Minutes of 93rd OCC Meeting held on 10th January, 2014 at ERPC, Kolkata

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

Item no. A.1: Confirmation of minutes of 92nd OCC meeting of ERPC held on 20.12.13

The minutes were circulated vide letter dated 31.12.13 to all the constituents and also uploaded in ERPC website. No comments were received till date.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 92nd OCC meeting.

PART B

Item no. B.1: Re-commissioning of 220kV Balimela-UpperSileru

220kV Balimela-UpperSileru is presently under open condition and hence transfer capability enhancement expected on commissioning the line remains unavailable. However with the synchronization of NEW grid and SR grid the tie line has assumed greater importance and it is essential that the above line be taken into service. As an initial step, it is proposed to recommission the line and take it into service in radial mode. Accordingly, to start with it is essential that OPTCL confirm readiness of 220kV Balimela-Uppersileru for the Odisha portion of the line, so that radial mode of power transfer can take place between ER and SR over the line.

Members may discuss.

Deliberation in the meeting

Odisha informed that, the line is ready for charging from their end.

OCC agreed for re-commissioning of the line and referred the issue to TCC/ERPC for final concurrence.

Since a portion of the line is under SRPC jurisdiction OCC also advised secretariat to refer the issue to SRPC for further necessary action at their end after getting final approval from TCC/ERPC.

Item no. B.2: Availability of data of real time power flow of feeders covered under Under frequency Load shedding scheme(UFLS) and lower relief expected to obtained in real time system operation

a) Availability of data of real time power flow of feeders covered under Under frequency Load shedding scheme (UFLS)

CERC has given order against the petition no 221/MP/2012 "Providing adequate load shedding through automatic under frequency and df/dt relays in the state systems of Northern region and keeping them functional in terms of Regulation 5.2 (n) of the Central Electricity Regulatory Commission (Indian Electricity Grid Code) (First amendment), Regulations 2012 for ensuring security of the Northern regional grid as well as the interconnected Indian grid."

Quote

(vi) The UFRs and df/dt may be replaced with numerical type so that following features can be achieved:

- Storage of past data
- Remote programming and status monitoring at ALDC/SLDC/RLDC
- Remote on-line real time load flow of each feeders for local shedding
- Time synchronization from remote
- Tripping from remote under special protection scheme
- Easy for developing islanding scheme for the constituents by monitoring the relay condition with trip circuit healthy and real time load flow on feeders

(vii) Installation of OPGW / Fiber optic for direct speech (hot line) / data communication with ALDC/SLDC/RLDC

Unquote

In this connection, all SLDCs are requested to make available at ERLDC, the real time power flow data of the feeders earmarked for UFLS. This is essential so that RLDC can assess the relief actually obtained in real time whenever any stage of UFRs operates.

Members may discuss.

Deliberation in the meeting

ERLDC requested for real time telemetry data of feeders connected with UFR. OCC requested all the constituents to comply the CERC guidelines and communicate their experience.

b) Lower relief expected from UFLS in real time system operation

Most of the constituents have furnished maximum MW demands of the feeders, which are covered under frequency load shedding scheme. But as there is time diversity among these demands, actual load relief that would be obtained in real time is likely to be less than the projected quantum. Constituents may therefore furnish the average demands of these identified feeders. Further, since in reality, some of them may be under planned or forced outage, it is essential to connect loads whose aggregated average demand is around 1.5 to 2 times the quantum of the agreed scheme; for each of the 4 stages.

Members may discuss.

Deliberation in the meeting

Constituents felt that setting UFRs at average demand is not feasible due to huge variation in peak and average load. However, ERLDC opined that, the load quantum should be taken as average load for actual load relief.

The house was informed that the relief quantum from UFLs for each constituent in ER was set in line with decision taken in NPC followed by deliberation in previous OCCs. Therefore members felt it necessary to refer the same to NPC for further guidance.

Therefore, OCC requested all members to give their views and decided to take up the issue to NPC for review.

Item no. B.3: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG) Substation

400/220 kV, 2X 315 MVA S/S at Bolangir has been established by Powergrid as part of ISTS system based on the decision taken in Standing Committee meeting held on 08.11.2008 held at Bhubaneswar. This substation was to cater to the local load demand of Bolangir and its adjoining area in Odisha.

The following 220 kV interconnecting lines was envisaged to be established by OPTCL:

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

However, none of these outlets have been commissioned as of now.

In absence of the 220kV interconnection to the Bolangir (PG), the existing 400kV Bolangir (PG) S/S remains as unused transmission assets. OPTCL should implement the above 220kV interconnections with Bolangir(PG) S/S on top priority, enabling proper anchoring of the Meramundali-Jeypore line at Bolangir (PG) to avoid operational problems in the grid.

In 91st OCC, OPTCL informed that one ckt of 220 kV Burla-Bolangir will be made LILO at Bolangir (PG) for which tendering work is under process. Work is in progress for Bolangir(PG) – Bolangir (OPTCL) S/C line and Bolangir(PG) –Kesinga S/C line.

In last OCC OPTCL informed that, tendering work is in progress for all the three lines.

OPTCL may update the status.

Deliberation in the meeting

OPTCL updated the latest status as follows:

- (i) LILO of OPTCL's Burla-Bolangir line at Bolangir (PG).—Work is in progress and it would be completed by June, 2014
- (ii) Bolangir(PG) Bolangir (OPTCL) S/C line.). Retendering is in progress
- (iii) Bolangir(PG) Kesinga S/C line. Work is in progress and it would take one year.

Item no. B.4: Issue of trial operation of transmission elements.

CERC while giving order on petition for "Approval of transmission tariff for LILO of Nalagarh-Kaithal line at Patiala along with associated bays and 125 MVAR Bus Reactor at Patiala and 400/220 kV, 500 MVA ICTs both at Patiala and Malerkotla S/S along with bays under Northern Region Strengthening Scheme-XIV in Northern Region" observed the following in Para 38 of the order:

"We have considered the submissions of both PSPCL and the petitioner. As submitted by the petitioner, the 2009 Tariff Regulations do not define the trial operation in case of transmission elements and the successful test charging is considered as trial operation. The explanation of the petitioner is found to be satisfactory and accordingly, successful test charging by the petitioner is considered as completion of trial operation. However, we direct the RPCs to discuss the issue of trial operation of transmission elements and submit the proposals to CEA who in turn shall submit a consolidated proposal regarding trial operation of transmission elements to the Commission. The staff of the Commission shall study the proposal made by CEA and make suitable changes to the existing Regulation to deal with all such cases in future."

ERPC Secretariat had already submitted its views (circulated in the meeting)

In last OCC all constituents were requested to submit their views by 27-12-2013, so that the same would be communicated to CERC in time.

Members may place their views.

Deliberation in the meeting

DVC has submitted their views. OCC requested all other constituents to submit their views.

Item no. B.5: Consent for changing of all 160 KN insulators in 400 KV D/C (Quad) Siliguri-Purnea Line & Purnea-Saharsha section of 400 KV Purnea-Muzaffarpur Line -- Powerlinks

There were frequent failure of 160 KN insulators in our 400 KV D/C (Quad) Siliguri-Purnea Line and Purnea-Saharsha section of 400 KV Purnea-Muzaffarpur Line. This in turn had made the line unreliable and the entire grid vulnerable. These insulators were supplied by M/S Birla –NGK (Jayashree) during construction of the line in 2005-06. Since then trouble free operation continued upto 2010. Then 2011 onwards, failure had started and it reached alarming stage in December'12 when there were 12 failures in one single month. These insulators were tested at CPRI , Bangalore after removing the same from line. At CPRI, 20% of sample tested had failed. PID testing of these insulators were also carried out and result of PID test was alarming as it shows deviation in most of the strings. From the pattern of failure, it had been observed that only those 160 KN insulators are failing which were installed in between tower no.100 to 300 from Siliguri end. Subsequently, all 160 KN insulators were changed in all tension towers in between loc.100 to 300 fo Siliguri-Purnea Line in March'13 and April'13. As a result of this preventive action, the failure rate had gone down to great extent and there were only five failures during the period May'13 to October'13.

To analyse the root cause of the failure, the supplier M/S Birla-NGK was consulted and samples were tested extensively at the manufacturer's laboratory. During testing, it had been observed that those samples having hair line cracks on them had failed to pass the electrical requirements. In other words, it can be said that hairline cracks are the root cause of the failure of 160 KN insulators. The insulation resistance of these insulators is going down as moisture and other impurities are entering the cracks leading to flash over and failure of the string. This finding is supported by the fact that in all the cases of failure, hairline cracks were observed on the discs.

From above facts, it can be concluded that the present decrease in rate of failure is temporary and it is bound to increase with the passage of time as hairline cracks may develop at any point of time. This will seriously affect the reliability of the line and stability of the entire grid as a whole. As a preventive measure, it is planned to change all remaining 160 KN insulators in 400 KV D/C (Quad) Siliguri-Purnea Line and Purnea-Saharsha section of 400 KV Purnea-Muzaffarpur Line. This is necessary for the stability of the system and these two lines are very important part of the grid particularly of East-North Corridor. Total financial implication will be around Rs. 13 crores considering polymer insulators will be used. We are planning to submit a petition to CERC for capitalization of the expenditure.

In last OCC, members opined that hair line cracks on insulators may be either due to design defects or due to normal adverse effects of operation. So OCC felt that some authority like CPRI must certify whether the present case is within the purview of design defects or because of other reasons. Powerlink was requested to place these details in next OCC so that decision on cost sharing by eastern region constituents, if required in the existing case, could be decided.

However as replacement of insulators is extremely necessary for reliability of the line OCC advised Powerlinks to replace the damaged/defective insulators at the earliest.

Powerlinks may update and members may decide.

Deliberation in the meeting

Powerlink representative was not present in the meeting. Therefore the issue was dropped for the time being.

Item no. B.6: Review of load relief under various stages of UFR

NPC in its 2nd meeting held on 16.07.2013 decided that total load relief based on UFR load shedding of ER is 3320 MW. Accordingly, OCC divided the total load quantum as per present proportionate for ER constituents as given below:

Control Area	Stage –I (49.2 Hz) (MW)	Stage –II (49.0 Hz) (MW)	Stage–III (48.8Hz) (MW)	Stage–IV (48.6Hz) (MW)	Total Relief by Control Area
BSEB	98	99	99	101	397
JSEB	61	62	61	62	246
DVC	134	135.5	136	137	542.5
Odisha	181.5	183.5	184	186	735
WB & CESC	345.5	350	350	354	1399.5
Total	820	830	830	840	3320

It was decided to implement the revised scheme within a month. The latest status updated in last OCC is follows:

- > DVC, WBSETCL, Bihar & CESC: Implemented
- Odisha: Implemented except 3 Sub-stations namely Kesinga, Junagarh & Kalarangi. UFRs have been ordered for those Sub-stations and the same will be installed by February, 2014.
- JSEB: JSEB informed that, load shedding through UFR scheme has been implemented except 64 MW in different stages. This 64 MW load at five new substations have been replaced with existing Dumka and Sahebgunj loads in view of Farakka islanding scheme. For these five substations new UFRs are to be procured and installed. JSEB also informed that, load shedding through Stage-I and II would be implemented by 31st December, 2013 and Stage-III and Stage-IV would be implemented by 15th January, 2014.

OPTCL and JSEB may update the latest status.

Deliberation in the meeting

OPTCL and JSEB informed that, the status is same. ERLDC suggested for keeping UFRs in operational at Dumka and Sahebgunj till the implementation of Farakka islanding scheme. JSEB agreed.

During UFR inspection in OPTCL substations on 2nd January, 2014 it was found that, Tripping Alarm & Annunciation/Facia are not available in some sub-stations of OPTCL for which OPTCL agreed to provide the same.

Item no. B.7: Islanding Scheme of FSTPP, NTPC & BkTPS of WBPDCL

A special meeting on upcoming islanding schemes was held on 6th December, 2013 at ERPC, Minutes of the meeting is circulated in the meeting.

For FSTPP constituent's wise list of equipment required for this islanding scheme was assessed and respective constituents were advised do the needful for early implementation of the scheme.

In last OCC JSEB confirmed that it had already shifted 2 nos BPL make PLCC panels to 132KV Lalmatia S/S. OCC advised JSEB to shift one more BPL make PLCC panel to 132 KV Lalmatia S/S and advised NTPC to take care of two nos PLCC panels stocked at Lalmatia 132 KV S/S of JSEB for onward shifting of the same to 220 KV Lalmatia & Farakka S/S.

JSEB confirmed that Trip Relay available at 132 KV Lalmatia S/S is with 3nos "NO" contacts.

OCC was informed that 2 NOS 48 V battery banks are required to be newly procured and installed. Accordingly Powergrid was requested to arrange the battery bank. Powergrid agreed to explore the possibility and for which it was agreed that concerned officer from Powergrid will

make on site inspection to assess the position in compatibility of the available battery chargers. OCC advised PGCIL to give feedback to ERPC secretariat by 31.12.13

In the meeting JSEB confirmed that, available UFR relays at 132 kV Dumka and Lalmatia S/s are compatible for single phase supply hence CVTs for this purpose are not required at Dumka.

Powergrid, JSEB and NTPC may update the status on FSTPP, NTPC.

Deliberation in the meeting

In 93rd OCC, members informed the islanding scheme would be implemented by March, 2014. The latest status on procurement & installation of equipments is as follows:

Requirement	Where Required	Action	Latest status
PLCC - 4 Panels	 220 kV Lalmatia – 1 220 kV Farakka – 1 132 kV Dumka – 1 132 kV Lalmatia – 1 	 JSEB will shift 3 panels from Sahebgunj/Pakur to 132 kV Lalmatia S/s NTPC will take care of shifting 2 panels from 132 kV Lalmatia S/s to 220 kV Lalmatia and Farakka S/s. JSEB will shift one panel from Sahebgunj/Pakur to 132 kV Dumka S/s Installation of PLCC panels at 220 kV Lalmatia and Farakka S/s will be done by NTPC Installation of PLCC panels at 132 kV Lalmatia and Dumka S/s will be done by JSEB Commissioning of all the four panels 	 JSEB had already shifted 3 nos BPL make PLCC panels to 132KV Lalmatia S/S NTPC to take care of two nos PLCC panels stocked at Lalmatia 132 KV S/S of JSEB for onward shifting of the same to 220 KV Lalmatia & Farakka S/S
2 trip relays (220 V) having at least 03 nos NO contacts	 132 kV Lalmatia – 1 relay 132 kV Dumka – 1 relay 	 will be done by Powergrid. JSEB will provide 2 trip relays. Commissioning will be done by Powergrid. 	• Trip Relay available at 132 KV Lalmatia S/S is with 3nos "NO" contacts.
4 wave traps	 132 kV Lalmatia – 2 132 kV Dumka – 2 	 JSEB will provide four wave traps. JSEB will do the installation and erection Commissioning will be done by Powergrid. 	• JSEB confirmed that wave traps are available with them
2 LMUs	 132 kV Lalmatia – 1 132 kV Dumka – 1 	 JSEB will provide two LMUs. JSEB will do the installation and erection Commissioning will be done by Powergrid. 	• JSEB confirmed that LMUs are available with them
4 UFR relays	 132 kV Lalmatia – 2 132 kV Dumka – 2 	JSEB will provide and erect.Commissioning will be done by Powergrid.	• JSEB confirmed that UFRs are available with them
2 nos 48 V Battery bank with charger	 132 kV Lalmatia – 1 132 kV Dumka – 1 	 Powergrid will arrange 300 Ah battery bank at both stations. JSEB will provide 300 Ah Amara Raja make battery chargers at both stations. 	 Powergrid informed that, estimate for 2X300Ah battery bank will be send to JSEB by 20th January, 2014. One 300 Ah battery charger is already available at 132 kV Dumka s/s. JSEB ensured one 300 Ah battery charger of Amera

			Raja make will be shifted from Sahebgunj/Pakur to 132 kV Lalmatia s/s.
Coaxial Cable - As required at site	132 kV Lalmatia132 kV Dumka	• JSEB will provide and laying/cabling.	

For BkTPS, WBPDCL informed that, efforts are being made to implement BkTPS islanding scheme by 28th Feb, 2014.

WBPDCL may update the status.

Deliberation in the meeting

WBPDCL informed that, specification for the islanding scheme was finalized and PMS tendering is in process. The scheme will be implemented by April, 2014.

Regarding Chandrapura islanding scheme, DVC requested for separate meeting. Accordingly, separate meeting is convened on 31st December, 2013 at ERPC, Kolkata. In the meeting it was understood that CTPS islanding scheme may need some two three months more time.

DVC may update the status.

Deliberation in the meeting

DVC informed that implementation of the scheme needs some more time and tentatively would be in operation by 31st March, 2014. OCC took deep concern on the delay of the same and requested DVC to place the status of progress in detail before TCC for further deliberation.

Item no. B.8: (Item No. B1 of 84th OCC meeting)

In last OCC, Powergrid updated the latest status as given below:

a) Testing and calibration of special energy meter

- Total special energy meters in Eastern Region: 307
- Testing and calibration Completed: 307

b) Automatic Meter Reading (AMR)

- Total stations in Eastern Region: 98
- Survey Completed: 98
- DCU supply started and will be completed by November, 2013.

Server installation at ERLDC, Kolkata is in progress.

In last OCC Powergrid informed that, DCU installation at Subhashgram would be completed within 2 weeks. DCU installation in ER would be completed by 31st March, 2014.

Chuzachen requested to include their station in AMR installation. Powergrid agreed to look into it.

Powergrid may update.

Powergrid informed that, DCUs at Subhashgram and Durgapur have been installed and tested. DCU will be installed at Kolkata soon and data will be reported.

Powergrid agreed to install AMR at Chuzachen.

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

1. Auxiliary Power Supply at Berhampore S/S and other Powergrid S/S- Powergrid

In last OCC WBSEDCL informed that, dedicated auxiliary supply would be provided by 31st Mar, 2014. OCC requested to make the Sukhi feeder as a priority feeder till the dedicated auxiliary supply is available. WBSEDCL agreed.

In the meeting PGCIL also informed that, it is facing unreliable auxiliary supplies in most of their grid substations under JSEB and BSEB control area. Members viewed it seriously as its a long pending issue and already deliberated in OCC forums on previous occasions. OCC with serious concern advised respective members to look into this matter positively with feedback to next OCC.

WBSEDCL, JSEB, BSEB & Powergrid may update.

Deliberation in the meeting

WBSEDCL informed that, Sukhi feeder has been set as a priority feeder. Regarding dedicated power supply, WBSETCL informed that cost details have been sent to Powergrid.

Regarding auxiliary supply at other Powergrid substations, PGCIL informed that, it is still facing unreliable auxiliary supplies in most of their grid substations under JSEB and BSEB control area. In OCC concerned members again assured for improvement in quality of service.

OCC however in view of sensitivity of the issue placed the same before TCC/ERPC for further guidance.

2. Power Supply to Railway TSS from 132 kV Deogarh (JSEB) S/S

In last OCC ERLDC informed that, line configuration and load details are not yet received from JSEB. OCC advised JSEB to give the requisite information within a week. JSEB agreed.

ERLDC, JSEB may update.

Deliberation in the meeting

ERLDC informed that, line configuration and load details are not yet received from JSEB. OCC advised JSEB to give the requisite information within a week. JSEB agreed.

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

In last OCC Powergrid informed that, replacement of the PLCC equipments are in progress. In order to expedite OCC advised Powergrid to interact with their highest authority for arranging PLCC equipments from other regions and advised PGCIL to make the PLCC channel operational before power export to Bagladesh is enhanced to 500 MW. PGCIL agreed.

Powergrid and WBPDCL may update the status.

Powergrid informed that it is not possible to get PLCC equipment from other region for immediate restoration and assured that new PLCC equipment will be restored by March, 2014.

4. Restoration of 220 kV Meramundali - TSTPP -I

In last OCC OPTCL informed that, the line will be charged soon after rectification of breaker problem at Meramundali end, tentatively by 31st March, 2014.

OPTCL may update.

Deliberation in the meeting

OPTCL informed that, the status is same.

5. The following line/Bus reactors are under presently under outage:

- a) 80MVAR Line reactor of 400kV Meramundali-Anugul at Meramundali
- b) 50MVAR Line reactor of 400kV Rourkella-TSTPP-I at TSTPP
- c) 63MVAR Line reactor of 400kV Baripada-Mendhasal-I at Mendhasal

In last OCC, Members updated the latest status as follows:

- a) 80MVAR Line reactor of 400kV Meramundali-Anugul at Meramundali: Oil leakage observed after the reactor was charged on 18th November, 2013, it will be rectified by 31st December, 2013.
- b) 50MVAR Line reactor of 400kV Rourkella-TSTPP-I at TSTPP: Will be charged soon after getting clearance from BHEL.
- c) 63MVAR Line reactor of 400kV Baripada-Mendhasal-I at Mendhasal: Will be in service by January, 2014.

Members may update.

Deliberation in the meeting

Members updated the latest status as follows:

- a) 80MVAR Line reactor of 400kV Meramundali-Anugul at Meramundali: Work is in progress and it will be rectified by 31st January, 2014.
- b) 50MVAR Line reactor of 400kV Rourkella-TSTPP-I at TSTPP: Will be charged within a week.
- c) 63MVAR Line reactor of 400kV Baripada-Mendhasal-I at Mendhasal: Will be in service by January, 2014.

6. Schedule/generation restriction for Chuzachen HEP in view of repeated disturbances.

Keeping in view of present generation in north Sikkim area, OCC restricted the Chuzachen generation to 85 MW in peak time between 18:00 hrs to 21:00 hrs and allowed to generate 99 MW during off peak hours.

ERLDC & Chuzachen may update.

Deliberation in the meeting

Chuzachen, it was informed, is being scheduled as per decision of 92nd OCC meeting.

7. Restoration of Ragunathpur-Ranchi line

In last OCC DVC informed that, the line will be restored by 31st March, 2014.

DVC may update.

Deliberation in the meeting

DVC informed that, the status is same.

8. Bus strengthening at Malda and Birpara consequent to augmentation of transformation capacity at North Bengal – (Item No. B2 of 82nd OCC meeting)

In last OCC it was informed that the work is in progress.

WBSETCL may update.

Deliberation in the meeting

WBSETCL informed that, the work is in progress and it will be completed by January, 2014.

9. Depletion in OPTCL network due to impact of cyclone "Phailin"

In last OCC OPTCL informed that, all transmission lines have been restored except 220 kV Narendrapur-Theruvali and 220 kV Narendrapur-Mendasal lines.

OPTCL may kindly update regarding latest status.

Deliberation in the meeting

OPTCL informed that, 220 kV Narendrapur-Theruvali line will be restored by March, 2014 and restoration of 220 kV Narendrapur-Mendasal line would take another 6 months.

10. Scheduling of power by ERLDC—GMR

OCC advised OPTCL & GMR to settle the issue bilaterally and inform the status in next OCC.

OPTCL and GMR may update.

Deliberation in the meeting

GMR informed that, the issue will be discussed in separate meeting with OPTCL on 20th January, 2014.

Item no. B.10: Commissioning of 220 kV bus bar protection at Ramchandrapur & Chandil substations (JSEB) – (Item No. B13 of 22nd TCC meeting)

In 91st OCC JSEB informed that, bus bar protection at Ramchandrapur GSS is in service from 11th November, 2013.

Regarding LBB at Chandil JSEB informed that, some panels are not included in the proposal hence fresh proposal is being prepared.

In last OCC JSEB informed that, LBB installation at Chandil S/s will be completed by 31st March, 2014.

JSEB may update the latest status.

JSEB informed that, three LBB panels has already been installed at Chandil S/s however LBB panels for Chandil-Ramandrapur line and ICTs are yet to be installed. JSEB informed that, LBB scheme at Chandil S/s will be in service by 31st March, 2014.

After that, ERLDC informed that, in view of repeated tripping and disturbances in JSEB system, ERLDC had filed petitions 72/MP/2013 and 130/MP/2013 with CERC, for ensuring security of the ER grid as well as the interconnected Indian grid. Vide order dt 17-9-13 on petition 72/MP/2013, CERC had directed JSEB to "attend the discrepancies of the entire protection system within 4 months, i.e. by the end of December 2013, failing which it would be considered as non-compliance of Grid Code and the direction of the Commission and action shall be initiated under Section 142 of the Electricity Act 2003, against the heads of SLDC and JSEB".

In the meeting it was given to understand that no significant progress had been made by JSEB towards elimination of their protection system deficiencies.

The issue is referred to TCC for further deliberation.

Item no. B.11: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.

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

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

In 88th OCC, constituents requested for another workshop on this issue. OCC agreed and requested NTPC and CESC to share their scheme in the workshop.

Members may note and comply.

Deliberation in the meeting

Members noted.

Item no. B.12: Status of "Third Party Protection Audit"

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

Members may note and ensure compliance on observations.

Deliberation in the meeting

Members noted.

Item no. B.13: Restricted Governor Mode of Operation --- ERLDC

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

Members may update.

House was informed that, the frequency deviation was reduced after synchronization of NEW grid with SR grid. ERLDC gave a presentation showing the difference in frequency deviation before and after the synchronization and informed that now all the old generators may explore to put their generators under RGMO.

Members noted.

Item no. B.14: Mock Black start exercises in Eastern Region --- ERLDC

i) The status of black start exercises

Mock blackstart of Upper Indravati HEP and Maithon HEP have been done successfully. The pending status as informed in the last OCC meeting is indicated below:

- a) <u>Rengali HEP:</u> End of December'13. Final date need to be intimated.
- b) Upper Kolab HEP: End of December'13. Final date need to be intimated.
- c) <u>Teesta HEP</u>: Blackstart at Teesta HEP could not be done on 23/12/13. Presently, the units are under shutdown upto 06/03/14. Accordingly, Teesta HEP may propose fresh date in March, 2014.
- d) <u>Subarnarekha HEP:</u> In the last OCC meeting, JSEB mentioned that black start would be done on 25/12/13. JSEB may intimate the latest status and furnish the report in case the exercise has been done.

Members may update the status.

Deliberation in the meeting

Members updated the dates as given below:

- a) <u>Rengali HEP:</u> 20th January, 2014.
- b) Upper Kolab HEP: 15th January, 2014.
- c) <u>Teesta HEP:</u> March, 2014.
- d) <u>Subarnarekha HEP:</u> OCC advised JSEB to carry out black start exercise and submit the report. JSEB agreed.

ii) Testing of DG sets meant for Black start

Report regarding test run of DG sets for the month of December, 2013 has not been received from any of the constituents. All test reports may be forwarded to <u>erldc.cal@gmail.com&psdas_psd@yahoo.com</u>.

Constituents may kindly ensure compliance.

Deliberation in the meeting

Members noted.

Item no. B.15: Energy Generation data management from Renewable Energy Sources

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

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

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

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

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

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

SLDCs may note and nominate their Nodal officers as advised.

Members may note and comply.

Deliberation in the meeting

Members noted.

Item no. B.16: Certification through BIS as per IS 18001:2007 to all generating/ transmission units. (Item No. B9 of 84th OCC meeting)

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

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

In 88th OCC NTPC informed that, all NTPC stations in Eastern Region are certified with IS 18001. NHPC informed that, Teesta is also certified with IS 18001.

After that, CESC informed that their stations are certified with IS18001.

Members may note and update the status.

Deliberation in the meeting

Members noted.

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

In line with decision of 89th and 90th OCC meeting, Powergrid has already submitted the soft copy of the formats to be submitted by concern members to initiate the work on pollution mapping.

The formats were already mailed to respective OCC members.

In last OCC Powergrid informed that, till date no data received from the constituents. OCC requested to send the requisite data immediately to <u>sksinghpg@yahoo.co.in</u> with a copy to <u>mserpc-power@nic.in</u>.

Members may please note and comply.

Powergrid informed that requisite data has not been received from constituents except OPTCL. Other constituents agreed to furnish the same at the earliest.

Item no. B.18: Black start and Restoration procedure of Eastern region- ERLDC

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

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

In last OCC, House was informed that, the formats will be made available at ERPC website (<u>www.erpc.gov.in</u>). OCC advised all constituents to send their views as soon as possible.

Till date requisite data has been received only from CESC, Adhunik, Chuzachen and GMR

Members are once again requested to supplement the missing data and furnish any other valuable comments.

Deliberation in the meeting

ERLDC informed that, DVC also has given the views. Remaining constituents were requested to send their views as early as possible.

Item no. B.19: Over voltage protection setting of 400 kV lines in Eastern region - ERLDC

The above issue was discussed in the last OCC meeting, wherein it was finalized that the overvoltage protection settings of all 400kV and 765kV lines in Eastern region would be furnished as per the circulated format.

NAME OF SUBSTATIO N	NAME OF THE LINE	OVERVOLTAGE STAGE-I SETTINGS					
		Local end		Remote end		Difference	
		%	Time	%	Time	%	Time
		setting	Delay(se	setting	Delay(sec	differenc	difference(sec)

The details of settings for pick up /drop off of the over-voltage relays could also be provided.

The above data may be mailed to erldc.cal@gmail.com / psdas_psd@yahoo.com / surojitb@gmail.com

In last OCC ERLDC informed that, in view of commission of new transmission lines the over voltage settings needs to be reviewed to maintain proper coordination. House was informed that, the format will be made available at ERPC website (<u>www.erpc.gov.in</u>). OCC advised all constituents fill the latest status of requisite information and send to ERLDC.

Till date requisite data has been received only from PGCIL ERTS-I, NTPC ER-I, DVC, Adhunik, GMR and Sterlite.

Members may ensure kind compliance.

OCC requested all other constituents to send the settings as early as possible.

Item no. B.20: Status of construction of 400 kV Sterlite-Jharsuguda D/C sections - ERLDC

Sterlite Energy Limited (SEL) is presently connected to ER grid vide LILO of 400kV Rourkella-Raigarh D/C at Sterlite. The above is however only an interim connectivity with final connectivity vide 400kV Sterlite-Jharsuguda D/C (2 Nos). The scope of development of the above dedicated transmission lines for permanent connectivity to ISTS system is under the generation developer. SEL may accordingly intimate the current status of the dedicated portion, as 400kV Jharsuguda substation has been commissioned and commissioning of 765kV switchyard is in progress.

SEL may update the status.

Deliberation in the meeting

Status could not be updated as SEL representative was not present in the meeting.

Item no. B.21: Implementation of SPS for 500MW round the clock power through HVDC Bheramara - ERLDC

A meeting was held on 12/12/13, between CEA, CTU and NLDC at New Delhi which was also attended by ERLDCs, ERPCs, WBSETCL vide video conferencing facility available at ERLDC. In line with the decisions taken in this meeting, in 92nd OCC concerned members were requested to do needful on following

- During short term, nearby generators, viz. Farakka, Kolaghat, Sagardighi and Bakreshwar should absorb MVAR to the maximum extent possible subject to the capability curve limits.
- Line reactors of Behrampur-Jeerat and Jeerat-Bakreshwar at Jeerat end should be converted into switchable bus reactors which may be taken out of service when needed.
- To take measurements with HVDC out of service to identify whether the source of imbalance lies in the HVDC or in the AC system. It was also agreed that ERTS-II should look into the aspect of imbalance.
- Commissioning of 400 kV Sagardighi-Behrampur D/C (Quad)
- Possibility of load anchoring at 400kV Behrampur S/S

Members may update.

Deliberation in the meeting

Powergrid informed that, Line reactor of Behrampur-Jeerat will be converted into switchable bus reactor by March, 2014. Work has been awarded for 400 kV Sagardighi-Behrampur D/C (Quad) and the line will be commissioned within a year.

Item no. B.22: Calculation of FRC by SLDCs due to Anpara (UPCL) Stage-A & B

On 23.12.13, at 06:12hrs due to tripping of Auxiliary ICT (which was providing station auxiliary supply), machines of Anpara UPPCL Stage-A & B tripped. Total Generation Loss was 1340MW.

It may be observed that excepting a few generators, response of the rest is far from satisfactory. In view of the recent formation of a pan-India synchronous grid with consequent pooling of more renewable energy sources into the single interconnection, primary response is absolutely essential to contain the system frequency within a very narrow band around 50 Hz, for controlling line flows within allowable limits.

ERLDC may present the FRC and primary response of each control area/generator.

Members may please discuss.

Deliberation in the meeting

ERLDC gave a presentation and informed that most of the generators are not responding as per the requirement. The data is given in **Annexure-B22**. All the constituents requested to give the data with supporting documents, if given data is incorrect.

Members noted.

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

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

Maximum and minimum voltage observed (data taken from SCADA) Generating stations have been monitored for the following sample dates in the month of Dec 13, during which the maximum and minimum voltages observed

Power Plant	Max and Min Voltage observed for Dec 13 (KV)	Date for monitoring (Dec 2013)
Farakka STPS	430,414	2,3,4
Khalgaon STPS	425,408	2,3,4
Talcher STPS	429,406	3,4
Teesta	426,398	2,8,9
Bakreshwar TPS	417,394	2,4
Kolaghat TPS	429,403	2,9,15
Sagardighi TPS	431,412	2,8
MPL	436, 421(Maithon)	2,8,9,17
Mejia-B	435,422	2,8,9,17
DSTPS	440,423	2,7,8,9
Adhunik TPS	435,417	1,2,4,9
Sterlite	435,417	4,8

Performance analysis:

I. Farakka: Both 210MW & 500MW units at FSTPP, absorbed VAR or injected zero VAR into the Grid for most of the time and hence performance of the units was satisfactory.

II. Kahalgaon : Both 210MW & 500MW units at khSTPP, absorbed VAR or injected zero VAR into the Grid for most of the time and hence performance of the units was satisfactory.

III. Sagardighi: Reactive performance of sagardighi was satisfactory but not adequate.

IV. MPL: MPL MVAr data is not reporting since last three months.

V. Sterlite: U#3 absorbed VAR during high voltage condition but U#1 VAR absorption was not adequate.

VI. Performance of Mejia-B, DSTPS and Adhunik TPS were not adequate.

Members may note.

Deliberation in the meeting

Members noted.

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

In the 88th OCC it was decided to change the relevant taps of identified units as follows:

DSTPS GT	-1 and 2	MEJIA'B' GT - 1 & 2		
Present tap position & voltage ratio	Suggested tap position & voltage ratio	Present tap position	Suggested tap position	
5 (21kV/420 kV)	7 (21kV /399 kV)	4 (21kV /430.5 kV)	7 (21kV /399 kV)	

Adhunik GT-1 & 2				
Present tap position & Suggested tap position &				
voltage ratio	voltage ratio			
8 (16.5kV /420kV)	12 (16.5kV /400.68 kV)			

In last meeting, OCC advised ERLDC to make further analysis on the issue In view of difficulties raised DVC and Adhunik.

ERLDC may update.

Deliberation in the meeting

ERLDC informed that the presently voltage is within permissible range so the tap changing may be done during winter.

c) Schedule for reactive capability tests

As discussed in the last OCC meeting, the status of reactive capability testing of identified generators is as follows:

a)	Adhunik TPS:	In Nov, 13
b)	DSTPS:	One unit is out due to coal shortage, test to be done on
		opportunity basis.
\sim	Maija & Kadarma TBS:	Tast to be done when both units are in service

c) Mejia & Koderma TPS: Test to be done when both units are in service.

Maithon RB had mentioned in the last OCC meeting that they had already carried out reactive capability tests of their machines in January/march, 2013. However, the report of the reactive capability tests have not yet been received at this end.

Concerned members may update the status.

Deliberation in the meeting

Members updated the status.

PART C:: OPERATIONAL PLANNING

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

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

Members may finalize.

Deliberation in the meeting

Members finalized the shutdown proposals for the month of Feb'14. Approved list is given at **Annexure-C.1**. Shutdown related to Odisha subject to approval from Govt. of Odisha.

In view of Odisha's decision to approve S/Ds through the concurrence of Govt. of Odisha, ERPC/ERLDC is facing difficulty in planning the shutdown of CTU lines with Orissa and these are affecting transmission line S/D programme of ER as a whole. Therefore OCC refered the issue to TCC for a solution.

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

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of Feb'14 were prepared by ERPC Secretariat on the basis of LGBR for 2013-14, keeping in view that the units are available for generation and expected load growth etc. and circulated in the meeting for discussion.

Members may confirm.

Deliberation in the meeting

Members updated the latest power supply position. Updated power supply position during Jan' 14 is given at **Annexure-C.2**.

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

(i) Generating units:

Generating Station	UNIT NO	CAP(MW)	DATE	REASONS FOR OUTAGE	Date of restoration
BOKARO B	3	210	12.10.13	POLLUTION CONTROL	
KODERMA	2	500	03.11.13	SUPER HEATER TUBE	
MEJIA	8	500	10.11.13	COAL SHORTAGE	
BANDEL	5	210	16.11.13	MAINTENANCE	
MEJIA	2	210	21.11.13	OVERHAULING	
ADHUNIK	1	270	29.11.13	GT FAILURE	
SANTALDIH	5	250	04.12.13	TURBINE PROBLEM	
DSTPS	2	500	19.12.13	COAL SHORTAGE	
STERLITE	4	600	23.10.13	F. D. FAN PROBLEM	
STERLITE	3	600	25.12.13	I. D. FAN PROBLEM	
CTPS	8	250	26.12.13	TUBE LEAKAGE	
DPL	7	300	28.12.13	MILL PROBLEM	
KOLAGHAT	4	210	28.12.13	OVER HAULING	

(ii) Transmission elements

Name of the Line/Element	Outage Date	Reason	Date of restoration
220 KV JEERAT - SATGACHIA D/C	15.06.10	DUE TO LAND SLIDE OF GANGES RIVER BANK	
220 KV MERAMUNDALI - TSTPS - I	24.08.13	BREAKER PROBLEM AT MERAMUNDALI	
220 KV MENDHASAL - NARENDRAPUR - II	12.10.13	TOWER COLLAPSE	
220 KV THERUBALI - NARENDRAPUR - I	12.10.13	TOWER COLLAPSE	
220 KV THERUBALI - NARENDRAPUR - I	12.10.13	TOWER COLLAPSE	

Members may update.

Deliberation in the meeting

Members noted.

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

- 132kV Siliguri (PG)-NBU-NJP(T circuit) was reconfigured as 132kV Sliguri (PG)-NJP (WB) on 05/12/13 and the said ckt was charged for antitheft purpose at 20:42hrs on the same date from NJP(WB) end.
- 2. 220kV Kharagpur-Midnapore-I & II charged for the first time on 15/12/13 at 18:13 & 18:16hrs respectively and loaded subsequently.
- 3. Overload test of HVDC Bheramara at power order of 550MW was carried out on 23/12/13.
- 4. 400kV Ranchi-Ranchi (New)-I was charged for the first time on 27/12/13 at 17:34hrs from Ranchi end upto the line side isolator of Ranchi (New).
- 5. 400kV Bus-I at Ranchi (New) was charged for the first time on 30/12/13 at 17:34hrs.
- 6. 125MVAR Bus reactor-II at Ranchi (New) was charged for the first time at 30/12/13 at 18:02hrs.

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

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

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

New generating units:

S.No.	Power Plant	Plant Size	Expected date
1	GMR Unit#3	4x350MW	15 th Nov, 2013
2	Koderma Unit#2	2x500MW	Oct, 2013
3	Corporate Power Unit#1	2x270MW	
4	Teesta-III Unit#1	1x200MW	
5	Raghunathpur Unit#1	2x600MW	Nov, 2013
6	TLDP-IV	1x40MW	

New transmission elements:

SI No.	Name of Element	Expected date
1	400 kV Maithon-Gaya D/C	After December, 2013
2	400 kV Gaya-Koderma D/C	After December, 2013
3	LILO of 400kV Kahalgaon-Biharshariff 1& 2 at	Nov, 2013
	Lakhisarai	
4	400kV Sasaram-Daltonganj D/C &Daltonganj S/Stn	
5	400 kV Ranchi-Raghunathpur D/C	Mar, 2014
6	400 kV Meramandali-Dubri D/C	
7	400 kV Corporate- Ranchi D/C	
8	400 kV IB-Meramandali D/C	March, 2014
9	220 kV TLDP-IV – NJP ckt-2	2014
10	220 kV Kharagpur-Midnapur D/C	After Puja
11	220 kV Jeerat-Rishra D/C	
12	220 kV Latehar-Daltonganj D/C	December, 2013
13	220 kV Lohardaga-Lathehar D/C	December, 2013
14	220 kV Bidhansai-Cuttack D/C	June, 2014
15	220 kV Girdih-Koderma D/C	Mar, 2014

Members may update.

Members noted.

PART D:: OTHER ISSUES

Item no. D.1: UFR operation during the month of Dec'13

System frequency touched 49.33 Hz in December'13. No report of operation of UFR is hence expected under above circumstances.

Members may note.

Deliberation in the meeting

Members noted.

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

Vide clause no 5.5.1.c)(h) of IEGC, non-compliance of SLDC direction by SEB/Distribution licenses/bulk consumers to curtail overdrawal is 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 over drawal, within two days after the day of operation.

No report from any constituent received. Hence ERLDC consider 'Nil' report for all Constituent for Dec'13.

Members may note

Deliberation in the meeting

Members noted.

Item no. D.3: Grid incidences during the month of Dec'13

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	WBSETCL (Bidhannagar)	09/12/13 at 21:27 & 23:22Hrs	Incident1:- 13 Incident2:- Nil	Incident1:- 310 Incident2:- 95	All the 220kV lines & ATRs of 400/220/132kV Bidhannagar tripped due to bus fault at 220kV Bus-B at 21:27hrs.Again during the normalization process at 23:21Hrs, B-Ø CT of 220kV Bidhannagar-Waria-I burst at Bidhannagar s/s, leading to operation of Bus bar differential protection and tripping of all lines connected to the only available Bus-A.	GD-1
2	ER-II (Birpara)	19/12/13 at 17:40Hrs	Nil (power was being exported to Bhutan from Birpara)	150	Total power failure occurred at 200/132kV Birpara S/s due to tripping of 220kV Birpara-Binaguri-D/C & 315MVA ICT at Bongaigaon.400/220kV, 200MVA ICT at Malbase was under shutdown prior to the incident.	GD-1

Members may note.

Members noted.

Item no. D.4: Bhutan voice communication with ERLDC.

In 23rd ERPC meeting held on 22nd December, 2012, POWERGRID informed that they are working for voice communication between Backup NLDC, India at ERLDC, Kolkata & NLDC, Bhutan.

In 92nd OCC Powergrid informed that work order has already been placed and will be completed by January, 2014.

POWERGRID may update the status.

Deliberation in the meeting

Powergrid informed that, the status is same.

Item no. D.5: SCADA data availability to ERLDC.

It was directed that all utilities should take appropriate actions at their end to establish the existing communication system (SCADA) with ERLDC healthy by June 2013 without fail.

The latest status as updated in 92nd OCC is circulated in the meeting.

Concerned members may update the latest status.

Deliberation in the meeting

ERLDC has given presentation on CERC order dated 19.12.2013 on SCADA Data Telemetry Petition No. 56/SM/2013 (Suo Motu). Presentation enclosed at **Annexure-D5**.

Members noted.

Item no. D.6: Any other Point.

1. Modification of 132kV Bus arrangement at 220/132kV Birpara Sub-station of POWERGRID

At present single Main & Transfer Bus Scheme is functional at 132kV level and Double Main & Transfer Bus Scheme is functional at 220 kV level at 220/132kV Birpara substation of POWERGRID. In order to improve reliability of 132 kV system of Birpara, 132 kV Bus arrangement including switchgear need to be upgraded to Double Main Scheme. Considering the importance of 132kV Birpara substation, modification of 132kV Bus arrangement along with switchgear at 220/132kV Birpara substation of POWERGRID is felt necessary. Due to the space constraint, 132 kV GIS bays could be considered at Birpara substation. Similar proposal in respect of 132kV Siliguri substation was discussed during 2nd-2013 Standing Committee meeting on Power System Planning of Eastern Region held at New Delhi on 27.08.2013 and members agreed to the proposal in respect of 132kV Siliguri sub-station.

Members may discuss.

Deliberation in the meeting

After detailed deliberations OCC agreed in principle for the proposal and referred to TCC/ERPC for further deliberation.

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

Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that modification of 220/132kV Purnea S/S is in progress.

3. Retrofitting of pilot wire protection of 132 kV Purnea(PG)-Purnea (BSPHCL) feeders – Powergrid

In 25th TCC/ERPC meeting this proposal of Powergrid for retrofitting of pilot wire was approved. Powergrid informed that it will take 18 months to implement the scheme with a cost of Rs. 60 lakhs which will be capitalized by Powergrid through tariff.

Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that the above scheme will be covered in the scheme of modification of 132kV Bus arrangement at 220/132kV Purnea Sub-station of POWERGRID as mentioned in item above.

4. Procurement of Emergency Restoration System (ERS Towers) for Eastern Region constituents- Powergrid

In 25th TCC/ERPC, Powergrid was advised to procure four sets of ERS. It was also decided that these four sets will be kept at Sikkim, Siliguri, Ranchi and Gaya and will be used by all constituents of ER during emergencies.

Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that, Feasibility Report is under preparation stage and the same shall be put up for approval of POWERGRID management.

5. Augmentation of DG set at Biharshariff sub-station

25th TCC/ERPC agreed for Augmentation of DG set at Biharshariff sub-station.

Powergrid may update the latest status.

Deliberation in the meeting

Powergrid informed that, order has been placed and expected to be delivered by May, 2014.

6. Document Management System (DMS) for ERPC

ERPC Secretariat office needs to handle a lot of documents on daily basis such as letters, agenda, minutes, notices and important data in respect of ER. Management of these voluminous documents mainly in hard copies is day to day becoming extremely difficult primarily because of abnormal increase in scope of secretariat work adversely coupled with acute shortage of man power. On many occasions it is being difficult to share or distribute these documents across locations.

Members may discuss.

Constituents felt that a Document Management System (DMS) should be there in ERPC Secretariat and accordingly OCC advised Member Secretary I/C, ERPC to take up the scheme along with Repairing/Overhauling work of the Secretariat which is presently going on. OCC further advised to include the cost of DMS (25 to 30 Lakhs approx) in cost of major renovation work of ERPC Secretariat office at Kolkata.

7. Failure of Optical fibre link between Hatia- SLDC(Ranchi) -JESB

JSEB vide letter dated 08.01.14 informed that Hatia- SLDC (Ranchi) optical fibre link (UGFO) is under breakdown since September, 2013 which results non-reporting of four (4) nos. RTU viz. Patratu, Sikidiri, Tenughat and Hatia.

To rectify the above defect, several reminders in written as well as verbal request have been made to Powergrid and same has been raised in different forum of ERPC meetings.

Deliberation in the meeting

JSEB requested Powergrid to restore the link temporarily till its final restoration. Powergrid agreed to look into the matter.

Meeting ended with vote of thanks to the chair.

Annexuse-A

Participants in 93rd OCC Meeting

Venue: ERPC Conference Room

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Time: 11:00 hrs

Date: 10.01.14 (Friday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
1	AK banch Spaelly	Mstle	ERPC	9433068533	mserpe-power Onic.in	Abaudyform
2	UKVierma	GM	ERLOC	08902486222	lijwaltenv. venas Ogwail.com	Marrie
3	री दे भीवरत्तव	अपर महा	€. 3112- 20€+ 81.	94330 41802	dkshrivestere SOychow.co.in	Biz Darte
4	S.K.HAZRA	Dem	BRIDE.	9433041809	hKsnigh @ reliff	स्तिहन्मेल
5	S. N. ahash	CM	POWERLAND	9434740016	Asghanh-11@ yeles	12
6	F.N. Prasad	CE	DVC	9831954299	bubrasad. due agmail. com	03
7	B. Pom	DLE	Dre	9903247102	pon@dre-sur.	r Bon
8	S NAYAK	AGM	NTPC-ER-2	943704581	Snayak@ntpc · co. j h	beny-
9	RAKE SH KUMAR	AGm (OS)	NTPC-ER-I PATNA.	9431011349	rakesh kumas 12@ntpc.com	- Parlage Xunge
10	SBANERJEE	c.M.	ERLDC	9433041823	swoyitb@gmalk	m ky
11	H.S. Bhalta.	Gr. Heed	MPL	9204853168	himadri. bhotta Ctatapower. cm	HERsheel
12	Ripunjay Kuman.	Aut. Manger.	APNRL	9007098131	ripunjay Kumar Qadhuningroup. 50	Rimupay
13	Sawal K Sahay	Engineer	ERLDC	9432013173	Sahay Sawar @ grais. Com	Sahay
14	SKChandrafor	mgr	ERLOC	9433641860	Sanjew, Chandraka @ gmail.com	Gric
15	M.K. Thakur	St. Ergt.	ERLOC	9932351832		hata
16	R.P. Singh	DGM (OS)	N TPC ER:149, Paths	9431011366	spsingh 01(0)	Mos his
17	W. Mandal	AGM (E)	Gate Infra-	8016082299	e gatinfra.com	· 10/1
18	A. Chattenju	VP	GMR Energy	7894471081	arindam. Chatterjæ@gmm	pronp. in this
19	RCHA KRANDERY	DGM	CER	9851054619	Crp-Sg. in	Rhg
20	T.K. De	A.C.E.	WISSEDCL	943387074	Kumer tapan de	The

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

[Page 1]

Participants in 93rd OCC Meeting

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 10.01.14 (Friday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
21	Aniverethe Satty	A. 9	GRIDCO	943850635	ele. a sethi O gnida co	Aly
22	d. K. Mohant	DAM	SLDC,	9438907065		de
23	PK Mishaa	BGM	-do -	9438907402	ele.pknishra.e sklcovissa.ovg.in	he
24	PKBASh	47 DGM (Oprn)	WEPder	9432013369	pkbose 6, Wbpdel.co.in	-3
25	P.Saka	CE;CPD WIBS 57CL	MISSETEL	9434877124		Jach
26	4. Raichardhe	ACESSIDE	60 BSETCL	943491007599433419696		a dei
27	Rimil Topno	ABE/ULDE	JSEB	9835715518		Spre
28	S. K. Mishra	EFEJULDE	JEB	9431708987	1 1 2	Sundy
29	Rajdeep Bhattachan	e RE, Kolkala	135P(н)а	9830380689	rekolbsphele gmail.com	Marti
30	Gairewara Dee	ARE	REPC	7051089.897		Pyrado
31	S. Paul	195	ERPC	7	& cube Qenjer	ezean
32	D.K. Bauri	EE	ERPC	9883617236	dinezh-sise a hotmail.com	But
33	V. Kelyararan	Et	EXPL	24235015	-	Cool
34	D. Sarkar.	DY CEE/TRD	ER	9052020312	- (PE
35	S.K.Saha	SSE	E.R.	9002025315	sanjay. Saha 39@ Smail	a
36	S. MUKHERJEE	CR. MNAR	NTPC (KANIHA)	9437560670	sjit_ntpc@ redifimail.com	Soith-
37	Jiten Das	ch. Mar	POWERGRID. ER T, Kotn	9431815705	er-osie yana.	OH S
38	अनुप्रिभा	अभिम्मन्ता	पावर ग्रिड हरूम, केलकस	9434748298	atts205@ gmail.com	उत्तर्ममा
39	T-R-Mohapulta	eg. Mar.	ERLDL	9433041893		d. 29
40	ARBhuneio	AGM(os)	NTPC	9433027333	ablebhunia@	Rod

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

Participants in 93rd OCC Meeting

Venue: ERPC Conference Room

Time: 11:00 hrs

Date: 10.01.14 (Friday)

Sl No	Name	Designation	Organization	Contact Number	Email	Signature
41	No Khao	LIO	Gridlo	9433035435	Kheny Long Mr. 44 8	Nut
42	S. Ghosh	AM(PS)	WBPDCL	9474363869	9-rudit for 9 00 il	S. Thish
43	RANJAN DAS	AM(P)	GRIDCO	9861383970	deisranjan 102- @gmuiel.cen	Le le
44	Santosh ku . Dag	Dy.mgr	OPTUL	9438907316	ele-santoshdus Gortce-co-in	200
45	N. Siafa.	Sr-Mar.	WBPDEL	9432015319	Ng2ala@e26/2 Co-ci	in which
46	A. Kannekar	S.E.(E):CO	WBSETCL	9434910090	asit. Kannakar Ecobsetel. in	Age
47	b. be	D/M @E	LESC	92305-2423	debarshindo Orp-sg. in	M.
48	J. BANDYOPADAN	44 SÉ	ERPC			13
49	B. SARKHEL	SE(PS)	ERPC	9433065724		Sel
50	S P. BARNWAL	cm(sL)	ERLDC	9433041812		Squally
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"Coming together is a beginning, staying together is progress, and working together is success." -Henry Ford

Frequency Response Characteristic Calculation in Eastern Region

EVENT : On 23.12.13, at 0612hrs due to tripping of Auxiliary ICT (which was providing station auxiliary supply), machines of Anpara UPPCL Stage-A &
B tripped.

	Total Generation Loss=1340MW.					_				-
S No	Pariculars	Dimension	Bihar	Jharkhand	DVC	OPTCL	WB	Bhutan	ER	ISGS*
1	Actual Net Interchange before the Event (06:12:10)	MW	1475	497	-618	643	119	130.0	-2678	8249
2	Actual Net Interchange after the Event (06:15:30)	MW	1466	482	-641	635	108	131.3	-2785	8114
3	Change in Net Interchange (2 - 1)	MW	-8.9	-15.5	-23.2	-8.4	-11.2	1.4	-106.3	134.5
4	Generation Loss (+) / Load Throw off (-) during the Event	MW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Control Area Response (3 - 4)	MW	-8.9	-15.5	-23.2	-8.4	-11.2	1.4	-106.3	134.5
6	Frequency before the Event	HZ	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79
7	Frequency after the Event	HZ	49.31	49.31	49.31	49.31	49.31	49.31	49.31	49.31
8	Change in Frequency (7 - 6)	HZ	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
9	Frequency Response Characteristic (5 / 8)	MW/HZ	18	32	48	18	23	-3	221	-280
10	Net System Demand met before the Event	MW	1575	787	2202	2496	3045	0	11433	0
11	Internal Generation before the Event (10 - 1)	MW	100	290	2820	1853	2926	130.0	14111	8249
12	Ideal load response assuming 4% per Hz (0.04*Row 10)	MW/Hz	63.0	31.5	88.1	99.8	121.8	0.0	457.3	0.0
13	Ideal generator response assuming 5% droop40% per Hz (40% of Row 11)	MW/Hz	40.0	116.0	1127.9	741.2	1170.3	52.0	5644.4	3299.5
14	Composite ideal response (12 + 13)	MW/Hz	103.0	147.5	1216.0	841.0	1292.1	52.0	6101.7	3299.5
15	Percentage of ideal response {(9/14)x100}	%	17.9%	21.9%	4.0%	2.1%	1.8%	-5.4%	3.6%	-8.5%

Note: +ve exchange=> import ; (-)ve exchange => export

* including TSTPS-II units, being synchronized with NEW grid, power recepit from bhutan and IPP (MPL,SEL, Chujachen and Adhunik)

Frequency Response Characteristic Calculation in Eastern Region EVENT: On 23.12.13, at 0612hrs due to tripping of Auxiliary ICT (which was providing station auxiliary supply), machines of Anpara UPPCL Stage-A & B tripped. Total Generation Loss=1340MW.

S No	Pariculars	Dimension	FSTPP I	FSTPP II	KhSTPP I	KhSTPP II	TSTPS-I	TSTPS-II(SR)	MPL	Sterlite	Adhunik	Chujachen*	Teesta V	RHEP
1	Actual Net Interchange before the Event (06:12:10)	MW	1162.0	315.7	716.5	1111.1	937.5	1874.4	1068.8	286.95	241.6	40.0	0.0	41.9
2	Actual Net Interchange after the Event (06:15:30)	MW	1158.8	313.3	711.7	1149.4	932.1	1883.8	978.8	309.50	240.7	40.0	0.0	42.0
3	Change in Net Interchange (2 - 1)	MW	-3.2	-2.3	-4.8	38.2	-5.4	9.5	-90.0	22.6	-0.9	0.0	0.0	0.1
4	Generation Loss (+) / Load Throw off (-) during the Event	MW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Control Area Response (3 - 4)	MW	-3.2	-2.3	-4.8	38.2	-5.4	9.5	-90.0	22.6	-0.9	0.0	0.0	0.1
6	Frequency before the Event	HZ	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79
7	Frequency after the Event	HZ	49.31	49.31	49.31	49.31	49.31	49.31	49.31	49.31	49.31	49.31	49.31	49.31
8	Change in Frequency (7 - 6)	HZ	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48
9	Frequency Response Characteristic (5 / 8)	MW/HZ	7	5	10	-80	11	-20	188	-47	2	0	0	0
10	Net System Demand met before the Event	MW	0	0	0	0	0	0	0	0	0	0	0	0
11	Internal Generation before the Event (10 - 1)	MW	1162.0	315.7	716.5	1111.1	937.5	1874.4	1068.8	286.9	241.6	40.0	0.0	41.9
12	Ideal load response assuming 4% per Hz (0.04*Row 10)	MW/Hz	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	Ideal generator response assuming 5% droop40% per Hz (40% of Row	MW/Hz	464.8	126.3	286.6	444.4	375.0	749.7	427.5	114.8	96.6	16.0	0.0	16.8
14	Composite ideal response (12 + 13)	MW/Hz	464.8	126.3	286.6	444.4	375.0	749.7	427.5	114.8	96.6	16.0	0.0	16.8
15	Percentage ideal response	%	-1.4%	-3.9%	-3.5%	17.9%	-3.0%	2.6%	-43.9%	40.9%	-1.9%	0.0%	0.0%	1.2%

* Data at this powerstaion got freezed

Annexure-C.1

SYSTEM	POWER STATION	Unit NO.	Effective Capacity	Maintenance Programme	Remarks	No.of Days
DVC	Mejia TPS	Unit No 5	250	06.02.2014 to 26.02.2014	Annual Overhauling	20
WBPDCL	BTPS	Unit No 1	60	11.02.2014 to 15.02.2014	Boiler Licence	5

Maintenance Programme of Generators for the Month of February, 2014 as per LGBR

EASTERN REGIONAL LOAD DESPATCH CENTRE KOLKATA

TRANSMISSION ELEMENTS OUTAGE REQUSET TO BE DISCUSSED IN 93rd OCC MEETING OF ERPC

	S/D APPROVED IN OCC								
Sr. No	NAME OF THE ELEMENTS	DATE	τιμε	DATE	τιμε	REMAR KS	S/D availed BY	Reason	SUBJECT TO CONSENT FROM
1	400 KV BSF - SSRM - I AND II (AUTO RECLOSURE IN NON AUTO MODE ONLY)	1/11/2014	8:00	1/31/2014	18:00	ODB	ER-I	FOR PID TESTING	
2	A/R OF 400 KV BOLANGIR - ANUGUL	1/14/2014	7:00	2/10/2014	17:00	ODB	ER-II	OPGW STRINGING WORK	NLDC
3	A/R OF 400 KV MALDA - PURNEA - I	1/11/2014	7:00	2/10/2014	17:00	ODB	ER-II	OPGW STRINGING WORK	
4	A/R OF 400 KV SUBHASHGRAM - JERAT	1/11/2014	7:00	2/10/2014	17:00	ODB	ER-II	OPGW STRINGING WORK	WBSETCL
5	765 KV GAYA - FATEHPUR LINE	12/1/2014	7:00	2/28/2014	18:00	ODB	ER-I	OPGW STRINGING WORK	NLDC
6	400KV New Silliguri Tala-3	1/14/2014	10:00	1/14/2014	14:00	ODB	ER-II	Numerical Relay Retrofiting under NTAMC project	NLDC
7	400 kV Talcher-Meramundali ckt-II & 400 kV Meramundali-GMR ckt-I	1/14/2014	8:00	1/14/2014	17:00	ODB	ER-II	For the tapping connection of LILO 400kV D/C Talcher- Meramundali at Angul	NLDC/OPTCL
8	400KV New Silliguri Tala-4	1/15/2014	10:00	1/15/2014	14:00	ODB	ER-II	Numerical Relay Retrofiting under NTAMC project	NLDC
9	132 kV Rangit-Gangtok	1/15/2014	9:00	1/30/2014	16:30	ODB	ER-II	For erection of Loc AP-3/0 (DD+25) type tower of LILO of 400 KV D/C TeestaV-New Siliguri TL under the project Transmission system for evacuation of power generated in Hydro Projects from Sikkim to NR/W/R (Part-R)	SIKKIM
10	400 KV KHLG - BSF - I & II	1/16/2014	8:00	1/25/2014	18:00	OCB	ER-I	FOR LILO OF 400 KV KHLG - BSF - I & II AT LAKHISARAI S/S	NLDC
11	50MVAR 400KV Bus Reactor at Rourkela	1/16/2014	9:00	1/16/2014	17:00	ODB	ER-II	AMP	
12	400KV New Silliguri Purnea-2	1/16/2014	10:00	1/16/2014	14:00	ODB	ER-II	Numerical Relay Retrofiting under NTAMC project	NLDC
13	400/132 KV ICT AT KAHALGAON	1/16/2014	9:30	1/18/2014	17:30	ODB	NTPC	400 KV CT REPLACEMENT IN ICT - I MAIN BAY	
14	220 KV MUZ - HAJIPUR D/C	1/16/2014	8:00	1/17/2014	18:00	ОСВ	ER-I	FOR POWER LINR CROSSING WORK OF 800 KV HVDC AND 400 KV BARH - GKP LINE	BIHAR
15	400 KV GMR - MERAMUNDALI	1/17/2014	10:00	1/17/2014	11:00	ODB	GMR	SEM INSTALATION WORK	OPTCL
16	400 KV GMR - TALCHER	1/17/2014	11:15	1/17/2014	12:15	ODB	GMR	SEM INSTALATION WORK	OPTCL
17	132 KV SHEIKHPURA - JAMUI S/C (OF BSPHCL)	1/17/2014	6:00	1/17/2014	18:00	ODB	ER-I	FOR LILO OF 400 KV KHLG - BSF - I & II AT LAKHISARAI S/S	BIHAR
18	400KV New Silliguri Bongaigaon-2	1/17/2014	10:00	1/17/2014	14:00	ODB	ER-II	Numerical Relay Retrofiting under NTAMC project	NLDC
19	400 KV RANCHI - ROURKELA - I & II	1/19/2014	7:00	1/19/2014	15:00	ODB	ER-I	OPGW STRINGING WORK	
20	220 KV RANCHI - HATIA - II	1/19/2014	7:00	1/19/2014	15:00	ODB	ER-I	OPGW STRINGING WORK	JSEB
21	66 KV Main Bus at Gangtok	1/20/2014	9:00	1/21/2014	17:00	ODB	ER-II	Isolator allingement/ Commissiong of MOM box for remote Operation under the scope of NTAMC.	Total power interruption at
22	220 KV JAMSHEDPUR - JINDAL	1/20/2014	9:00	1/21/2014	17:00	ODB	DVC	ANNUAL MAINTENANCE WORK	OPTCL
23	400KV SEL - Raigarh -I	1/21/2014	9:00	1/21/2014	17:00	ODB	ER-II	For Replacement of insulators damaged by miscreants	NLDC
24	220 kV Bus 1 at Dalkhola	1/21/2014	7:00	1/21/2014	15:00	ODB	ER-II	Retrofitting of MOM box for isolators remote operation under	WBSETCL
25	400KV Rourkela - SEL -I	1/22/2014	9:00	1/22/2014	14:00	ODB	ER-II	Numerical Relay retorfitting under NTAMC project	NLDC
26	400KV Rourkela - SEL -I	1/22/2014	10:00	1/22/2014	14:00	ODB	ER-II	Commissioning of CSD for Reactor	NLDC
27	400 KV Malda-Purnea-I	1/22/2014	8:00	1/22/2014	17:00	ODB	ER-II	AMP	NLDC
28	66 Transfer Bus at Gangtok	1/22/2014	9:00	1/23/2014	17:00	ODB	ER-II	Isolator allingement/ Commissiong of MOM box for remote Operation under the scope of NTAMC.	Total power inerruotion at
29	400KV ROURKELA-SUNDARGARH-RAIGARH -1	1/23/2014	8:00	1/26/2014	16:00	ОСВ	ER-II	FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS & CB FROM SAS AND ATTENDING PUNCH POINTS.	NLDC

30	400KV Rourkela - Sundargarh CktI	1/23/2014	10:00	1/23/2014	14:00	ODB	FR-II	Commissioning of CSD for Reactor	NLDC
			10.00	1/20/201	1.000	000	2	FOR DOING STABILITY AND CHECKING BUS BAR-2 PROTECTION	
	400 KV BUS-2 & 400 KV Sundargarh-Baigarh- 1	1/23/2014	8.00	1/26/2014	16.00	ОСВ	FR-II	FOR LINE CHECKING INTERIOCK & REMOTE OPERATION OF	NLDC
31		1,23,201	0.00	1,20,201	10.00	000	2.1.1		11200
32	400 KV FAST BUS - II AT PSI	1/23/2014	8.00	1/23/2014	18.00	ODB	FR-I	FOR ISOLATOR MODIFICATION WORK OF 125 MVAR B/R -1 & 2	
33		1/23/2014	6.00	1/25/2014	18.00	ODB	FR-I		BIHAR
34	400KV Maithon-Koderma-II line	1/23/2014	9.00	1/23/2014	17.00	ODB	FR-II	Bushing replacement, work oil sample collection CGLCT Line	
35	FSC OF BNC - SIPAT - I	1/23/2014	9.00	1/23/2014	17:30	ODB	FR-I	AMP WORK LINE WILL REMAIN IN SERVICE WITHOUT ESC	NLDC
36	400KV Maithon-MEIIA-III Line	1/24/2014	9.00	1/24/2014	10.00	ODB	FR-II	oil sample collection -CGL R-PH line CT	11200
37		1/24/2014	9.00	1/24/2014	18.00	ODB	FR-II	For oil sampling of newly erected CT	
38	315 MVA ICT-Lat Maithon	1/24/2014	9.00	1/24/2014	10.00	ODB	FR-II	oil sample collection -CGL R-PH line 220KV CT	DVC
39		1/24/2014	7.00	1/25/2014	17.00	ODB	FR-I	FOR POWER LINE CROSSING WORK OF 400 KV BOKARO KODERMA	BIHAR
40		1/25/2014	7:00	1/25/2014	15.00	ODB		AMC WORK	WBSETCI
		1/23/2014	7.00	1/23/2014	15.00	000			WILL BE
41	A/R OF 400 KV RENGALI - KEONJHAR	1/25/2014	7:00	2/10/2014	17:00	ODB	ER-II	OPGW STRINGING WORK	ALLOWED AFTER
	400KV Maithon-MPL-II	1/25/2014	9:00	1/25/2014	17:00	ODB	ER-II	Replacement of isolator Arms and providing additional Copper	MPL
42				_,,				braided belts, Oil sample collection from CGL -R-PH line CT	
43	400 KV PTN - BARH - 3	1/26/2014	7:00	1/29/2014	18:00	ODB	ER-I	OPGW STRINGING WORK	
44	400 KV PTN - BALIA -3	1/26/2014	7:00	1/29/2014	18:00	ODB	ER-I	TO FACILITATE OPGW STRINGING WORK OF 400 KV PTN - BARH -	NLDC
45	220KV Budhipadar - Korba CktIII	1/26/2014	9:00	1/26/2014	17:00	ODB	ER-II	Numerical Relay retorfitting by M/s ALSTOM and also to Replace	NLDC/OPTCL
46	132 Kv Siliguri - NJP - D/C	1/27/2014	8:00	1/27/2014	17:00	ODB	ER-II	For carrying out Re-conductoring work of 400kV Binaguri- Purnea	
47	315 MVA ICT-II at Maithon	1/27/2014	9:00	1/29/2014	17:00	OCB	ER-II	Bushing replacement 220KV Y-PH	DVC
48	220kV Subhasgram-CESC Line-1	1/27/2014	7:00	1/27/2014	15:00	ODB	ER-II	AMP	WBSETCL
49	400 KV New Siliguri-New Purnea CKT-III & IV(Both Powerlink Ckt)	1/27/2014	8:00	1/29/2014	17:00	ODB	ER-II	For Re-conductoring of NSLG-NPRN CKT-I in the section 159-163	NLDC
50	400KV SEL - Raigarh -II	1/27/2014	9:00	1/27/2014	17:00	ODB	ER-II	To attend Hotspots at Loc. 299, 304, 307, 308, 311, 313, 317, 318,	NLDC
51	400 KV BIHARSHARIF - MUZAFFARPUR - I	1/28/2014	9:30	1/28/2014	12:00	ODB	ER-I	AMP WORK	
52	400 KV RANCHI -MAITHON LINE	1/28/2014	7:00	1/29/2014	18:00	ODB	ER-I	FOR STRINGING WORK OF RANCHI - RANCHI TL - II BETWEEN 5/0 -	
53	400 KV RANCHI - RAGHUNATHPUR LINE	1/28/2014	7:00	1/29/2014	18:00	ODB	ER-I	FOR STRINGING WORK OF RANCHI - RANCHI TL - II BETWEEN 5/0 -	DVC
54	400KV Rourkela - Talcher CktI	1/28/2014	9:00	1/28/2014	17:00	ODB	ER-II	For Replacement of insulators damaged by miscreants	NLDC
55	315 MVA ICT at Farakka	1/28/2014	9:00	1/28/2014	15:00	ODB	ER-II	For fire fighting line design change.	
56	220kV Subhasgram-CESC Line-2	1/28/2014	7:00	1/28/2014	15:00	ODB	ER-II	AMP	WBSETCL
57	400 KV RENGALI - BARIPADA - KHARAGPUR	1/28/2014	7:00	1/30/2014	17:00	ODB	OPTCL	AMC WORK	WBSETCL
58	400 KV BIHARSHARIF - MUZAFFARPUR - 2	1/29/2014	9:30	1/29/2014	12:00	ODB	ER-I	AMP WORK	
59	315 MVA ICT#3 at Subhasgram	1/29/2014	7:00	1/29/2014	15:00	ODB	ER-II	Isolator CRM	WBSETCL
								FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS	
60	400KV ROURKELA-SUNDARGARH-RAIGARH -2	1/29/2014	8:00	1/30/2014	16:00	ОСВ	ER-II	&CB FROM SAS AND ATTENDING PUNCH POINTS.	NLDC
61	400 KV PSL - BSF - 3	1/30/2014	8:00	1/30/2014	18:00	ODB	ER-I	FOR BAY CONSTN. WORK OF 400 KV SSRM - DALTANGANJ TL	
62	220 KV MALDA-DALKHOLA-I CKT	1/30/2014	8:00	1/30/2014	18:00	ODB	ER-II	Replacement of CT under ADDCAP.	
63	315 MVA ICT#4 at Subhasgram	1/30/2014	7:00	1/30/2014	15:00	ODB	ER-II	Isolator CRM / Jumper Alignment	WBSETCL
64	400 KV PTN - BALIA - 1	1/31/2014	8:00	1/31/2014	17:00	ODB	ER-I	FOR LINE MAINTENANCE WORK	NLDC
65	400 KV PTN - BALIA - 2	2/1/2014	8:00	2/1/2014	17:00	ODB	ER-I	FOR LINE MAINTENANCE WORK	NLDC
									EITHER GAYA -
66	400 KV PATNA - BALIA - 1	2/1/2014	7:00	2/28/2014	18:00	ODB	ER-I	OPGW STRINGING WORK	FATEHPUR OR
									EITHER MALDA -
	400 KV KHLG - BANKA - I	2/1/2014	7:00	2/28/2014	18:00	ODB	ER-I	OPGW STRINGING WORK	PURNEA OR
67		, _, _0		,,,,					KAHALGAON -
68	220 KV ARA - KHAGAUL D/C	2/1/2014	7:00	2/28/2014	18:00	ODB	ER-I	OPGW STRINGING WORK	BIHAR
69	400KV New Silliguri Purnea-1	2/1/2014	0:00	2/28/2014	0:00	OCB	ER-II	Reconductoring work	NLDC
70	400KV Maithon-MEJIA-I	2/1/2014	9:00	2/1/2014	17:00	ODB	ER-II	SFRA signature of Reactor	
<u> </u>		1-, -, -0		_, _, _0			1		

71	At Kharagpur: 400 KV Main Bus –I and400 KV	2/2/2014	7:00	2/2/2014	15:00				
<i>'</i> ±	KTPP- Kharagpur CKt.	2/2/2011	1.00	2,2,2011	13.00	ODB	WBSETCL	MAINTENANCE WORK	NLDC
72	At Jeerat: 400 KV Bus Reactor	2/2/2014	7:00	2/2/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
73	400 KV SASARAM - BALIA LINE	2/3/2014	8:00	2/3/2014	18:00	ODB	ER-I	FOR BAY CONSTN.WORK OF 400 KV SSRM - DALTANGANJ TL	NLDC
74	400KV Rourkela - Jamshedpur CktI	2/3/2014	10:00	2/3/2014	14:00	ODB	ER-II	Numerical Backup Impedence Relay retorfitting under NTAMC	
75	400KV Maithon-Kahalgaon-I Line	2/3/2014	9:00	2/3/2014	17:00	ODB	ER-II	OTI adaptation under NTAMC project	NLDC
76	220 KV Dalkhola-Siliguri-I	2/3/2014	8:00	2/3/2014	18:00	ODB	ER-II	Retrofitting of CT under ADDCAP	
77	At BkTPP : 400/220 KV, 315 MVA IBT # 1	2/3/2014	7:00	2/8/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
78	At Kharagpur : 400/220 KV.315 MVA Tr-I	2/3/2014	7:00	2/3/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
79	400 KV JAMSHEDPUR - ROURKELA - 2	2/4/2014	9:30	2/4/2014	17:30	ODB	ER-I	RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS	
	Ι INE REACTOR OF 400 KV RNC - SIPAT - LAT							REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE	
80		2/4/2014	9:00	2/4/2014	18:00	ODB	ER-I	SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND	
	RANCIII							TAKING IN ITS LINE REACTOR AT RNC.	NLDC
81	400KV Rourkela - Jamshedpur CktII	2/4/2014	10:00	2/4/2014	14:00	ODB	ER-II	Numerical Backup Impedence Relay retorfitting under NTAMC	
	12EMMAR BUS REACTOR 1 at Sundargarh	2/4/2014	0.00	2/E/2014	16.00			FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS	
82	1251WIVAR BOS REACTOR-1 at Sulluargalli	2/4/2014	8.00	2/3/2014	10.00	UCB	EK-II	&CB FROM SAS AND ATTENDING PUNCH POINTS.	
83	315MVA ICT-2 at New Siliguri	2/4/2014	10:00	2/4/2014	13:00	ODB	ER-II	AMP work	
84	220 KV MALDA-DALKHOLA-II CKT	2/4/2014	8:00	2/4/2014	18:00	ODB	ER-II	Replacement of CT under ADDCAP.	
85	315 MVA ICT#2 at Durgapur	2/4/2014	9:30	2/4/2014	17:30	ODB	ER-II	AMP Works	
									During the Shut
00		2/4/2014	0.20	2/4/2014	17.20			Destification of lunceous of DV(C#2 Line	down of 220KV
86	220KV Bus #1 at Durgapur	2/4/2014	9:30	2/4/2014	17:30	ODR	ER-II	Rectification of Jumpers of DVC#2 Line.	Bus #1, 220KV
									Bidhannagar Line
87	220 KV JAMSHEDPUR - JINDAL	2/5/2014	9:00	2/6/2014	17:00	ODB	DVC	ANNUAL MAINTENANCE WORK	OPTCL
88	400 KV BSF - BALIA - 1	2/5/2014	8:00	2/5/2014	17:00	ODB	ER-I	FOR LINE MAINTENANCE WORK	NLDC
	245 MU/ALCT 4 at Davasl	2/5/2014	0.00	2/E/2014	16.00		FR-II	ANAD	
89	315 IVIVA ICI-1 at Rengali	2/5/2014	0.00	2/3/2014	10.00	000		AIVIE	
89 90	160MVA ICT #2 at Baripada	2/5/2014	9:00	2/5/2014	17:00	ODB	ER-II	AMP of ICT	OPTCL
89 90 91	160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1	2/5/2014 2/5/2014 2/5/2014	9:00 7:00	2/5/2014 2/5/2014 2/5/2014	17:00 14:00	ODB ODB ODB	ER-II WBSETCL	AMP of ICT MAINTENANCE WORK	OPTCL
89 90 91 92	15 MVA ICI -1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE	2/5/2014 2/5/2014 2/5/2014 2/6/2014	9:00 7:00 9:30	2/5/2014 2/5/2014 2/5/2014 2/6/2014	17:00 14:00 17:30	ODB ODB ODB	ER-II WBSETCL ER-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS	OPTCL NLDC
89 90 91 92 93	15 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014	9:00 7:00 9:30 8:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014	17:00 14:00 17:30 17:00	ODB ODB ODB ODB	ER-II WBSETCL ER-I ER-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK	OPTCL NLDC NLDC
89 90 91 92 93	15 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014	9:00 7:00 9:30 8:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014	17:00 14:00 17:30 17:00	ODB ODB ODB ODB	ER-II WBSETCL ER-I ER-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAs WITH 336 KV LAS .LINE TO BE	OPTCL NLDC NLDC
89 90 91 92 93	115 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014	9:00 7:00 9:30 8:00 9:00	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014	17:00 14:00 17:30 17:00 18:00	ODB ODB ODB ODB ODB	ER-II WBSETCL ER-I ER-I ER-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAs WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND	OPTCL NLDC NLDC
89 90 91 92 93 94	15 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014	9:00 7:00 9:30 8:00 9:00	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014	17:00 14:00 17:30 17:00 18:00	ODB ODB ODB ODB ODB	ER-II WBSETCL ER-I ER-I ER-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC.	OPTCL NLDC NLDC NLDC
89 90 91 92 93 94 95	115 MVA ICT #2 at Baripada 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014	9:00 7:00 9:30 8:00 9:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	17:00 14:00 17:30 17:00 18:00 14:00	ODB ODB ODB ODB ODB ODB	ER-II WBSETCL ER-I ER-I ER-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAs WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC	OPTCL NLDC NLDC NLDC NLDC NLDC
89 90 91 92 93 93 94 95 96	315 MVA ICT #2 at Baripada 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	9:00 7:00 9:30 8:00 9:00 10:00 8:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	17:00 14:00 17:30 17:00 17:00 18:00 14:00 18:00	ODB ODB ODB ODB ODB ODB ODB	ER-II ER-I ER-I ER-I ER-I ER-II ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP	OPTCL NLDC NLDC NLDC NLDC NLDC
89 90 91 92 93 94 95 96 97	315 MVA ICT #2 at Baripada 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 kV Durgapur-DVC#1	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	9:00 9:30 9:30 8:00 9:00 10:00 8:00 9:30	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	17:00 14:00 17:30 17:00 17:00 18:00 14:00 18:00 17:30	ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-I ER-I ER-I ER-I ER-II ER-II ER-II	AMP of ICT AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works	OPTCL NLDC NLDC NLDC NLDC NLDC DVC
89 90 91 92 93 93 94 95 96 97 98	315 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Siliguri-DAlkhola-II	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	9:00 9:00 9:30 8:00 9:00 10:00 8:00 9:30 8:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	17:00 14:00 17:30 17:00 18:00 14:00 14:00 18:00 17:30 20:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-I ER-I ER-I ER-I ER-II ER-II ER-II ER-II	AMP of ICT AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP	OPTCL NLDC NLDC NLDC NLDC DVC
89 90 91 92 93 93 94 95 96 97 98 99	315 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Siliguri-DAlkhola-II 400 KV BS - II AT FARAKKA	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	9:00 9:00 9:30 8:00 9:00 10:00 8:00 9:30 8:00 9:30	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	10:00 17:00 14:00 17:30 17:00 18:00 14:00 14:00 18:00 17:30 20:00 16:30	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-I ER-I ER-I ER-I ER-II ER-II ER-II ER-II ER-II ER-II ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING	OPTCL NLDC NLDC NLDC NLDC DVC
89 90 91 92 93 94 95 96 97 98 99 100	315 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Siliguri-DAlkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	9:00 9:00 9:30 9:00 9:00 10:00 8:00 9:30 9:30 7:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	10:00 17:00 14:00 17:30 17:00 18:00 14:00 14:00 14:00 15:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK	OPTCL NLDC NLDC NLDC DVC
89 90 91 92 93 94 95 96 97 98 99 100 101	3.15 MVA ICT-1 at Rengall 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 kV Durgapur-DVC#1 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	9:00 9:30 9:30 9:00 9:00 10:00 8:00 9:30 9:30 7:00 7:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	10:00 17:00 14:00 17:30 17:00 18:00 14:00 18:00 14:00 15:00 17:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-II ER-II ER-II ER-II ER-II ER-II NTPC WBSETCL FR-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER I INB CROSSING WORK OF 400 KV BOKARO KODERMA	OPTCL NLDC NLDC NLDC DVC BIHAR
89 90 91 92 93 93 94 95 96 97 98 99 100 101 102	3.15 MVA ICT-1 at Rengall 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Durgapur-DVC#1 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	9:00 9:30 9:30 9:30 9:00 10:00 8:00 9:30 9:30 9:30 7:00 7:00 10:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	10:00 17:00 14:00 17:30 17:00 18:00 14:00 18:00 14:00 15:00 17:00 14:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-II ER-II ER-II ER-II ER-II NTPC WBSETCL ER-I ER-II ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC
89 90 91 92 93 94 95 96 97 98 99 100 101 102	3.15 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL Ckt1 220 KV Dalkhola-Siliguri-II 220 KV Durgapur-DVC#1 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	9:00 9:30 9:30 8:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:30 7:00 10:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014	10:00 17:00 14:00 17:30 17:00 18:00 14:00 18:00 14:00 15:00 17:00 14:00 14:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-II ER-II ER-II ER-II ER-II ER-II WBSETCL ER-I ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC
89 90 91 92 93 93 95 95 96 97 98 99 100 101 102 103	3.15 MVA ICT-1 at Kengali160MVA ICT #2 at Baripada132 KV Malda (PG)-Malda (WB) #1400 KV JAMSHEDPUR - BARIPADA LINE400 KV BSF - BALIA - 2LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI400KV Rourkela - SEL CktI220 KV Dalkhola-Siliguri-II220 kV Durgapur-DVC#1220 KV Siliguri-Dalkhola-II400 KV BR - II AT FARAKKA132 KV Malda (PG)-Malda (WB) #2132 KV D/C BTPS - GOMIA400KV Rourkela - Sundargarh	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014	9:00 9:30 9:30 8:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:30 7:00 10:00 8:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014	17:00 17:00 17:30 17:00 17:00 18:00 18:00 18:00 17:30 20:00 16:30 15:00 17:00 14:00 16:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-II ER-II ER-II ER-II ER-II WBSETCL ER-I ER-II ER-II ER-II ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS & CB FROM SAS AND ATTENDING PLINCH POINTS	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	315 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI 220 KV Siliguri-Birpara-1	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014	8:00 9:00 7:00 9:30 8:00 9:00 10:00 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 7:00 10:00 8:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/8/2014	17:00 17:00 17:30 17:00 17:30 18:00 14:00 18:00 17:30 20:00 16:30 15:00 17:00 14:00 16:00 16:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-II ER-II ER-II ER-II ER-II WBSETCL ER-I ER-II ER-II ER-II ER-II ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS &CB FROM SAS AND ATTENDING PUNCH POINTS. AMP of line	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC NLDC NLDC
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105	315 MVA ICT-1 at Rengall 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Dirgapur-DVC#1 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI 125MVAR BUS REACTOR-2 at Sundargarh 220KV New Siliguir-Birpara-1 400 KV MALDA-PURNEA-I CKT	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014	8:00 9:00 7:00 9:30 8:00 9:00 10:00 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 7:00 10:00 8:00 9:00	2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/8/2014 2/8/2014	17:00 17:00 17:00 17:30 17:00 18:00 18:00 18:00 17:30 20:00 16:30 15:00 17:00 14:00 16:00 16:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-I ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS &CB FROM SAS AND ATTENDING PUNCH POINTS. AMP of line Isolator adjustment for remote operation.	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC NLDC NLDC NLDC NLDC NLDC NLDC
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	315 MVA ICT-1 at Kengali 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Dalkhola-Siliguri-DVC#1 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI 125MVAR BUS REACTOR-2 at Sundargarh 220KV New Siliguir-Birpara-1 400 KV MALDA-PURNEA-I CKT 400KV Leerat - Beharamour	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/7/2014	8:00 9:00 7:00 9:30 8:00 9:00 10:00 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 7:00 10:00 8:00 9:00 7:00	2/3/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/8/2014 2/8/2014 2/8/2014 2/8/2014	17:00 17:00 17:00 17:30 17:00 18:00 18:00 18:00 17:30 20:00 16:30 15:00 17:00 14:00 16:00 16:00 16:00 16:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-I ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS &CB FROM SAS AND ATTENDING PUNCH POINTS. AMP of line Isolator adjustment for remote operation. Insulator Replacement / CVT Replacement	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107	315 MVA ICT-1 at Rengall 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Durgapur-DVC#1 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI 125MVAR BUS REACTOR-2 at Sundargarh 220KV New Siliguir-Birpara-1 400 KV MALDA-PURNEA-I CKT 400 KV Jeerat - Beharampur	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014	8:00 9:00 7:00 9:30 8:00 9:00 8:00 9:30 8:00 9:30 7:00 7:00 8:00 8:00 9:00 7:00 8:00 8:00 9:00 8:00	2/3/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/8/2014 2/8/2014 2/8/2014 2/7/2014 2/7/2014	17:00 17:00 14:00 17:30 17:00 18:00 18:00 14:00 18:00 17:30 20:00 16:30 15:00 17:00 14:00 16:00 16:00 16:00 16:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-I ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS &CB FROM SAS AND ATTENDING PUNCH POINTS. AMP of line Isolator adjustment for remote operation. Insulator Replacement / CVT Replacement AMP	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108	 315 MVA ICT-1 at Rengall 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Durgapur-DVC#1 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI 125MVAR BUS REACTOR-2 at Sundargarh 220KV New Siliguir-Birpara-1 400 KV MALDA-PURNEA-I CKT 400 KV NPRN - MUZ D/C 	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014	8:00 9:00 7:00 9:30 8:00 9:00 10:00 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 7:00 7:00 8:00 9:00 7:00 8:00 9:00 7:00 8:00	2/3/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/8/2014 2/8/2014 2/8/2014 2/7/2014 2/7/2014 2/7/2014	17:00 17:00 17:30 17:00 17:00 18:00 18:00 18:00 17:30 20:00 16:30 15:00 17:00 14:00 16:00 16:00 16:00 16:00 16:00 18:00	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-I ER-II	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS &CB FROM SAS AND ATTENDING PUNCH POINTS. AMP of line Isolator adjustment for remote operation. Insulator Replacement / CVT Replacement AMP FOR POWER LINE CROSSING WORK OF 800 KV HVDC LINE	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109	 315 MVA ICT-1 at Rengall 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Durgapur-DVC#1 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI 125MVAR BUS REACTOR-2 at Sundargarh 220KV New Siliguir-Birpara-1 400 KV MALDA-PURNEA-I CKT 400 KV NPRN - MUZ D/C 400 KV ISR - TISCO LINE 	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014	8:00 9:00 7:00 9:30 8:00 9:00 10:00 8:00 9:30 7:00 7:00 8:00 8:00 9:00 7:00 8:00 9:00 8:00 9:00 9:00 8:00 9:00 9:00 8:00 9:30 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 9:00 8:00 9:00 8:00 9:00 8:00	2/3/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/8/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014	17:00 17:00 17:30 17:00 17:30 18:00 18:00 14:00 18:00 17:30 16:30 15:00 17:00 14:00 16:00 17:30hrs 18:00 16:00 16:00 16:00 18:00 17:30	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-I ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS &CB FROM SAS AND ATTENDING PUNCH POINTS. AMP of line Isolator adjustment for remote operation. Insulator Replacement / CVT Replacement AMP FOR POWER LINE CROSSING WORK OF 800 KV HVDC LINE BECTIFICATION OF INSUL ATOR BROKEN BY MISCREANTS	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	 315 MVA ICT-1 at Rengall 160MVA ICT #2 at Baripada 132 KV Malda (PG)-Malda (WB) #1 400 KV JAMSHEDPUR - BARIPADA LINE 400 KV BSF - BALIA - 2 LINE REACTOR OF 400 KV RNC - SIPAT - II AT RANCHI 400KV Rourkela - SEL CktI 220 KV Dalkhola-Siliguri-II 220 KV Dalkhola-Siliguri-II 220 KV Siliguri-Dalkhola-II 400 KV BR - II AT FARAKKA 132 KV Malda (PG)-Malda (WB) #2 132 KV D/C BTPS - GOMIA 400KV Rourkela - Sundargarh CktI 125MVAR BUS REACTOR-2 at Sundargarh 220KV New Siliguir-Birpara-1 400 KV MALDA-PURNEA-I CKT 400 KV NPRN - MUZ D/C 400 KV JSR - TISCO LINE 220 KV Dalkhola-Purnea-I 	2/5/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/8/2014	8:00 9:00 7:00 9:30 8:00 9:00 10:00 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:30 8:00 9:00 7:00 8:00 9:00 7:00 8:00 9:30 8:00 9:30	2/3/2014 2/5/2014 2/5/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/6/2014 2/7/2014 2/7/2014 2/8/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014 2/7/2014	17:00 17:00 14:00 17:30 17:00 18:00 14:00 18:00 14:00 16:30 15:00 17:30 16:00 17:30hrs 18:00 16:00 17:30hrs 18:00 16:00 16:00 18:00 16:00 18:00 16:00 18:00 18:00 16:00 18:00 18:00 16:00 18:00 18:00 16:00 18:00 17:30 18:00 16:00 18:00 16:00 17:30 18:00 16:00 16:00 17:30 18:00 16:00 16:00 17:30 16:00 16:00 17:30 16:00 17:30 18:00 16:00 17:30 18:00 17:30 18:00 17:30 18:00 17:30 18:00 17:30 18:00 17:30 18:00 17:30 18:00 18:00 17:30 18:00 18:	ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB	ER-II ER-II ER-I ER-I ER-I ER-I	AMP of ICT MAINTENANCE WORK RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS FOR LINE MAINTENANCE WORK REPLACEMENT OF 390 KV LAS WITH 336 KV LAS .LINE TO BE SWITCHED OFF FOR 05 MTS EACH TIME FOR TAKING OUT AND TAKING IN ITS LINE REACTOR AT RNC. Numerical Backup Impedence Relay retorfitting under NTAMC Retrofitting of CT under ADDCAP AMP Works Retrofitting of CT under ADDCAP PM & RELAY TESTING MAINTENANCE WORK FOR POWER LINR CROSSING WORK OF 400 KV BOKARO KODERMA Numerical Backup Impedence Relay retorfitting under NTAMC FOR CHECKING INTERLOCK & REMOTE OPERATION OF ISOLATORS &CB FROM SAS AND ATTENDING PUNCH POINTS. AMP of line Isolator adjustment for remote operation. Insulator Replacement / CVT Replacement AMP FOR POWER LINE CROSSING WORK OF 800 KV HVDC LINE RECTIFICATION OF INSULATOR BROKEN BY MISCREANTS Retrofitting of CT under ADDCAP	OPTCL NLDC NLDC NLDC DVC BIHAR NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC

111	50MVAR 400KV Bus Reactor at Rourkela	2/9/2014	10:00	2/9/2014	14:00	ODB	ER-II	Numerical Backup Impedence Relay retorfitting under NTAMC	
112	220KV New Siliguri-Birpara-2	2/9/2014	8:00	2/10/2014	17:30hrs	ODB	ER-II	AMP of line	NLDC
113	At Jeerat : 400/220 KV, 315 MVA Tr-4	2/9/2014	7:00	2/9/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
114	132 KV SAMASTIPUR - HAJIPUR	2/9/2014	8:00	2/10/2014	18:00	ODB	ER-I	FOR POWER LINR CROSSING WORK OF 800 KV HVDC LINE	BIHAR
115	400 KV BUS - I AT JSR	2/10/2014	9:30	2/11/2014	17:30	ODB	ER-I	AMP WORK	
		2/40/2044	0.00	2/40/2044	47.00	0.0.0	50 U	Restringing of earthware to improve electrical clearance between	
116	400 KV New Siliguri-TALA CKT-I	2/10/2014	9:00	2/10/2014	17:00	ODB	ER-II	earthware of 220 KV line and conductor of 400 KV line	NLDC
		2/10/2011	0.00	2/10/2011	47.00	000		Restringing of earthware to improve electrical clearance between	
117	400 KV NEW SIIIguri-TALA CKT-II	2/10/2014	9:00	2/10/2014	17:00	ODR	EK-II	earthware of 220 KV line and conductor of 400 KV line	NLDC
		2/10/2011	0.00	2/10/2011	17.00	000		Restringing of earthware to improve electrical clearance between	
118	220 KV D/C Birpara-Chukha-i	2/10/2014	9:00	2/10/2014	17:00	ODB	EK-II	earthware of 220 KV line and conductor of 400 KV line	NLDC
110		2/10/2014	0.00	2/10/2014	17.00			Restringing of earthware to improve electrical clearance between	
119	220 KV D/C Birpara-Chukha-ii	2/10/2014	9:00	2/10/2014	17:00	ODB	EK-II	earthware of 220 KV line and conductor of 400 KV line	NLDC
120	220 KV Dalkhola-Purnea-II	2/10/2014	8:00	2/10/2014	18:00	ODB	ER-II	Retrofitting of CT under ADDCAP	
121	At KTPP : 400 KV bus tie breakup	2/10/2014	7:00	2/10/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
122	At Kharagpur : 400/220 KV.315 MVA Tr-2	2/10/2014	7:00	2/10/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
123	220 KV PRN - NPRN - I	2/12/2014	10:00	2/12/2014	14:00	ODB	ER-I	AMP WORK	
		2/11/2014	0.00	2/12/2014	10.00			FOR POWER LINE CROSSING WORK OF 400 KV PSL - DALTANGANJ	
124	132 KV GAYA - SUNENAGAR D/C (UF BSPHCL)	2/11/2014	8:00	2/12/2014	18:00	ODB	EK-I	LINE BETWEEN LOC. 49/0-50/0.	BIHAR
125	400KV SEL - Raigarh CktI	2/11/2014	9:00	2/11/2014	17:00	ODB	ER-II	For Jumper Tightening works	NLDC
126	400 KV MALDA-PURNEA-II CKT	2/11/2014	9:00	2/11/2014	18:00	ODB	ER-II	WTI/OTI adaption work of reactor under NTAMC project	NLDC
127	220 KV Siliguri-Binaguri-I	2/11/2014	8:00	2/11/2014	20:00	ODB	ER-II	Retrofitting of CT under ADDCAP	
128	At BkTPP : 400/220 KV, 315 MVA IBT # 2	2/11/2014	7:00	2/16/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
129	220KV PSL- SAHUPURI	2/12/2014	10:00	2/12/2014	14:00	ODB	ER-I	FOR AMP WORK	NLDC
130	400KV Jamshedpur Line Reactor Bay	2/12/2014	9:00	2/12/2014	17:00	ODB	ER-II	Recator AMP & Reactor Bay AMP	
131	315 MVA ICT # 1 at Baripada	2/12/2014	9:00	2/12/2014	17:00	ODB	ER-II	OTI installation under NTAMC project	
132	400 KV FARAKKA - KAHALGAON - I	2/12/2014	9:30	2/12/2014	17:30	ODB	NTPC	PM & RELAY TESTING	NLDC
133	220 KV PRN - NPRN - II	2/13/2014	10:00	2/13/2014	14:00	ODB	ER-I	AMP WORK	
134	400 KV BUS - II AT JSR	2/13/2014	9:30	2/14/2014	17:30	ODB	ER-I	AMP WORK	
135	400 KV BUS - I AT PATNA	2/13/2014	9:30	2/13/2014	17:30	ODB	ER-I	AMP WORK	
136	400kV Subhasgram - Sagardighi Line	2/13/2014	7:00	2/14/2014	15:00	ODB	ER-II	VD Replacement, Jumper tightening, LR SFRA	WBSETCL
137	400 KV FARAKKA - KAHALGAON - II	2/13/2014	9:30	2/13/2014	16:30	ODB	NTPC	PM & RELAY TESTING	NLDC
138	220 KV DARBHANGA MUZ S/C	2/13/2014	8:00	2/14/2014	18:00	ODB	ER-I	FOR POWER LINR CROSSING WORK OF 800 KV HVDC LINE	BIHAR
139	400 KV RANCHI - SIPAT - I & II	2/14/2014	7:00	2/15/2014	18:00	ODB	ER-I	FOR STRINGING WORK OF 765 KV S/C RANCHI - SIPAT TL	NLDC
140	220 KV BUS - I AT PATNA	2/14/2014	9:30	2/14/2014	17:30	ODB	ER-I	AMP WORK	
141	315 MVA ICT # 2 at Baripada	2/14/2014	9:00	2/14/2014	17:00	ODB	ER-II	OTI installation under NTAMC project	
142	220 KV Siliguri - Binaguri-II	2/14/2014	8:00	2/14/2014	20:00	ODB	ER-II	Retrofitting of CT under ADDCAP	
143	100 MVA ICT - I AT PRN	2/15/2014	9:00	2/15/2014	14:00	ODB	ER-I	AMP WORK	BIHAR
	132 KV AURANGABAD - SONENAGAR D/C (OF	2/15/2014	8·00	2/16/2014	10.00			FOR POWER LINE CROSSING WORK OF 400 KV PSL - DALTANGANJ	
144	BSPHCL)	2/13/2014	8.00	2/10/2014	18.00	ODB		LINE BETWEEN LOC. 51/0-52/0.	BIHAR
145	220 KV BUS - II AT PATNA	2/15/2014	9:30	2/15/2014	17:30	ODB	ER-I	AMP WORK	
	132 kV Sambalpur-Kuchinda & 132 kV Kuchinda-								
146	Rajgangpur (Double ckt portion of LILO 132 kV	2/15/2014	8:00	2/15/2014	18:00	ODB	ER-II	For stringing work of 765 kV S/C Angul-Jharsuguda TL	OPTCL
	S/C Sambalpur-Raigangpur line at Kuchinda)								
147	At Kharagpur : 80 MVAR Bus reactor	2/15/2014	7:00	2/15/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
148	132 KV MUZ - SAMASTIPUR D/C	2/15/2014	8:00	2/16/2014	18:00	ODB	ER-I	FOR POWER LINR CROSSING WORK OF 800 KV HVDC LINE	BIHAR
1/10	At Kharagpur : 400 KV Main Bus II & Kharagpur	2/16/2014	7.00	2/16/2011	15.00				
143	(WB) – Baripada (PG) s/c line	2/ 10/ 2014	7.00	2/10/2014	13.00	ODB	WBSETCL	MAINTENANCE WORK	NLDC
150	220 KV Subhasgram (PG) – EMSS (CESC) Ckt. II	2/16/2014	6:00	2/20/2014	16:00	OCB	WBSETCL	MAINTENANCE WORK	
151	100 MVA ICT - II AT PRN	2/17/2014	9:00	2/17/2014	14:00	ODB	ER-I	AMP WORK	BIHAR

152	220 KV KANIHA - MERAMUNDALI - I	2/17/2014	9:00	2/18/2014	17:00	OCB	NTPC	ANNUAL MAINTENANCE WORK	OPTCL
153	125 MVAR BUS REACTOR - I AT PATNA	2/18/2014	9:30	2/18/2014	17:30	ODB	ER-I	FOR TIE BAY ERECTION WORK FOR 400 KV PTN -KISHANGANJ TL	
154	400 KV KAHALGAON - BARH- II	2/18/2014	9:30	2/19/2014	17:00	OCB	NTPC	PM CT, CVT, LA, CB & ISOLATOR OF MAIN BAY	NLDC
155	400 KV KHLG - BARH - II	2/19/2014	9:00	2/19/2014	17:00	ODB	ER-I	FOR LINE MAINTENANCE WORK	NLDC
156	100 MVA ICT - III AT PRN	2/19/2014	9:00	2/19/2014	14:00	ODB	ER-I	AMP WORK	BIHAR
		2/10/2014	8.00	2/20/2014	18.00		ER-I	FOR POWER LINE CROSSING WORK OF 400 KV PSL - DALTANGANJ	
157		2/13/2014	8.00	2/20/2014	10.00	000		LINE BETWEEN LOC. 45/0-46/0.	BIHAR
158	132 KV NBU (WB) – Siliguri (PGCIL) CKt.	2/19/2014	7:00	2/19/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
159	400 KV KHLG - BARH - I	2/18/2014	9:00	2/18/2014	17:00	ODB	ER-I	FOR LINE MAINTENANCE WORK	NLDC
160	125 MVAR BUS REACTOR - 2 AT PATNA	2/20/2014	9:30	2/20/2014	17:30	ODB	ER-I	FOR TIE BAY ERECTION WORK FOR 400 KV PTN -KISHANGANJ TL	
161	132 KV NJP (WB) - Siliguri (PGCIL) Ckt.	2/20/2014	7:00	2/20/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
162	220 KV KANIHA - MERAMUNDALI - II	2/20/2014	9:00	2/21/2014	17:00	OCB	NTPC	ANNUAL MAINTENANCE WORK	OPTCL
163	132 KV MAIN BUS AT PRN S/S	2/21/2014	9:00	2/21/2014	17:00	ODB	ER-I	AMP WORK	BIHAR
164	132 KV MUZ - VAISHALI S/C	2/21/2014	8:00	2/22/2014	18:00	ODB	ER-I	FOR POWER LINR CROSSING WORK OF 800 KV HVDC LINE	BIHAR
165	132 kV Budhipadar-Tarkera Ckt I & II	2/22/2014	8:00	2/22/2014	18:00	ODB	ER-II	For stringing work of 765 kV S/C Angul-Jharsuguda TL	OPTCL
	2 kV S/C Kuchinda-Rajgangpur (132 kV S/C		2/22/2014	10.00			For stringing work of 765 W/S/C Angul Iborrygudo TI		
166	Sambalpur-Rajgangpur LILO at Kuchinda)	2/22/2014	8.00	2/22/2014	18.00	5.00 UDB ER-11 F		FOR SCHINGING WORK OF 765 KV S/C Angul-Jilar Suguda TE	OPICE
167	220 KV NJP (WB) – Binnaguri (PGCIL) #1	2/22/2014	7:00	2/22/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
168	220 KV NJP (WB) – Binnaguri (PGCIL) #2	2/23/2014	7:00	2/23/2014	15:00	ODB	WBSETCL	MAINTENANCE WORK	
		2/24/2014	7.00	2/25/2014	10.00		FR-I	FOR STRINGING WORK OF 400 KV D/C RANCHI - RANCHI TL - II	
169		2/24/2014	7.00	2/23/2014	10.00			BETWEEN 69/0-70/0.	NLDC
170	221 KV KANIHA - TTPS	2/24/2014	9:00	2/25/2014	17:00	OCB	NTPC	ANNUAL MAINTENANCE WORK	OPTCL
171	220 kV Budhipadar-Tarkera Ckt I & II	2/25/2014	8:00	2/25/2014	18:00	ODB	ER-II	For stringing work of 765 kV S/C Angul-Jharsuguda TL	OPTCL
172	400 KV KAHALGAON - MAITHON - II	2/25/2014	9:30	2/27/2014	17:30	OCB	NTPC	CT REPLACEMENT IN ICT - I MAIN BAY & FEEDER	NLDC
173	132 KV GOPALGANJ SIWAN S/C	2/26/2014	8:00	2/27/2014	18:00	ODB	ER-I	FOR POWER LINR CROSSING WORK OF 800 KV HVDC LINE	BIHAR
174	400 KV FARAKKA - DURGAPUR - II	2/27/2014	9:30	2/27/2014	16:30	ODB	NTPC	PM & RELAY TESTING	
175	222 KV KANIHA - RENGALI	2/27/2014	9:00	2/28/2014	17:00	OCB	NTPC	ANNUAL MAINTENANCE WORK	OPTCL
176	132 KV MASHRAKH - SIWAN S/C	2/27/2014	8:00	2/28/2014	18:00	ODB	ER-I	FOR POWER LINR CROSSING WORK OF 800 KV HVDC LINE	BIHAR
177	400 kV Rourkela-Sundargarh-Raigarh I & II	2/28/2014	8:00	2/28/2014	18:00	ODB	ER-II	For stringing work of 765 kV S/C Angul-Jharsuguda TL	NLDC

Annexure-C.2

Anticipated Power Supply Position for the month of Feb-14

LUNC MAR Mul Image: I	SL.NO		P A R T I C U LA R S	PEAK DEMAND	ENERGY	
IIPHAR IIPHAR IIPHAR IIPHAR IIIIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIIIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIIPHIN IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIIPHIN IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIIPHIN IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIIPHIN IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIPHAR IIIPHIN IIPHIR <b< th=""><th></th><th>MW</th><th>MU</th></b<>				MW	MU	
1) Net Proves Availability - Own Source 1.11 1.27 1) Net Proves Availability - Own Source 1.01 7.25 2 Image: Net Availability - Own Source 5.66 2.85 1) Net Proves Availability - Own Source 6.66 2.85 1) Net Proves Availability - Own Source 6.66 2.85 1) Net Proves Availability - Own Source 6.66 2.85 1) Net Proves Availability - Own Source 6.66 2.85 1) Net Ava ComMon Drown 1 7.75 7.85 1) Net Availability - Own Source 6.66 2.86 1) Net Availability - Own Source 7.20 7.75 1) Net Availability - Own Source 7.20 7.21 1) Net Availability - Own Source 7.20 7.26 1) Net Availabi	1	-		2270	1155	
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Image: Control of the second of the		iii)	SURPLUS(+)/DEFICIT(-)	-567	-204	
2 INNERTING UNABLE MADIN 10 NET POWER AVAILABILITY- Own Source 556 326 10 SUPPUSF()/CFECT(-) 61 39 3 IN SUPUSF()/CFECT(-) 61 39 4 IN SUPUSF()/CFECT(-) 61 39 5 IN SUPUSF()/CFECT(-) 61 39 6 IN SUPUSF()/CFECT(-) 61 39 7 IN SUPUSF()/CFECT(-) 721 735 10 SUPUSF()/CFECT(-) 320 701 735 10 SUPUSF()/CFECT(-) 320 709 735 10 SUPUSF()/CFECT(-) 320 709 735 10 SUPUSF()/CFECT(-) 324 717 735 10 SUPUSF()/CFECT(-) 324 717 735 11 SUPUSF()/CFECT(-) 324 717 735 10 NET MAX DEMAIN 500 207 717 10 NET MAX DEMAIN 700 </td <td></td> <td>,</td> <td></td> <td></td> <td></td>		,				
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in NET POWER AVAILABILITY Own Source Central Sector 556 326 in SUBPLUS(-)/DEFCIT(-) 61 -89 in NET MAX DEMAND (0WN) 2755 1555 in NET MAX DEMAND (0WN) 2753 1555 in NET MAX DEMAND (0WN) 270 2753 in NET MAX DEMAND (0WN) 270 2753 in NET MAX DEMAND (0WN) 2700 2700 inst atem Billanci Biosoft 1400 401 598 in SUBPLUS(-)/DEFILIT(-) 721 725 in SUBPLUS(-)/DEFILIT(-) 7200 144 in SUBPLUS(-)/DEFILIT(-) 7280 1495 in SUBPLUS(-)/DEFILIT(-) 7201 1234 in SUBPLUS(-)/DEFILIT(-) 7201 1234 in SUBPLUS(-)/DEFILIT(-) 720 1246 in NET MAX DEMAND 5038 1495 in SUBPLUS(-)/DEFILIT(-) 7331 1495 in NET MAX DEMAND 175		i)	NET MAX DEMAND	1100	700	
Image: Central Sector 605 336 image: SURPLUS(-)/DEPLOT(-) 61 -39 image: Central Sector 2450 2255 image: Central Sector 260 220 image: Central Sector 1043 137 image: Central Sector 2350 2466 image: Central Sector 2350 2466 image: Central Sector 2350 2466 image: Central Sector 2350 1364 image: Central Sector 2350 1364 image: Central Sector 2350 1366		ii)	NET POWER AVAILABILITY- Own Source	556	285	
Image: Book Construction (1)			- Central Sector	605	326	
3 by DVC (mathematical (Lipor)) Vert POWER AVAILABILITY: Own Source (2.6877) Vert POWER AVAILABILITY: Own Source (2.6977) Vert POWER AVAILABILITY: Own SOURCE		111)	SURPLUS(+)/DEFICIT(-)	61	-69	
i) NET MAD EXAMAL BURNYD (WNN) NET POWER AVAILABULTY OWN SOURCE CERTRAI Sector 2755 465 465 270 465 270 1900 1900 1900 1900 1900 1900 1900 19	3		DVC			
III) III) III)NET POWER AVAILABILITY: OWN Source .central Sector4450 426 14002261 1273III) III)SURPUSU(-)/DEFCIT(-)1400841 1200III) III)NET AVAILABILITY: OWN Source .central Sector2280 10431405 1538III) III)NET AVAILABILITY: OWN Source .central Sector1043 15481455 1548III) III)NET AVAILABILITY: OWN Source .central Sector1043 15481475 1548III) III)NET AVAILABILITY: OWN Source .central Sector1043 15481475 1548III) III) III TOTAL WASEDCL SEMAND5500 15382446 1470III) IIII IIII IIII IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	-	i)	NET MAX DEMAND (OWN)	2755	1555	
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Image and instruct instru			- Central Sector	426	270	
IIII SURPLUS(-)/DEFICIT(-) 721 725 4 IV ORISSA			Long term Bi-lateral (Export)	1400	841	
Image: state s		iii)	SURPLUS(+)/DEFICIT(-)	721	735	
Number III Number IIII Number IIIII Number IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			ORISSA			
in Instruction June iii Instruction 1409 iii Supplus(s)()/EERCT() 1043 iii) Supplus(s)()/EERCT() 132 5.1 WEST BENGAL 1409 iversity WEST BENGAL 438 iversity 100 100 iversity 100 100 <td>4</td> <td>i)</td> <td></td> <td>3500</td> <td>2190</td>	4	i)		3500	2190	
Image: Number of the sector of the		., ii)	NET POWER AVAILABILITY- Own Source	2780	1495	
III) SURPLUS(+)/DEFICIT(-) 324 -137 5.1 III) WEST BENGAL WISSEDCL IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		,	- Central Sector	1043	558	
S Vest BENGAL WestBOLD Vest BENGAL WestBOLD Vest BENGAL WestBOLD Summary State (ESC) DRAVAL Summary State (ESC) DRAVAL <t< td=""><td></td><td>iii)</td><td>SURPLUS(+)/DEFICIT(-)</td><td>324</td><td>-137</td></t<>		iii)	SURPLUS(+)/DEFICIT(-)	324	-137	
5 WEST BENGL 5.1 WEST BENGL 10 NET MAX DEMAND (DWN) 11 SECC 11 NET MAX DEMAND (DWN) 11 TOTAL WEST DEL'S DEMAND 11 TOTAL WEST DEL'S DEMAND 111 NET MAX						
S.I. WESEDL i) NET MAX DEMAND (OWN) 5200 2475 ii) RET MAX DEMAND (OWN) 5200 2475 iii) TOTAL WISEDCL'S DEMAND 5638 2486 iv) NET POWER AVAILABILITY - Own Source 3750 1984 - Import from DPL 0 32 - - Central Sector 2219 1906 32 v) SURPLUS(+)/DEFICIT(-) 1331 1436 5.2 DPL - - - v) SURPLUS(+)/DEFICIT(-) 300 207 - ii) NET MAX DEMAND 300 207 - iii) NET MAX DEMAND 0 32 - ii) NET MAX DEMAND 1470 645 ii) NET MAX DEMAND 1470 645 vi) NET MAX DEMAND 138 0 vi) SURPLUS(+)/DEFICIT(-) 38 0 vi) SURPLUS(+)/DEFICIT(-) 38 0 vii	5		WEST BENGAL			
1) NET MAX DEMAND (UNN) 5000 2475 1) ESCS DRAWAL 438 11 11) ESCS DRAWAL 5638 2486 11) NET POWER AVAILABILITY Own Source 3750 1984 11) NET POWER AVAILABILITY Own Source 3219 1906 11) NET POWER AVAILABILITY 1331 1436 5.2 DPL - - - 11) NET MAX DEMAND 300 175 - 11) NET MAX DEMAND 300 2077 - 11) NET MAX DEMAND 300 207 - 11) NET MAX DEMAND 1470 645 - 11) NET MAX DEMAND 1470 645 - 11) NET MAX DEMAND 1470 645 - 10) NET POWER AVAILABILITY - OWN SOURCE 1470 645 - 11) NET MAX DEMAND 1470 645 - 10) NET POWER AVAILABILITY - OWN SOURCE 138 645 - 110) NET POWER AVAILABILITY - OWN SOURCE	5.1	.,	WBSEDCL	5300	2.475	
Initial CLCS SHORNAL Total WBSEDCL'S DEMAND 100 111 101 TOTAL WBSEDCL'S DEMAND 5638 2466 101 NET FOWER AVAILABILTY Own Source 3750 1984 101 TOTAL WBSEDCL'S DEMAND 3219 1906 101 SURPLUS(+)/DEFICIT(-) 1331 1436 5.2 DPL - - - 11 NET MAX DEMAND 300 175 11 NET MAX DEMAND 300 207 11 SURPLUS(+)/DEFICIT(-) 0 32 5.3 CESC - - 11 NET MAX DEMAND 1470 645 111 SURPLUS(+)/DEFICIT(-) 138 0 113 SURPLUS(+)/DEFICIT(-) 38 0 111 TOTAL AVAILABILITY 1508 645 111 TOTAL AVAILABILITY OWN SOURCE 138 0 111 TOTAL AVAILABILITY OWN SOURCE 138 0 1111 TOTAL AVAILABILITY OWN SOURCE 1435 <td></td> <td>1) ;;)</td> <td>NET MAX DEMAND (OWN)</td> <td>5200</td> <td>24/5</td>		1) ;;)	NET MAX DEMAND (OWN)	5200	24/5	
iv) NET POWER AVAILABILITY Own Source 3750 1994 - Import from DPL 0 32 - Central Sector 3219 1906 SURPLUS(+)/DEFICIT(-) 1331 1436 5.2 DPL		iii)	TOTAL WBSEDCI'S DEMAND	5638	2486	
· Import from DPL · Central Sector 0 32 · Central Sector 3219 1906 S2 DPL 1331 1436 · In NET MAX DEMAND 300 175 · IN NET MAX DEMAND 300 207 · IN NET POWER AVAILABILITY 300 207 · IN NET POWER AVAILABILITY 0 32 S.3 CESC - - - · IN NET POWER AVAILABILITY - OWN SOURCE 1070 645 · IN NET POWER AVAILABILITY - OWN SOURCE 1070 645 · IN TOTAL AVAILABILITY - OWN SOURCE 1070 645 · IN TOTAL AVAILABILITY - OWN SOURCE 1070 645 · IN WEST BENGAL (WBSEDCL+DPL+CESC) - 2224 · IN NET POWER AVAILABILITY - OWN SOURCE 5119 2224 · IN NET MAX DEMAND -Central Sector 3219 1906 · IN NET MAX DEMAND -Central Sector 3219 1906 · IN		iv)	NET POWER AVAILABILITY- Own Source	3750	1984	
- Central Sector 3219 1906 st.2 DPL 1331 1436 st.2 DPL 300 175 ii) NET MAX DEMAND 300 207 iii) NET MAX DEMAND 300 207 iii) NET MAX DEMAND 300 207 iii) NET MAX DEMAND 0 32 st.3 CESC 6 645 iii) NET MAX DEMAND 1470 645 iii) NET MAX DEMAND 1470 645 iv SURPLUS(+)/DEFICIT(-) 38 0 iii) NET MAX DEMAND 438 11 iiii) TOTAL AVAILABILITY - OWN SOURCE 1070 645 iv SURPLUS(+)/DEFICIT(-) 38 0 0 iii) NET MAX DEMAND 6970 3295 1435 iii) NET MAX DEMAND 136 1435 1435 iii) NET POWER AVAILABILITY - OWN SOURCE 1610 6 6			- Import from DPL	0	32	
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		,	(ii)-(i)			

Annexure-D5 Extract of CERC order dated 19.12.2013 on SCADA DATA Telemetry Petition No. 56/SM/2013 (Suo Motu) Quote:

17. We are at pains to observe that despite the Commission's sustained initiative for the implementation of the statutory mandate, the progress achieved is far from satisfactory. We are constrained to place on record that the overall scenario is very precarious. Accordingly, we issue the following directions:

(a) POWERGRID shall complete the telemetry on all its sub-stations within six months of the issue of order failing which action under Section 142 of the Act may be initiated. After six months, NLDC/ RLDC shall submit status report in this regard.

(b) Notice under <u>section 142 of the Electricity Act, 2003</u> be issued against utilities which have not responded to NLDC as contained in the **Annexure** to this order.

Extract of CERC order dated 19.12.2013 on SCADA DATA Telemetry Petition No. 56/SM/2013 (Suo Motu)

(c) The State Load Desspatch Centres shall be responsible for arranging compliance of the relevant telemetry provision viz. Regulation 4.6.2 of the Grid Code in their respective control area. They need to take necessary action including reporting the method to respective State Regulatory Commissions for taking action against utilities not complying with the Grid Code.

(d) Clause 6 (3) of the Central Electricity Authority (Technical Standard for connectivity to the grid) Regulations provides;

......"The requester and user shall provide necessary facilities for voice and data communication and transfer of online operational data, such as voltage, frequency, line flows and status of breaker and isolator position and other parameters as prescribed by the appropriate load dispatch centre".

Contd...

Extract of CERC order dated 19.12.2013 on SCADA DATA Telemetry Petition No. 56/SM/2013 (Suo Motu)

(e) If it is found that after **six months** any utility has not provided required telemetry, a **disconnection notice** may be sent to them by concerned State Utilities.

(f) RLDCs should upload latest status of telemetry as submitted to the Commission vide affidavit dated 25.09.2013 in the RLDC web site. The progress of compliance from various utilities shall be mentnioned with respect to this data.

:UnQuote

Extract of the Electricity Act, 2003

Quote:

"142. Punishment for non-compliance of directions by Appropriate Commission:

In case any complaint is filed before the Appropriate Commission by any person or if that Commission is satisfied that any person has contravened any of the provisions of this Act or the rules or regulations made thereunder, or any direction issued by the Commission, the Appropriate Commission may after giving such person an opportunity of being heard in the matter, by order in writing, direct that, without prejudice to any other penalty to which he may be liable under this Act, such person shall pay, by way of penalty, which shall not exceed one lakh rupees for each contravention and in case of a continuing failure with an additional penalty which may extend to six thousand rupees for every day during which the failure continues after contravention of the first such direction."



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