SASARAM -KUDRA RLY - KARAMNASA LINE OF BSPTCL	27/08/15	08:00	28/08/15	16:00	ODB	ER-I	FOR CROSSING WORK OF 765KV GAYA-VARANASI T/L	BIHAR
27	400KV NPRN-NSLG-1	27/08/15	10:00	27/08/15	11:00	ODB	ER-I	FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR	
28	400KV NPRN-NSLG-2	27/08/15		27/08/15	13:00	ODB	ER-I	FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR	
29	401 kv Bus-4 at DGP	28/08/15	08:00	28/08/15	18:00	ODB	ER-II/KOL	Bus 4 CVT Erection and commissioning	
30	220 KV Main Bus-II at SLG	28/08/15		31/08/15	17:00 Hrs	OCB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
31	220kV SLG-NSLG Line Ckt-I	28/08/15		28/08/15	13:00 Hrs	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
32	220kV SLG-NSLG Line Ckt-II	28/08/15		28/08/15	18:00 Hrs	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
33	412 Bongaigaon-1 Main Bay New Siliguri	28/08/15	8.00 hrs	28/08/15	16.00 hrs	ODB	ER-II/KOL	Replacement of CT due to oil seapage	NLDC

March Marc			1		1		ı	1	FOR DETROCITING OF OLD 400 MANA IOT 4 DV MENA 4 O MANA IOT 4. THE	
22 22 DE PEUT	2.4	100 MANA ICT 1 AT DONI	20/00/15	00.00	05/10/15	10.00	OCD	ED I	FOR RETROFITING OF OLD 100 MVA ICT-1 BY NEW 160 MVA ICT-1. THE	DILLAD
25	34	100 MVA ICI-T AT PRN	28/08/15	08:00	05/12/15	18:00	OCB	ER-I		BIHAR
Post										
20	35	220 KV BUS-1 AT PRN	28/08/15	10:00	28/08/15	18:00	ODB	ER-I		
13		7/F/A00 W// ICT 1 AT NIDNO		00.00		10.00	ODB	ED I		NI DC
200 AND PART OF THE PROPERTY OF THE PROPER	36	765/400 KV ICI-T AT INRING	28/08/15	08:00	29/08/15	18:00	ODR	EK-I		INLUC
32 ADDIV NORMANSES 269/0815 10-00 269/0815 10-00 068 68-1 FOR TESTING C FUNE SQUARD PREADURE FOR ATTEMPORAL MARKES ARE	37	765 KV NRNC-DHARAMJAIGARH	28/08/15	10:00	28/08/15	18:00	ODB	ER-I		NLDC
19	20	400K/V NIDDMI NICL C 2	20/00/15	14.00	20/00/15	15.00	ODB	ED I		
40 400 KV Ind Sharak-Raigush # 1 28/08/15 07/00 28/08/15 13/09/										
14 200 VISCO MCCALL 2990 MCC 2990 MC	39	400KV NPKN-N3LG-4	20/00/13	10.00	20/00/13	17.00	UDB	ER-I	FOR TESTING OF LINE ISOLATOR OPERATION FROM INTAING MAINESAR	
22 20 NY SIGN KCH 20 20 20 20 20 20 20 2	40	400 KV Ind Bharat-Raigarh # 1	28/08/15	09:00	28/08/15	17:00	ODB	ER- II/ BBSR	For replacement of insulator string at Loc. No 637 in bottom phase.	NLDC
25 Puress 2 Main Bay New Silipart 290 PM 590 13/97*1 17.00 PM 500 50	41	220kV SLG-DLK Ckt-I	29/08/15	09:00	29/08/15	13:00 Hrs	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
March Marc	42	220kV SLG-DLK Ckt-II	29/08/15	14:00	29/08/15	18:00 Hrs	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	
1.5 2.0 KV BUS_ATFRON 2	43	425 Purnea-2 Main Bay New Siliguri	29/08/15	09:00	13/09/15	17.00 hrs	OCB	ER-II/KOL	Replacement of Circuit Breaker	
200 Vision American Vision Vi	44	132KV DEHRI-KUDRA	29/08/15	08:00	30/08/15	16:00	ODB	ER-I	FOR CROSSING WORK OF 765KV GAYA-VARANASI T/L	BIHAR
20 EV N PRINAMADHEPURA 20 08/15 10:00 29/08	46	220 KM BITS 3 VI DDN	20/00/15	10.00	20/00/15	10.00	ODB	ED I	FOR DISMANTALING OF ICT-1 BAY, 220 KV MAIN BUS-2 ISOLATOR. NO	
200	43	220 KV BU3-2 AT PRIV	29/00/13	10.00	29/06/13	16.00	ODB	EK-I	POWER INTERUPPTION.	
ABCOM V NERN-MALIDA-2	46	220 KV NPRN-MADHEPURA-2	29/08/15	10:00	29/08/15	15:00	ODB	ER-I	FOR NTAMC WORK	BIHAR
132 KV BUS at BRP	47	400KV NPRN-MALDA-1	29/08/15	10:00	29/08/15	11:00	ODB	ER-I	FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR	
Section Sect	48	400KV NPRN-MALDA-2	29/08/15	12:00	29/08/15	13:00	ODB	ER-I	FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR	
132Y BRP-WB-I	40	122 VV DLIC at DDD	20/00/15	12.00	20/00/15	14.00	ODB	ED II/VOI	Reconnection of isolator drop-out of Isolator no. 102-89 M1 and opening	
InfoMMAICT22 at SLG	49	132 KV BUS di BRP	30/06/13	12.00	30/06/13	14.00	ODB	ER-II/KUL	of Isolator No. 103 89 M	
100MVAICEF1 at SLG	50	132KV BRP-WB-I	30/08/15	06:00	03/09/15	15:00	ODB	ER-II/KOL	Isolator retrofitting (Islolator No. 102 -89 L & T) under ADDCAP	WEST BENGAL
ADD KV Serat Subhasyram Line 31/08/15 06:00 31/08/15 15:00 ODB ER-I CT REPLACEMENT WORK (R. PR. LINE CT) OVC	51	160MVA ICT#2 at SLG	31/08/15	06:00	31/08/15	10:00	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	WEST BENGAL
Second Strict Str	52	100MVA ICT#1 at SLG	31/08/15	14:00	31/08/15	15:00	ODB	ER-II/KOL	Replacemnet of Bus Bar relay under ERSS-XII	WEST BENGAL
400 KV JRR: MEILA 31/08/15 09/00 31/08/15 17/00 00/08 ER-I CT REPLACEMENT WORK (R-PH LINE CT) DVC	53	400 KV Jeerat Subhasgram Line	31/08/15	06:00	31/08/15	15:00	ODB	ER-II/KOL		WEST BENGAL
Sample S	E 4	400 KM ICD MEIIA	21 /00 /15	00.00	21/00/15	17.00	ODB	ED I		DVC
SWITCHABLE SWI	34		31/00/13	09.00	31/06/13	17.00	UDB	ER-I		DVC
56.5 765/400 KV JCT-2 AT NRNC 31/08/15 08:00 31/08/15 18:00 ODB ER-I CONSTN. WORK RELATED TO DAHARAMJAYGARH - 2 LINE NLD.C	55		31/08/15	10:00	01/09/15	18:00	OCB	ER-I		
AOKY NPRN-MUZ-1 31/08/15 14:00 31/08/15 15:00 DDB ER-I FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR NLDC	56		31/08/15	08.00	31/08/15	18:00	ODB	FD.I		NLDC
Second S	57									
220 KV Rourkela - Tarkera # 1 317/88/15 39:00 31/08/15 18:00 ODB ER-II/KOL Line bay AMP and Isolator alignment DVC	50									
400 KV Maithon-Mejia 3 01/09/15 08:00 01/09/15 17:00 0DB ER-II/KOL Line bay AMP and Isolator alignment DVC 401 KV Bus-2 at DGP 01709/15 08:00 01/09/15 18:00 0DB ER-II/KOL Line bay AMP and Isolator alignment DVC 401 KV Bus-2 at DGP 01709/15 08:00 01/09/15 18:00 0DB ER-II/KOL Stability for ICT#5 w.r.t. 220KV Bus II under construction package WEST BENGAL 405 KV IZ-2 AT NRNC 01/09/15 08:00 01/09/15 18:00 0DB ER-II/KOL Stability for ICT#5 w.r.t. 220KV Bus II under construction package WEST BENGAL 406 KV IZ-2 AT NRNC 01/09/15 08:00 01/09/15 18:00 0DB ER-II/KOL Stability for ICT#5 w.r.t. 220KV Bus II under construction package WEST BENGAL 406 KV IZ-2 AT NRNC 01/09/15 08:00 01/09/15 18:00 0DB ER-II/KOL Stability for ICT#5 w.r.t. 220KV Bus II under construction package WEST BENGAL 406 KV IZ-2 AT NRNC 01/09/15 08:00 01/09/15 18:00 0DB ER-II/KOL Stability for ICT#5 w.r.t. 220KV Bus II under construction package WEST BENGAL 406 KV IZ-2 AT NRNC 01/09/15 08:00 01/09/15 18:00 0DB ER-II CRM AND AUGIGNMENT OF LINE SIDE AND AUXILIARY ISOLATOR NLDC 406 KV GAVA-BODHGAYA-1 01/09/15 07:00 03/09/15 18:00 0DB ER-I AMP WORK BIHAR 407 A/R DG 400KV KHILG-BARH-2 01/09/15 07:00 03/09/15 18:00 0DB ER-I REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS BIHAR 406 KV NPRN-BSF-1 01/09/15 07:00 03/09/15 18:00 0DB ER-I FOR INSTALLATION OF DPGW WORK 406 KV NPRN-BSF-2 01/09/15 07:00 03/09/15 18:00 0DB ER-I FOR INSTALLATION OF DPGW WORK 400 KV IZ-1 EB BAY(40B) 01/09/15 07:00 03/09/15 18:00 0DB ER-I FOR INSTALLATION OF DPGW WORK 400 KV IZ-1 EB BAY(40B) 01/09/15 09:00 05/09/15 18:00 0DB ER-I FOR INSTALLATION OF DPGW WORK 400 KV IZ-1 EB BAY(40B) 01/09/15 09:00 05/09/15 18:00 0DB ER-I FOR INSTALLATION OF DPGW WORK 400 KV IZ-1 EB BAY(40B) 01/09/15 09:00 05/09/15 18:00 0DB ER-I FOR INSTALLATION OF DPGW WORK 400 KV IZ-1										
61 401 KV Bus.2 at DGP										
220 KV Bus II Subhasgram	61									DVC
63 500 MVA ICT #5 Subhasgram	62									WEST RENGAL
		J								
	6/1									
	65									
A/R OF 400KV KHLG-MTN-2										
68 A/R OF 400KV KHLG-BARH-2 01/09/15 07:00 30/09/15 18:00 ODB ER-I FOR INSTALLATION OF OPGW WORK 69 400KV NPRN-BSF-1 01/09/15 10:00 01/09/15 11:00 ODB ER-I FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR 70 400KV NPRN-BSF-2 01/09/15 12:00 01/09/15 13:00 ODB ER-I FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR 71 400 KV ICT-1 TIE Bay(408) 01/09/15 09:00 05/09/15 17:30 ODB ER-II/ BBSR PIR Removal works 72 400kV keonjhar Main Bay 01/09/15 09:00 08/09/15 18:00 OCB ER-II/ BBSR PIR removal & CB overhauling 73 221 KV MTN-DHANBAD-II 02/09/15 09:00 02/09/15 18:00 ODB ER-II/KOL CVT Inspection/replacement DVC 74 315MVA ICT- at Farakka 02/09/15 06:00 02/09/15 15:00 ODB ER-II/KOL AMP of ICT and bay equipment. WEST BENGAL 75 400 KV Jeerat Behrampore Li	67									5
69 400KV NPRN-BSF-1 01/09/15 10:00 01/09/15 11:00 ODB ER-I FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR 70 400KV NPRN-BSF-2 01/09/15 12:00 01/09/15 13:00 ODB ER-I FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR 71 400 KV ICT-1 Tie Bay(408) 01/09/15 09:00 05/09/15 17:30 ODB ER-II/ BBSR PIR Removal works 72 400kV Keonjhar Main Bay 01/09/15 09:00 08/09/15 18:00 OCB ER-II/ BBSR PIR removal & CB overhauling 73 221 KV MTN-DHANBAD-II 02/09/15 09:00 02/09/15 18:00hrs ODB ER-II/KOL CVT Inspection/replacement DVC 74 315MVA ICT- at Farakka 02/09/15 09:00 02/09/15 15:00 ODB ER-II/KOL AMP of ICT and bay equipment. JHARKHAND 75 400 KV Jeerat Behrampore Line 02/09/15 06:00 08/09/15 15:00 ODB ER-II/KOL CB replacement work WEST BENGAL 76 <	68									
70 400KV NPRN-BSF-2 01/09/15 12:00 01/09/15 13:00 ODB ER-I FOR TESTING OF LINE ISOLATOR OPERATION FROM NTAMC MANESAR 71 400 KV ICT-I Tie Bay(408) 01/09/15 09:00 05/09/15 17:30 ODB ER-II/ BBSR PIR Removal works 72 400kV Keonjhar Main Bay 01/09/15 09:00 08/09/15 18:00 OCB ER-II/ BBSR PIR removal & CB overhauling 73 221 KV MTN-DHANBAD-II 02/09/15 09:00 02/09/15 17:00 ODB ER-II/KOL CVT Inspection/replacement DVC 74 315MVA ICT- at Farakka 02/09/15 09:00 02/09/15 18:00hrs ODB ER-II/KOL AMP of ICT and bay equipment. JHARKHAND 75 400 KV Jeerat Behrampore Line 02/09/15 06:00 08/09/15 15:00 ODB ER-II/KOL Removal of Bus Pipe from Line Isolator to Circuit Breaker of said Line & CT tan delta measurement WEST BENGAL 76 400 KV Jeerat Behrampore Line 02/09/15 06:00 08/09/15 15:00 ODB ER-II/KOL CB replacement work WEST BENGAL 77 220KV GAYA-DEHRI D/C 02	69									
	71									
73 221 KV MTÑ-DHANBAD-II 02/09/15 09:00 02/09/15 17:00 ODB ER-II/KOL CVT Inspection/replacement DVC 74 315MVA ICT- at Farakka 02/09/15 09:00 02/09/15 18:00hrs ODB ER-II/KOL AMP of ICT and bay equipment. JHARKHAND 75 400 KV Jeerat Behrampore Line 02/09/15 06:00 02/09/15 15:00 ODB ER-II/KOL Removal of Bus Pipe from Line Isolator to Circuit Breaker of said Line & CT 76 400 KV Jeerat Behrampore Line 02/09/15 06:00 08/09/15 15:00 OCB ER-II/KOL CB replacement work WEST BENGAL 76 400 KV Jeerat Behrampore Line 02/09/15 08:00 03/09/15 16:00 ODB ER-II/KOL CB replacement work WEST BENGAL 77 220KV GAYA-DEHRI D/C 02/09/15 09:00 03/09/15 17:00 ODB ER-II FOR CROSSING WORK OF 765KV GAYA-VARANASI T/L BIHAR 78 80 MVAR L/R OF 400KV BSF-NPRN-1 AT BSF 02/09/15 09:00 02/09/15 17:00 ODB ER-II FOR BAY SWAPPING WORK AT BSF 79 315MVA ICT-2 AT JSR 02/09/15 09:00 02/09/15 17:00 ODB ER-II CT REPLACEMENT WORK (B-H TCT) JHARKHAND	72									
74 315MVA ICT- at Farakka 02/09/15 09:00 02/09/15 18:00hrs ODB ER-II/KOL AMP of ICT and bay equipment. JHARKHAND 75 400 KV Jeerat Behrampore Line 02/09/15 06:00 02/09/15 15:00 ODB ER-II/KOL Removal of Bus Pipe from Line Isolator to Circuit Breaker of Said Line & CT WEST BENGAL 76 400 KV Jeerat Behrampore Line 02/09/15 06:00 08/09/15 15:00 OCB ER-II/KOL CB replacement work WEST BENGAL 77 220KV GAYA-DEHRI D/C 02/09/15 08:00 03/09/15 16:00 ODB ER-I FOR CROSSING WORK OF 765KV GAYA-VARANASI T/L BIHAR 78 80 MVAR L/R OF 400KV BSF-NPRN-1 AT BSF 02/09/15 09:00 02/09/15 17:00 ODB ER-I FOR BAY SWAPPING WORK AT BSF 02/09/15 09:00 02/09/15 17:00 ODB ER-I CT REPLACEMENT WORK (B-H TCT) JHARKHAND 79 315MVA ICT-2 AT JSR 02/09/15 09:00 02/09/15 17:00 ODB ER-I CT REPLACEMENT WORK (B-H TCT) JHARKHAND										DVC
Note	74									
77	75	'							tan delta measurement	
78 80 MVAR L/R OF 400KV BSF-NPRN-1 AT BSF 02/09/15 09:00 02/09/15 17:00 ODB ER-I FOR BAY SWAPPING WORK AT BSF 79 315MVA ICT-2 AT JSR 02/09/15 09:00 02/09/15 17:00 ODB ER-I CT REPLACEMENT WORK (B-H TCT) JHARKHAND	76		02/09/15							
79 315MVA ICT-2 AT JSR 02/09/15 09:00 02/09/15 17:00 ODB ER-I CT REPLACEMENT WORK (B-H TCT) JHARKHAND	77		02/09/15	08:00	03/09/15	16:00	ODB			BIHAR
	78		02/09/15							
80 220KV GAYA-BODHGAYA-2 02/09/15 08:00 02/09/15 18:00 ODB ER-I REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS BIHAR	79	315MVA ICT-2 AT JSR	02/09/15	09:00			ODB			
	80	220KV GAYA-BODHGAYA-2	02/09/15	08:00	02/09/15	18:00	ODB	ER-I	REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	BIHAR

_	1	1			1	1	1		,
81	220KV NPRN-MADHEPURA-1	02/09/15	10:00	02/09/15	14:00	ODB	ER-I	FOR FIELD WIRING OF INTERPOSING RELAY OF CB, ISOLATOR FOR NTAMC	BIHAR
00	400KV P I	02/00/15	00.00	00/00/15	17:00	ODD	ED III/ DDCD	WORK AND TESTING OF SAME	
82	400KV Bus-I	02/09/15	08:00	02/09/15	17:00	ODB	ER- II/ BBSR	To rectify Bus Isolator allignment	
83	400KV, 63MVARBaripada- Mendhasal Line2 Reactor AT BARIPADA	02/09/15	08:00	02/09/15	16:00	ODB	ER- II/ BBSR	Commissioning of Cooling fan	OPTCL
84	220 KV Rourkela - Tarkera # 2	02/09/15	09:00	02/09/15	18:00	ODB	ER- II/ BBSR	AMP Work	OPTCL
85	400 KV BINAGURI - PURNEA - III & IV	02/09/15	09:00	02/09/15	16:00	ODB	ER - II	STRINGING OF LILO OF 220 KV D/C SILIGURI - DALKHOLA LINE AT	NOT APPROVED
								KISENGANJ	
86	315MVA ICT-I AT Maithon	03/09/15	09:00	03/09/15	17:00	ODB	ER-II/KOL	42389 Tie bay isolator ICT side Isolator arm replacement (R-Ph)	DVC
87	400 KV BUS-I at Malda	03/09/15	09:00	03/09/15	18:00 hrs	ODB	ER-II/KOL	ISOLATOR ALLIGNMENT UNDER ERSS-XIII.	
88	63 MVAR L/R OF NPRN-NSLG- 3 AT NPRN NON SWITCHABLE	03/09/15	10:00	04/09/15	18:00	ОСВ	ER-I	NGR BY-PASS WORK AND REPLACEMENT OF 390KV LA. LINE WILL HAVE TO BE S/OFF FOR 10 MIN EACH TIME DURING AVAILING AND RETURNING OF S/D	
89	400 KV RNC-NRNC-1	03/09/15	08:00	03/09/15	18:00	ODB	ER-I	CONSTN. WORK RELATED TO DAHARAMJAYGARH -2 LINE	
90	220KV GAYA-DEHRI-1	03/09/15	08:00	03/09/15	18:00	ODB	ER-I	REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	BIHAR
91	765/400kV 1500MVA ICT-1 and 765kV Bus Reactor-1	03/09/15	08:00	03/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	NLDC
92	315MVA ICT#2 AT BARIPADA	03/09/15	08:00	03/09/15	12:00	ODB	ER- II/ BBSR	C & Tan delta measurement at Variable frequency	OPTCL
93	400 KV Rourkela - Sundergarh # 1	03/09/15	09:00	04/09/15	18:00	ODB	ER- II/ BBSR	Removal of PIR in 400 KV Rourkela - Sundergarh # 1 Main Bay (Bay No418)	NLDC
94	400KV MTN-KHG-II Line with LR	04/09/15	09:00	04/09/15	14:00	ODB	ER-II/KOL	NGR by pass implementaion	
95	400 KV BUS-II & 315 MVA ICT-V. at Malda	04/09/15	06:00	04/09/15	15:00	ODB	ER-II/KOL	ISOLATOR ALLIGNMENT UNDER ERSS-XIII.	WEST BENGAL
					00.45	000	5D 11/1/01		
96	132 KV BUS at BRP	04/09/15	08:00	04/09/15	09:15	ODB	ER-II/KOL	opening of isolator drop-out of Isolator no. 102-89 M under ADDCAP	MIECT DENICAL
97	132KV BRP-WB-I	04/09/15	06:00	04/09/15	14:00	OCB	ER-II/KOL	Isolator retrofitting (Islolator No. 102 -89M1) under ADDCAP	WEST BENGAL
98	AC BY-PASS BAY AT SSRM	04/09/15	09:30	04/09/15	17:30	ODB	ER-I	AMP WORK	NLDC
99	220KV GAYA-DEHRI-2	04/09/15	08:00	04/09/15	18:00	ODB	ER-I	REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	BIHAR
100	400 KV Angul- Bolangir Line	04/09/15	09:00	04/09/15	17:00	ODB	ER- II/ BBSR	AMP	NLDC
101	765/400kV 1500MVA ICT-2 and 765kV Bus Reactor-2	04/09/15	08:00	04/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	NLDC
102	400 KV RNC-NRNC-2	04/09/15	08:00	04/09/15	18:00	ODB	ER-I	CONSTN. WORK RELATED TO DAHARAMJAYGARH -2 LINE	
103	220 KV SILIGURI - DALKHOLA - D/C	04/09/15	08:00	14/09/15	17:00	OCB	ER - II	ERECTION OF TOWERS AND STRINING OF BOTH CKT LILO AT KISENGANJ	APPROVED SUBJECT TO REAL TIME CONDITION
104	400 KV MALDA - FARAKKA - I	05/09/15	09:00	05/09/15	15:00	ODB	ER - II	TESTUNG AND COMMISSIONING OF BUS BAR PROTECTION AT MALDA	
105	132KV BRP-WB-II	06/09/15	13:00	09/09/15	11:00	OCB	ER-II/KOL	Isolator retrofitting (Islolator No. 102 -89M1)	WEST BENGAL
106	400KV MTN-RTPS(DVC)	07/09/15	09:00	07/09/15	17:00	ODB	ER-II/KOL	PIR removal of main Bay CB .S/D required for crane movement. Line will be charged through TIE bay when crane movement is not required during PIR removal work	DVC
107	132 KV D/C MUZAFFARPUR - SAMASTIPUR	07/09/15	06:00	07/09/15	19:00	ODB	ER-I	FOR POWER LINE CROSSING OF 400 KV MUZ- SURSAND. CROSSING THE MENTIONED BSPTCL LINE BETWEEN LOC. 7/0 & 8/0 NEAR VILLAGE CHAKVIKHI UNDER KURHANI BLOCK.	BIHAR
108	765KV S/C GAYA-BALIA T/L	07/09/15	08:00	09/09/15	18:00	ODB	ER-I	REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
109	400 KV ICT-I Main Bay(407)	07/09/15	09:00	12/09/15	17:30	ODB	ER- II/ BBSR	PIR Removal works	
110	400 KV Bus Reactor-III	07/09/15	09:00	07/09/15	17:00	ODB	ER- II/ BBSR	AMP	
111	765kV Sundargarh-Dharamjaygarh Line-1	07/09/15	08:00	07/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	NLDC
112	400KV Baripada- Mendhasal CKT-I	07/09/15	07:00	09/09/15	17:00	ODB	ER- II/ BBSR	Tightning of CC ring, VD slip, Broken insulator replacement	OPTCL
113	132 KV MUZAFFARPUR - SAMSTIPUR D/C	07/09/15	06:00	07/09/15	19:00	ODB	ER - I	POWER LINE CROSSING MUZ - SURSAND	BIHAR
114	400KV MTN-RB-I	07/09/15	08:00	08/09/15	17:00	ODB	MPL	MAINTENACE WORK	
115	400 KV MALDA - FARAKKA - II	07/09/15	09:00	07/09/15	15:00	ODB	ER - II	TESTUNG AND COMMISSIONING OF BUS BAR PROTECTION AT MALDA	
116	400 KV Jeerat Behrampore Line	08/09/15	06:00	08/09/15	15:00	ODB	ER-II/KOL	Protection testing after CB replacement and Final charging of the line from Main Bus.	WEST BENGAL
117	400/220 KV,315 MVA ICT-1 AT SSRM	08/09/15	09:30	08/09/15	17:30	ODB	ER-I	AMP WORK OF ICT AND 220 KV SIDE BAY.	BIHAR
118	400/220 KV,315MVA ICT-1 AT JSR	08/09/15	09:30	10/09/15	17:30	OCB	ER-I	02 NO BUSHING AND 02 NO TAN DELTA TEST TAP POSITION (400 KV	JHARKHAND
119	400 KV TISCO-BARIPADA	08/09/15	09:00	08/09/15	17:00	ODB	ER-I	BUSHING) CHANGING FOR REPLACEMENT OF DAMAGED INSULATORS(DAMAGED BY MISCREANTS)	DVC
120	400 KV BSF - BALIA - 1 & 2	08/09/15	08:00	08/09/15	11:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	NLDC
121	765kV Sundargarh-Dharamjaygarh Line-2	08/09/15	08:00	08/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	NLDC
122	400 KV Rourkela - Raigarh # 2	08/09/15	09:00	08/09/15	18:00	ODB	ER- II/ BBSR	AMP Work	NLDC
122	TOO NY NOUINCIA - Naiyarii # Z	00/07/13	07.00	00/07/10	10.00	טטט	FIG. III, DDOK	MINI HOIK	INLDO

123	132KV Kh-Kh line	08/09/15	09:30	08/09/15	17:30	ODB	NTPC	PM works & Relay Testing.	
123	315 MVA ICT - III AT MALDA	08/09/15	09:00	08/09/15	15:00	ODB	FR - II	TESTUNG AND COMMISSIONING OF BUS BAR PROTECTION AT MALDA	
125	132 KV BUS at BRP	08/09/15		09/09/15	11:15	ODB	ER-II/KOL	Reconnection of isolator drop-out of Isolator no. 103-89 M	
126	400 KV BUS - I AT MUZAFFARPUR	09/09/15	08:00	09/09/15	16:00	ODB	ER - I	JACK BUS CONNECTION OF 500 MVA ICT AT MZF	
127	400KV MTN-RB-II	09/09/15	08:00	10/09/15	17:00	ODB	MPL	MAINTENACE WORK	
128	400 KV MALDA - PURNEA - II	09/09/15	09:00	09/09/15	15:00	ODB	ER - II	TESTUNG AND COMMISSIONING OF BUS BAR PROTECTION AT MALDA	
129	132KV BRP-WB-II BIRPARA	10/09/15	06:00	14/09/15	15:00	ODB	ER-II/KOL	Isolator retrofitting (Islolator No. 103 -89 L & T) under ADDCAP	WEST BENGAL
129	132KV DRP-VVD-II DIRPARA	10/09/13	00.00	14/09/13	13.00		LK-II/KOL	CSD commissioning along with its test and painting work of emulsifier	
130	500 MVA ICT#5 Subhasgram	10/09/15	06:00	10/09/15	15:00	ODB	ER-II/KOL	pipe lines	WEST BENGAL
131	400/220 KV, 315 MVA ICT-2 AT SSRM	10/09/15	09:30	10/09/15	17:30	ODB	ER-I	AMP WORK OF ICT AND 220 KV SIDE BAY.	BIHAR
132	220 KV ARA - KHAGAUL - 1 & 2	10/09/15	08:00	10/09/15	11:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	BIHAR
133	400 KV BUS-I (OCB)	10/09/15	09:00	10/09/15	17:00	OCB	ER- II/ BBSR	construction work for connection of ICT- III 400 KV bay to the Transformer intake point	
134	400kV 125MVAR Bus Reactor-1	10/09/15	08:00	10/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	
135	400KV D/C Baripada-Mendhasal line-I & II	10/09/15	08:00	10/09/15	17:00	ODB	ER- II/ BBSR	Rectification of Low ground clerance	OPTCL
136	125 MVAR B/R-2 AT NPRN	10/09/15	10:00	10/09/15	18:00	ODB	ER-I	390 KV LA REPLACEMNT WORK.	
137	125MVAR B/R-1 & 63MVAR L/R OF 400KV PTN- KISHANGANJ-2 AT PTN	10/09/15	09:00	15/09/15	17:30	ODB	ER-I	FOR ERECTION OF TIE BAY OF 125MVAR B/R-1 & 63MVAR KISHANGANJ L/R-2 AT PTN	
138	400 KV PATNA - BARH - 1 & 2	10/09/15	08:00	10/09/15	11:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	NLDC
139	400kV 125MVAR Bus Reactor-2	10/09/15	08:00	10/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	INCO
140	400KV Baripada- Mendhasal CKT-II	10/09/15	07:00	11/09/15	17:00	ODB	ER- II/ BBSR	Tightning of CC ring, VD slip, Broken insulator replacement	OPTCL
140								Removal of PIR in 400 KV Rourkela - Chaibasa # 1 Main Bay (Bay No	OI TCE
141	400 KV Rourkela - Chaibasa # 1	10/09/15	09:00	11/09/15	18:00	ODB	ER- II/ BBSR	416)	
142	400 KV MALDA - FARAKKA - I	10/09/15	09:00	25/11/15	17:00	OCB	ER - II	UPGRADATION TO HTLS CONDUCTOR	WEST BENGAL HAS NOT GIVEN CONSNET IN OCC. SUBJECT TO WEST BENGAL AND NLDC CONSENT
143	400KV Maithon Mejia-II Line	11/09/15	09:00	11/09/15	14:00	ODB	ER-II/KOL	Line bay AMP	DVC
144	400kV BUS-2 AT GAYA	11/09/15	10:00	12/09/15	17:00	ODB	ER-I	BAY EXTN. WORK OF GAYA-CHANDWA LINE	
145	400 KV SASARAM -SNT, 400 KV SARNATH - ALD & 400 KV SASARAM - ALD T/L	11/09/15	10:00	11/09/15	13:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	NLDC
146	400kV Sundargarh-Ind Bharat Line	11/09/15	08:00	11/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	NLDC
147	400 KV BUS REACTOR - 2 AT MPL	11/09/15	08:00	11/09/15	17:00	ODB	MPL	MAINTENACE WORK	THE O
148	400 KV MALDA - PURNEA - I	11/09/15	09:00	11/09/15	15:00	ODB	ER - II	TESTUNG AND COMMISSIONING OF BUS BAR PROTECTION AT MALDA	
149	400KV Maithon-Jamshedpur	12/09/15	09:00	18/09/15	17:00	ODB	ER-II/KOL	Insulator replacement	
150	400 KV Sgram- Sagardighi Line	12/09/15	06:00	12/09/15	15:00	ODB	ER-II/KOL	CSD commissioning	WEST BENGAL
151	400 KV SASARAM -SNT, 400 KV SARNATH - ALD & 400 KV	12/09/15	10:00	12/09/15	13:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	NLDC
152	SASARAM - ALD T/L 400KV LILO Baripada- Kharagpur Line	12/09/15	07:00	12/09/15	17:00	ODB	ER- II/ BBSR	Tightning of CC ring, Broken insulator replacement	
153	400 KV BUS - I AT MUZAFFARPUR	12/09/15	08:00	12/09/15	16:00	ODB	ER - II/ DD3K	JACK BUS CONNECTION OF 500 MVA ICT AT MZF	
154	400 KV MPL - RANCHI - I	12/09/15	08:00	14/09/15	17:00	ODB	MPL	MAINTENACE WORK	
155	132KV Main Bus Malda	12/09/15	06:00	12/09/15	10:00	ODB	ER - II	Replacement of 89A isol.	WEST BENGAL
156	400kV BUS-1 AT GAYA	13/09/15	10:00	14/09/15	17:00	ODB	ER-II	BAY EXTN. WORK OF GAYA-CHANDWA LINE	WEST DENGAL
157	400 KV MLD-FKK-I	14/09/15	09:00	14/09/15	18:00 hrs	ODB	ER-II/KOL	Bus-bar augmentation under ADDCAP	
158	400 KV SSRM - NABINAGAR - 1 & 2	14/09/15	10:00	14/09/15	13:00	ODB	ER-II/KOL	LINE IMPEDANCE MEASUREMENT	
158	400 KV SSRWI - NABINAGAR - 1 & 2 400kV Sundargarh-Rourkela Line-1	14/09/15	08:00	14/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	NLDC
160	400KV Sundargam-Rourkeia Line-1 400KV LILO Baripada- Keonjhar Line	14/09/15	07:00	14/09/15	17:00	ODB	ER- II/ BBSR	Tightning of CC ring, Broken insulator replacement	INLUC
161	220 KV Bus - I	14/09/15	07:00	14/09/15	17:00 18:00	ODB	ER- II/ BBSR	AMP Work	
162	132 KV BUS BIRPARA	15/09/15	08:00	15/09/15	09:15	ODB	ER-II/KOL	opening of isolator drop-out of Isolator no. 105-89 M	
163	132 KV SIDE OF ICT-I AT BIRPARA	15/09/15	06:00	17/09/15	15:00	OCB	ER-II/KOL	Isolator retrofitting (Islolator No. 105 -89 M)	WEST BENGAL
164	220 KV Bus I Subhasgram	15/09/15	06:00	15/09/15	15:00	ODB	ER-II/KOL	Bus Isolator hot spot rectification of 207, 209, 210 line.	WEST BENGAL
165	400 KV JSR - APNRL-2	15/09/15	09:00	15/09/15	17:00	ODB	ER-II/KOL	AMP WORK OF BAY EQUIPMENTS A JSR.	APN
166	765 KV SASARAM - FATEHPUR LINE	15/09/15	09:00	15/09/15	11:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	NLDC
167		15/09/15	08:00	15/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	NLDC
107	400kV Sundargarh-Raigarh#2	13/09/15	00:00					400KV HV side Y-ph Bushing replacement & Tan delta measurement at	
168	315MVA ICT#1 AT BARIPADA	15/09/15	07:00	19/09/15	17:00	ODB	ER- II/ BBSR	variable frequency	OPTCL

169	400kV S/C Rengali-Indravati	15/09/15	08:00	16/09/15	18:00	ODB	ER-II,Odisha, Angul	For completion of stringing for the power line crossing span 95/0-96/0 of 765kV Angul-Jharsuguda Line-I (Part-I) under construction. (Commisioning Target 30.09.2015) & also for OPGW diamonding arrangement for repeater fixing at loc. No. 74/0 & 75/0 of 765kV Angul-Jharsuguda Line-2. Both the work will be taken up simultaneously. Hence S/D of both the lines (400kV S/C Rengali-Indravati & 765kV S/C Angul-Jharsuguda Line-II required simultaneously)	NLDC
170	765kV S/C Angul-Jharsuguda Line-2	15/09/15		16/09/15	18:00	ODB	ER-II,Odisha, Angul	For completion of stringing for the power line crossing span 95/0-96/0 of 765kV Angul-Jharsuguda Line-I (Part-I) under construction. (Commisioning Target 30.09.2015) & also for OPGW diamonding arrangement for repeater fixing at loc. No. 74/0 & 75/0 of 765kV Angul-Jharsuguda Line-2. Both the work will be taken up simultaneously. Hence S/D of both the lines (400kV S/C Rengali-Indravati & 765kV S/C Angul-Jharsuguda Line-II required simultaneously)	NLDC
171	400 KV Kh-Banka#2	15/09/15	09:30	15/09/15	17:30	ODB	NTPC	PM works & Relay Testing.	
172	400KV Barh-Patna LINE#2	15/09/15	09:30	16/09/15	17:30	OCB	NTPC	PM works & Relay Testing	
173	A/R OF RANGPO - BINAGURI - I	15/09/15	09:00	15/10/15	17:00	ODB	ER - II	OPGW STRININGING WORK	TEESTA DID NOT APPROVE
174	400 KV MPL - RANCHI - II	15/09/15	08:00	16/09/15	17:00	ODB	MPL	MAINTENACE WORK	
175	63MVAR L/R OF 400KV PTN-KISHANGANJ-2 AT PTN	16/09/15	09:00	20/09/15	17:30	ODB	ER-I	FOR ERECTION OF LINE SIDE EQUIPMENT & ASSOCIATED PLCC ETC.	
176	400kV Sundargarh-Rourkela Line-2	16/09/15	08:00	16/09/15	17:00	ODB	ER- II/ BBSR	Signal Testing of NTAMC	NLDC
177	220 KV Bus - II	16/09/15	09:00	16/09/15	18:00	ODB	ER- II/ BBSR	AMP Work	
178	132KV Main Bus Malda	16/09/15	06:00	16/09/15	11:00	ODB	ER - II	Replacement of 89A isol.	WEST BENGAL
179	132 KV BUS at BRP	17/09/15	13:00	17/09/15	15:00	ODB	ER-II/KOL	Reconnection of isolator drop-out of Isolator no. 102-89 M1 and opening of Isolator No. 104 89 M	
180	132 KV TBC at BRP	17/09/15	11:00	20/09/15	12:30	OCB	ER-II/KOL	Isolator retrofitting (Islolator No. 104 -89 M)	
181	765kV BUS-1 AT GAYA	17/09/15	10:00	17/09/15	17:00	ODB	ER-I	BAY EXTN. WORK OF GAYA-CHANDWA LINE	NLDC
182	400 KV ST - I AT MPL	17/09/15	08:00	18/09/15	17:00	ODB	MPL	MAINTENACE WORK	
183	765kV BUS-2 AT GAYA	18/09/15	10:00	18/09/15	17:00	ODB	ER-I	BAY EXTN. WORK OF GAYA-CHANDWA LINE	NLDC
184	400KV Maithon Gaya-II line	19/09/15	09:00	19/09/15	14:00	ODB	ER-II/KOL	Line bay AMP	
185	220 kV BUS-1 AT GAYA	19/09/15	10:00	20/09/15	17:00	ODB	ER-I	BAY EXTN. WORK OF GAYA-CHANDWALINE	BIHAR
186	132 KV BUS at BRP	20/09/15	11:00	20/09/15	12:30	ODB	ER-II/KOL	Reconnection of isolator drop-out of Isolator no. 103-89 M	
187	400 KV Indravati Main Bay(410)	20/09/15	09:00	26/09/15	17:30	ODB	ER- II/ BBSR	PIR Removal works	
188	315MVA ICT-II AT Maithon	21/09/15	09:00	21/09/15	17:00	ODB	ER-II/KOL	220KV R-Pole Line isolator replacementin the presence of OEM	DVC
189	100 MVA ICT-I at BRP	21/09/15	06:00	24/09/15	15:00	OCB	ER-II/KOL	132 KV B-Phase Bushing replacement due to tan delta violation	WEST BENGAL
190	63MVAR L/R OF 400KV PTN-KISHANGANJ-1 AT PTN	21/09/15	09:00	29/09/15	17:30	ODB	ER-I	FOR ERECTION OF LINE SIDE EQUIPMENT & ASSOCIATED PLCC ETC.	
191	400 KV RANCHI - MTN -1 , 400 KV RNC -RTPS, 400 KV MTN RTPS	21/09/15	10:00	21/09/15	13:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	DVC
192	Indravati-Rengali line	21/09/15	09:00	21/09/15	17:00	ODB	ER- II/ BBSR	Replacement of Bushing 50MVAR L/R	NLDC
193	400 KV ST - II AT MPL	21/09/15	08:00	22/09/15	17:00	ODB	MPL	MAINTENACE WORK	
194	132KV Malda - WBSETCL-I	21/09/15	06:00	21/09/15	10:00	ODB	ER - II	Line isol. Replacement work	WEST BENGAL
195	220KV Maithon - Kalyaneshwari-1 line	22/09/15	09:00	22/09/15	17:00	ODB	ER-II/KOL	Alignment adjustment of line isolatorand Insulator replacement	DVC
196	220 KV BUS-I at Malda	22/09/15	06:00	22/09/15	15:00	ODB	ER-II/KOL	AMP.	WEST BENGAL
197	765/400 KV 1500 MVA ICT AT SSRM	22/09/15	09:30	22/09/15	17:30	ODB	ER-I	OIL SAMPLING OF ABB MAKE 765 AND 400 KV BUSHINGS AND REPLACEMENT OF 390 KV LA WITH 336 KV LA. DURING THE S/D THERE WILL NOT BE ANY POWER FLOW IN 765 KV PUSAULI -FATEHPUR.	NLDC
198	400 KV JSR - DURGAPUR	22/09/15	09:00	22/09/15	17:00	ODB	ER-I	CT REPLACEMENT WORK (02 NOS. CT)	
199	400 KV MTN-GAYA-2 & 400 KV KODERMA-GAYA-1	22/09/15	08:00	22/09/15	18:00	ODB	ER-I	REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	
200	400 KV RANCHI - MTN -1 , 400 KV RNC -RTPS, 400 KV MTN RTPS	22/09/15	10:00	22/09/15	13:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	DVC
201	50MVAR Rengali LR at Indravati s/s	22/09/15	09:00	28/09/15	17:00	OCB	ER- II/ BBSR	Overhauling of Rengali LR	
202	400 KV Kh-Banka#1	22/09/15	09:30	22/09/15	17:30	ODB	NTPC	PM works & Relay Testing	
203	400KVBarh-Patna LINE#1	22/09/15	09:30	23/09/15	17:30	OCB	NTPC	PM works & Relay Testing	
204	400KV MTN-RB-I	23/09/15	08:00	25/09/15	17:00	ODB	ER-II/KOL	Isolator Arm Replacement, Strung bus repair,oil sampling of Y-Ph line CT (Alstom make).	MPL/ SHUTDOWN MAY BE AVAILED FROM 07/09/ TO 08/09/ AS PER MPL REQUEST
	·			·		·	·		

205	220 KV BUS-II at Malda	23/09/15	06:00	23/09/15	15:00	ODB	ER-II/KOL	AMP.	WEST BENGAL
			08:00		18:00	ODB	ER-I	REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
			09:00		17:00	ODB	ER- II/ BBSR	AMP	NLDC
			08:00		15:00	ODB	WBSETCL	MAINTENANCE WORK	INEDC
	132 KV RANGIT - KURSEONG 400 KV BUS - II AT MPL		08:00			ODB	MPL	MAINTENANCE WORK	
			08:00			ODB	ER-I	REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	DVC
			09:00		18:00	OCB	ER- II/ BBSR	Dry out of Indravati LR	DVC
	Rengali-Jeypore TIE bay at Indravati s/s		09:00		17:00	ODB	ER- II/ BBSR	AMP	NLDC
			09:30		17:30	ODB	NTPC	PM works & Relay Testing	INEDC
	132 KV SILIGURI - KURSEONG		08:00		15:00	ODB	WBSETCL	MAINTENANCE WORK	
			06:00		10:00	ODB	ER - II	Line isol. Replacement work	WEST BENGAL
	400KV MTN-GAYA-1		08:00		18:00	ODB	ER-I	REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	WEST BENGAL
	765 KV GAYA -FATEHPUR		08:00		11:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	NLDC
	400 KV BUS - I AT MPL		08:00		17:00	ODB	MPL	MAINTENACE WORK	INLDC
	132KV Malda - WBSETCL-I		06:00		15:00	ODB	ER - II	Replacement of 89T isol.	WEST BENGAL
219	132KV IVIAIUA - WBSETCL-I	25/09/15	06:00	25/09/15	15:00	ODR	ER - II		MPL/ SHUTDOWN MAY BE AVAILED FROM
220	400KV MTN-RB-II	28/09/15	08:00	30/09/15	17:00	ODB	ER-II/KOL	1. Isolator Arm Replacement and AMP of Line Bay.	
004	ACCUAL DANIGHT AATAL LO ACCUALATAL DEDC	28/09/15	00.00	00/00/45	17:00	000	FR-I	2. Line Bay AMP RECTIFICATION OF EARTH WIRE PEAK AND SNAPPED OPGW	09/09/ TO 10/09/ AS PER MPL REQUEST
	400 KV RANCHI - MTN - I & 400 KV MTN - RTPS		09:00			ODB			DVC
			09:00		18:00	ODB	ER- II/ BBSR	CT Replacement	
	400 KV BUS REACTOR - 1 AT MPL		08:00		17:00	ODB	MPL	MAINTENACE WORK	LUSOT RELIGIE
	132KV Malda - WBSETCL-I		06:00			ODB	ER - II	Replacement of 89A isol.	WEST BENGAL
	220 KV DLK - PURNEA - 1 & 2	29/09/15	08:00	29/09/15	11:00	ODB	ER-I	LINE IMPEDANCE MEASUREMENT	
	400 KV RANCHI - MTN - I & 400 KV DURGAPUR - RTPS D/C LINE OF DVC	29/09/15	09:00	29/09/15	17:00	ODB	ER-I	RECTIFICATION OF EARTH WIRE PEAK AND SNAPPED OPGW	DVC
		29/09/15	09:00	29/09/15	14:00	ODB	ER- II/ BBSR	Testing of 50 MVAR LR & taking in service in LINE	NLDC
228	400 KV RANCHI - MAITHON , 400 KV RANCHI - RAGHUNATHPUR AND 220 KV SANTHALDIH - CHANDIL (OF WBSETCL)	30/09/15	10:00	30/09/15	17:00	ODB	ER-I	RECTIFICATION OF CLEARANCE PROBLEM BETWEEN 400 KV RNC - MTN / 400 KV RNC - RAGHUNATHPUR AND 220 KV SANTALDIH - CHANDIL LINE OF WBSETCL BETWEEN LOC. NO. 196-197 OF POWERGRID T/L	DVC & JHARAKHAND
229	132KV Malda - WBSETCL-I	01/10/15	06:00	01/10/15	11:00	ODB	ER - II	Replacement of 89A isol.	WEST BENGAL
		03/10/15			10:00	ODB	ER - II	Line isol. Replacement work	WEST BENGAL
			06:00		10:00	ODB	ER - II	Line isol. Replacement work	WEST BENGAL
			06:00		15:00	ODB	ER - II	Replacement of 89T isol.	WEST BENGAL
	132KV Malda - WBSETCL-II		06:00		10:00	ODB	ER - II	Replacement of 89A isol.	WEST BENGAL
	132KV Malda - WBSETCL-II		06:00		11:00	ODB	ER - II	Replacement of 89A isol.	WEST BENGAL
201		. 3, . 0, 10	50.00	. 3, . 0, . 0		0.00	"	replacement of a network	WEST BENGAL HAS NOT GIVEN CONSNET IN
235	400 KV MALDA - FARAKKA - I	26/11/15	09:00	31/01/15	17:00	OCB	ER - II	UPGRADATION TO HTLS CONDUCTOR	OCC. SUBJECT TO WEST BENGAL AND NLDC
									CONSENT

Anticipated Power Supply Position for the month of Sep-15

SL.NO		P A R T I C U LA R S	PEAK DEMAND MW	ENERGY MU	
1		BIHAR	10150	WIO	
	i)	NET MAX DEMAND	3100	1687	
	ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	621	97	
	,	- Central Sector	2134	1355	
	iii)	SURPLUS(+)/DEFICIT(-)	-345	-235	
	111)	SURFEUS(+)/ DEFICIT(-)	-343	-233	
2		JHARKHAND			
	i)	NET MAX DEMAND	1150	740	
	ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	672	305	
	11)	- Central Sector	490	286	
	1115	SURPLUS(+)/DEFICIT(-)	12	-149	
	iii)	SURPLUS(+)/ DEFICIT(-)	12	-149	
3		DVC			
,	i)	NET MAX DEMAND (OWN)	2712	1590	
	ii)	NET POWER AVAILABILITY- Own Source	4741	2383	
	11)				
		- Central Sector	393	270	
	1115	Long term Bi-lateral (Export)	1250	900	
	iii)	SURPLUS(+)/DEFICIT(-)	1172	163	
4		ORISSA			
4	:\		4000	2202	
	i)	NET MAX DEMAND	4000	2282	
	ii)	NET POWER AVAILABILITY- Own Source	3000	1990	
	1115	- Central Sector	915	584	
	iii)	SURPLUS(+)/DEFICIT(-)	-85	291	
_		MECT DENICAL			
5		WEST BENGAL			
5.1	.,	WBSEDCL	5/00	2200	
	i)	NET MAX DEMAND (OWN)	5692	3290	
	ii)	CESC's DRAWAL	310	56	
	iii)	TOTAL WBSEDCL'S DEMAND	6002	3346	
	iv)	NET POWER AVAILABILITY- Own Source	3911	2016	
		- Import from DPL	130	23	
		- Central Sector	1687	1157	
	v)	SURPLUS(+)/DEFICIT(-)	-274	-151	
5.2		DPL			
	i)	NET MAX DEMAND	270	223	
	ii)	NET POWER AVAILABILITY	400	246	
	iii)	SURPLUS(+)/DEFICIT(-)	130	23	
5.3		CESC			
	i)	NET MAX DEMAND	1750	990	
	ii)	NET POWER AVAILABILITY - OWN SOURCE	900	621	
		FROM HEL	530	303	
		FROM CPL/PCBL	40	15	
		Import Requirement	280	51	
	iii)	TOTAL AVAILABILITY	1750	990	
	iv)	SURPLUS(+)/DEFICIT(-)	0	0	
6		WEST BENGAL (WBSEDCL+DPL+CESC)			
		(excluding DVC's supply to WBSEDCL's command area)			
	i)	NET MAX DEMAND	7712	4503	
	ii)	NET POWER AVAILABILITY- Own Source	5211	2883	
		- Central Sector	2217	1460	
	iii)	SURPLUS(+)/DEFICIT(-)	-284	-161	
7		SIKKIM			
	i)	NET MAX DEMAND	85	34	
	ii)	NET POWER AVAILABILITY- Own Source	16	5	
		- Central Sector	122	79	
	iii)	SURPLUS(+)/DEFICIT(-)	53	50	
8		EASTERN REGION			
		At 1.03 AS DIVERSITY FACTOR			
	i)	NET MAX DEMAND	18212	10836	
		Long term Bi-lateral	1250	900	
	ii)	NET TOTAL POWER AVAILABILITY OF ER	20532	11696	
		(INCLUDING C/S ALLOCATION)			
	iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER	1070	-40	
		(ii)-(i)			