

Minutes of 142nd OCC Meeting

Date: 13.03.2018 Eastern Regional Power Committee 14, Golf Club Road, Tollygunge Kolkata: 700 033

Minutes of 142nd OCC Meeting held on 23rd February, 2018 at ERPC, Kolkata

List of participants is at Annexure-A.

Shri J. Bandyopadhyay, Member Secretary, EPRC chaired the meeting. He welcomed Shri P. Mukhopadhyay, ED, ERLDC and all the other participants in the meeting.

Thereafter, he requested EE (PS), ERPC to take up the agenda points in seriatim.

Item no. 1: Confirmation of minutes of 141st OCC meeting of ERPC held on 18.01.2018

The minutes of 141st OCC meeting were uploaded in ERPC website and circulated vide letter dated 31.01.2018 to all the constituents.

Members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes of 141st OCC meeting.

PART A : ER GRID PERFORMANCE

Item no. A1: ER Grid performance during January, 2018

The average consumption of Eastern Region for January - 2018 was 371.8 MU. Eastern Region has achieved maximum energy consumption of 386 MU on 29th January - 2018. Total Export schedule of Eastern region for January - 2018 was 2426.9 MU, whereas actual export was 2182.3 MU.

ERLDC may present the performance of Eastern Regional Grid covering the following:

- 1. Over drawal/under injection by ER Entities
- 2. Performance of Hydro Power Stations during peak hours
- 3. Performance of ISGS during RRAS

Deliberation in the meeting

ERLDC presented the performance of the Eastern Region grid during January 2018. Presentation is enclosed at **Annexure- A1**.

It was opined in the meeting that NTPC should not decrease the DC suddenly citing coal stock problem. It should be informed at least one day in advance.

OCC advised NTPC to submit their station wise coal stock position to ERLDC on daily basis while declaring DC on day ahead.

ERLDC informed that high voltage was observed at 400kV Arambagh and Sagardighi S/s on continuous basis and Sagardighi units are not absorbing VAR during high voltage condition.

WBPDCL informed that they were unable to change the GT tap position and OEM support is also not available. They are trying for local vendor to change the GT tap position.

OCC advised WBPDCL to take the issue seriously and take appropriate action to absorb reactive power during high voltage condition as per their capability curve.

MS, ERPC informed that a special meeting would be held at ERPC, Kolkata among NLDC, ERLDC, PTC, ERPC and Bhutan on 27th March,2018 tentatively to discuss the issues of power injection pattern of Tala and Chuka hydro generating stations of Bhutan at the Indian Periphery.

ERLDC explained the wide spread blackout on 19.01.18 in DVC system and informed that the total load of DVC system is being catered by the 220/132kV ATRs at Jamshedpur, CTPS, DTPS, Kalyaneswari, Giridih, Koderma and Ramgarh. The ATRs at CTPS, Kalyaneswari and DTPS remain heavily loaded and tripping of any ATR is likely to trigger cascade tripping and loss of major load in DVC system.

Moreover, during shutdown or forced outage of 220kV Jindal-Jamshedpur tie or nil generation at Bokaro-B, the only 315MVA, 400/220kV ICT at Bokaro-A gets severely overloaded. In the event of loss of 400kV Bokaro-A-Koderma D/C line, the Bokaro-A station has little chance of survival as the existing 315MVA, 400/220kV ICT at Bokaro is insufficient to evacuate the station generation.

It has also been observed that, during low generation at CTPS-B, the 220kV Bokaro-B – CTPS-B D/C line gets heavily overloaded and (n-1) security criteria was not satisfied.

In view of the aforesaid facts, ERLDC stressed that DVC needed to expedite strengthening of its transmission system for achieving long term adequacy and till such time, to cope with the rising demand, suitable load / generation rejection schemes may be urgently implemented to automatically shed load/generation with tripping of associated line / ATR.

Considering the seriousness of the issue, OCC referred the issue of DVC to TCC for further guidance.

Item no. A2: Commissioning of new transmission elements in Eastern Region

The details of new units/transmission elements commissioned in the month of January - 2018 based on information furnished by the constituents are depicted below:

| SL NO | Element Name | Owner | Charging Date | Charging Time | Remarks |
|----------|--|-----------|------------------|------------------|--|
| 1 | 400kV Jharsuguda - Rourkela - IV | Powergrid | 02-01-18 | 17:06 | LILO of 400kV Rourkela Raigarh IV at Jharsuguda |
| 2 | 125MVAR Bus reactor at Rourkela | Powergrid | 05-01-18 | 0:16 | Replacement of old 50MVAR Bus Reactor |
| 3 | 400Kv Jharsuguda - Rourkela - III | Powergrid | 05-01-18 | 22:19 | LILO of 400kV Rourkela Raigarh II at Jharsuguda |
| 4 | 400kV Jharsugud – Raigarh - III | Powergrid | 05-01-18 | 22:25 | LILO of 400kV Rourkela Raigarh II at Jharsuguda |
| 5 | 400 KV Sasaram – Daltonganj - II | Powergrid | 31-01-18 | 23:32 | Charged on No load basis |
| 6 | 400KV Bus - I at Daltonganj | Powergrid | 31-01-18 | 23:32 | |
| 7 | 63 MVAr line Reactor of 400 KV Sasaram - Daltonganj II at Daltonganj | Powergrid | 31-01-18 | 23:32 | |
| 8 | 132 KV Chapra(New) - Chapra | BSEB | 26.12.17 | | |
| 9 | 132 kV Sonebarsa -Kuseshwarshtan | BSEB | 08.01.18 | | |
| 10 | 132 kV Jehanabad - Ataula ckt-II | BSEB | 14.01.18 | | |
| 11 | 132 kV Jainagar - Madhubani | BSEB | 27.01.18 | | |
| 12 | 132 kV Jainagar - Jhanjharpur (LILO at Loc No.162 at Jainagar) | BSEB | 27.01.18 | | |

| 13 | 132 kV Jhanjharpur - Phoolparas | BSEB | 27.01.18 | | |
|----|---------------------------------|------|----------|--|--|
|----|---------------------------------|------|----------|--|--|

Constituents may update.

Deliberation in the meeting

OPTCL updated that 132kV Paradip-Jagathsinghpur line LILO at 132kV Tirtol along with 40 MVA, 132/33kV Transformer was charged first time on 5th January 2018.

Item no. A3: Persistent over drawl by West Bengal and Odisha

Over drawl figure of West Bengal and Odisha from 01-02-2018 to 07-02-2018 are shown below:

| State | West | Bengal | Odisha | | |
|----------|-----------------------|--|--------|-------------------------|--|
| Date | Over Drawl (MU) | Over Drawl Max. Over (MU) Drawl (MW) | | Max. Over Drawl (MW) | |
| 01-02-18 | 0.397 | 312 | 2.463 | 452 | |
| 02-02-18 | 2.609 | 469 | 2.920 | 459 | |
| 03-02-18 | 2.080 | 451 | 2.825 | 413 | |
| 04-02-18 | 2.372 | 453 | 2.971 | 515 | |
| 05-02-18 | -0.255 | 345 | 1.651 | 422 | |
| 06-02-18 | 1.045 | 273 | 2.601 | 378 | |
| 07-02-18 | 0.964 | 427 | 3.131 | 429 | |

In 141st OCC, over drawl pattern of West Bengal and Odisha was deliberated in details. Some improvement in West Bengal and Odisha Drawl pattern has been observed during January which is most possibly due to decrease in system demand during winter season. However, till date Februry-2018, West Bengal average over drawl quantum is increased to 1 to 2 MU whereas for Odisha over drawl quantum is increased to around 2 to 3 MU per day.

With the onset of summer, system demand of Odisha and West Bengal system is expected to increase further. The problem would be compounded with the outage of thermal units and less water reservoir level in hydro generators of Odisha. This may lead to further increase in over drawl and the situation may be worsened further.

In view of above, West Bengal and Odisha are advised plan accordingly to maximize their internal generation availability and increase their power purchase quantum in STOA/Power Exchange or from any other source in future to avoid any over drawl during February and March.

ERLDC may present. WBSETCL and Odisha may explain.

Deliberation in the meeting

ERLDC informed that the overdrawal pattern of West Bengal and Odisha had been improved in February 2018 but overdrawal during morning peak needed to be taken care of.

OCC advised West Bengal and Odisha to meticulously plan their generation to balance the load by maximizing the availability of their internal generation and arranging procurement of power through STOA/ MTOA/ Power Exchange. They should not lean on the grid bridging the gap between demand and supply.

OCC referred to TCC for further advice.

Item no. A4: Reactive Power performance of Generators

| Power Plant | Max and Min Voltage | Date for occurrence (Jan 18) |
|----------------|--------------------------|------------------------------|
| | observed for Jan 18 (KV) | |
| Farakka STPS | 425, 410 | 27,12 |
| Khalgaon STPS | 422, 409 | 8,12 |
| Talcher STPS | 414, 395 | 2,7 |
| Teesta-v | 425,398 | 27,05 |
| Bakreshwar TPS | 413, 394 | 10, 29 |
| Kolaghat TPS | 426, 405 | 10,3 |
| Sagardighi TPS | 426, 411 | 4,6 |
| MPL | 419, 408 | 9,18 |
| Mejia-B | 422, 410 | 6,8 |
| DSTPS | 422, 412 | 8,20 |
| Adhunik TPS | 423, 408 | 8,22 |
| Barh | 424, 409 | 3,12 |
| JITPL | 418, 408 | 8,22 |
| GMR | 417, 404 | 8,9 |
| HEL | 429,398 | 15,26 |
| Kodarma | 422, 407 | 3,3 |

Generating stations have been monitored for certain sample dates in the month of January,18.

ERLDC may present the reactive performance.

Deliberation in the meeting

ERLDC presented the performance of the generators. Presentation is enclosed at Annexure-A4.

ERLDC informed that Farakka #3 was injecting VAR during high voltage.

OCC advised NTPC to take appropriate action to absorb reactive power during high voltage condition as per their capability curve.

ERLDC added that they were unable to monitor the performance of Sagardighi units because of non-availability of data. The RTU is not reporting since January 2018.

WBPDCL agreed to resolve the issue.

Item no. A5: Restricted Governor /Free Governor Mode Operation of generators in ER

Generating units are requested to share change in generation output recorded at the terminal of generating units for the following events.

1. On 10.01.2018 at 17:34Hrs, Due to Loss of Evacuation path 1050 MW Generation loss occurred at Teesta-III, Dikchu, Tashding. Frequency changed from 50.02 Hz to 49.96 Hz.

 On 30.01.2018 at 10:46Hrs, Due to Fault at Korderma S/s , Generation loss of 1250 Mw & Load Loss of 350 Mw occurred at Koderma & Bokaro S/S. Frequency changed from 49.90 Hz to 49.84 Hz.

ERLDC may present.

Deliberation in the meeting

ERLDC presented the performance of the generators. The presentation is enclosed at **Annexure-A5**.

ERLDC added that response of most of the generators was unsatisfactory and some generators are giving negative response which needed to be attended immediately.

OCC advised all the generators to go through the details in Annexure-A5 and take appropriate action to improve the performance.

OCC referred the issue to TCC Meeting for further guidance.

Item no. A6: UFR operation during the month of January'18

System frequency touched a maximum of 50.29 Hz at 21:59 Hrs of 31/01/18 and a minimum of 49.62 Hz at 20:48 Hrs of 31/01/18. Hence, no report of operation of UFR has been received from any of the constituents.

Members may note.

Deliberation in the meeting

Members noted.

Item no. A7: Non-compliance of directions issued by SLDC

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

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

No report from any constituent has yet received. Hence, ERLDC would be considering 'Nil' report for all constituents for January18.

Members may note.

Deliberation in the meeting

Members noted.

| Item no. A8: | Grid incidences | during the mon | th of January, 2018 |
|--------------|-----------------|----------------|---------------------|
|--------------|-----------------|----------------|---------------------|

| Sr No | GD/ GI | Date | Time | S/S involved | Summary |
|----------|-----------|------------|-------|-----------------|---|
| 1 | GD-I | 10/01/2018 | 17:34 | Teesta III | At 17:34 hrs tripping of 400 kV Binaguri - Rangpo - II on R-Y-N fault initiated of SPS - I operation which resulted in tripping of B/C at Teesta III and unit tripping at Tashiding. As only one unit was in service at Chujachen and Dikchu, no generation reduction occurred due to operation of SPS - I. Though power flow through 400 kV Binaguri - Rangpo - I was more than 850 MW for less than 350 ms(as per PMU data), SPS - II operated resulting tripping of 400 kV Teesta III - Rangpo S/C and the running unit at Teesta III and Dikchu. |
| 2 | GD-I | 14/01/2018 | 23:20 | Purnea | 220/132 kV ICT - II at Purnea, 132 kV Purnea - Kishangunj S/C and 132 kV Purnea - Purnea III were under shut down. At 23:20 hrs 132 kV Purnea - Purnea I & II tripped from BSPTCL end only due to operation of O/C relay. |
| 3 | GD-I | 19/01/2018 | 12:23 | Kalyaneswari | During normalization of 220 kV bus II at Kalyaneswari, 220 kV bus I failed along with bus tie breaker resulting tripping of all connected lines and ATRs at 12:25 hrs. Subsequently 220/132 kV ATR I, II & III tripped on O/C. DSTPS #4 tripped at same time as its auxiliary power was supplied through 220/132 kV ATRs at DSTPS. |
| 4 | GD-I | 20/01/2018 | 13:28 | Sahebgunj | At 13:28 Hrs, 132 KV KhSTPP-Lalmatia and 132 KV Kahalgaon (BSPHCL)-Lalmatia tripped from Lalmatia end only, leading to load loss at Sahebgunj. |
| 5 | GD-I | 30/01/2018 | 10:46 | Koderma | Due to problem in tie CB of 400 kV Koderma - Gaya - II and 400 kV Koderma - Biharshariff - II, all 400 kV lines i.e. 400 kV Koderma - Biharshariff D/C, 400 kV Koderma - Gaya D/C & 400 kV Koderma - Bokaro A D/C along with all 400/220 kV ICTs at Bokaro A & Koderma tripped resulting loss of total power supply at Koderma and Bokaro A and running units at Koderma & BokaroA. |

Members may note.

Deliberation in the meeting

Members noted.

Item no. A9: Reporting of voltage deviation indices (VDI) for select S/Stns in ER

ERLDC submitted the Voltage Deviation Index (VDI) of selected 400 kV Sub-stations for January 2018 of Eastern Region which is enclosed at **Annexure- A9**.

Members may note.

Deliberation in the meeting

Members noted.

PART B: ITEMS FOR DISCUSSION

Item No. B.1: Implementation of Automatic Generation Control

For better frequency control by utilisation of spinning reserves, CERC vide order no 11/SM/2015 dated 13-10-2015 has approved introduction of AGC in the country. A pilot implementation at Dadri TPS in NR is already operating successfully. However, it is now required to introduce AGC on regional basis considering each region as a control area.

In Eastern Region it is therefore necessary to identify a power station for participation in AGC, based on several enabling factors such as healthiness of generator control system, availability of wideband communication with ERLDC etc.

Members may discuss and decide.

Deliberation in the meeting

NTPC informed that they are in the process of formulating a plan to implement AGC at recently commissioned station Barh STPS-II. Unit #4 & 5 of Barh STPS are being considered for AGC implementation. However, the work involved would require 6-7 months for implementation. Moreover, at present complete wideband communication with Barh STPS-II is not yet established.

OCC advised NTPC to place their implementation plan in TCC meeting.

Item No. B.2: Automatic Under Frequency Load Shedding (AUFLS) and mapping of Feeders -NPC

In 7th NPC, it was agreed that there is need for review of the quantum of load shedding and introduction of additional slabs/stages of frequency.

NPC sought the views of RPCs on the review of quantum of load shedding and stages of frequency.

| 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 |

Present load relief of ER is given below:

It was also agreed that the RPCs to initiate the process of mapping of feeders covered under AUFLS scheme to have a real time assessment of load-relief likely to be available under the scheme if it operated.

Members may discuss and decide.

Deliberation in the meeting

Members opined that it is more appropriate to decide the quantum of load shedding and stages of frequency for AUFLS scheme at National level.

It was informed that mapping of feeders covered under AUFLS scheme had been implemented for all the states.

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Item No. B.3: CONTINGENCY PLAN TO MEET DEFICIENT / EXCESS RAILFALL DURING MONSOON -CEA

The anticipated monthly demand profile in respect of various states and the annual maintenance plan of various generating units of has been received from Eastern Region. It is understood that this data is based on normal monsoon scenario. However, a poor or excess monsoon activity, sudden excess silt in the river, and such other contingencies may lead to increased demand – supply gap in the region(s) or county. Each RPC needs to be fully prepared to meet such credible contingencies.

In the above background, it is requested to estimate the impact (in terms of average MW) of various contingencies including the above ones, on the demand and availability in respect of each state/ UT for the months of June to September,2018, and an implementable action plan be prepared for handling the contingency situation like deficit or delayed monsoon, excessive monsoon, flooding of mines or damaging of railway network or situation of high silt(in the Northern Region during July-August),etc, Implementable concrete steps like identification of flexible plant outages, maintaining sufficient coal stock at critical plant sites and diversion of coal via alternate route may also be identified and documented by each RPC. Contingency arising out of failure of transmission towers also needs to be considered and preparedness by the CTU/STUs to meet the same using ERS be examined and outcome/action plan documented. The Ministry of Power has desired that the aforesaid contingency plan be made ready by this month end.

Members may submit the contingency plan.

Deliberation in the meeting

OCC advised all the constituents to send their contingency plan within a week to mserpc-power@nic.in.

Item No. B.4: Status of Implementation of Enquiry Committee Recommendations

9.4 Ensuring primary frequency response from generators:

In Petition No. 84/MP/2015, Date of order: July 31, 2017 section 23 (a), CERC noted

- ... the Commission, starting from the month of September, 2017 shall be closely watching the primary response of ISGSs as reported by POSOCO/NLDCs.
- At the State level, SLDCs shall report the frequency response of intra-State generators to the concerned SERCs."

To comply with this order, ERLDC is sending the primary response of all ISGS/IPP in the region to NLDC. Reports from all RLDCs are in turn compiled by NLDC and submitted to the Hon'ble Commission.

DVC informed that they are calculating the RGMO response of their generators and sending to ERLDC.

OCC advised other SLDCs to monitor performance of the generators under their control area.

Deliberation in the meeting

OCC referred the issue to TCC for further guidance.

9.9 Optimum utilization of available assets:

9.9.2 An audit of devices such as HVDC, TCSC, SVC and PSS should be done immediately to ensure that their stability features are enabled. Further, exercise of PSS tuning should be planned and implemented. Settings of these dynamic stabilizing devices should be reviewed at appropriate intervals.

In 2007 Based on a system study (Prof. Kulkarni) were proposed the following units to be equipped with PSS devices:

- 1. Kolaghat stage II 400 kV U#4.5.6.(201MW each)of WBPDCL;
- 2. Farakka U#4,5 (500MW each)of NTPC;
- 3. U.Kolab 4 units (80 MW each) of OHPC;
- 4. Budge Budge U# 1,2,(250 MW) of CESC Ltd.

Thereafter, PSS tuning of all units were carried out with the help of BHEL Service Manager, Shri K. Partha Sarathi in the presence of Prof. Kulkarni except Budge Budge units. PSS tuning of Budge-Budge unit 1&2 of CESC has been carried out on 28th &29th July, 2015.

Deliberation in the meeting

OCC opined that for identifying the generators for PSS tuning, a fresh study is needed to be done as per the existing network. OCC referred to TCC for further guidance.

Powergrid informed that they are planning to conduct audit for HVDC, TCSC and SVC in April 2018.

9.10.2 Possibility of voltage collapse prediction, sensing global power system conditions derived from local measurements may be explored.

Deliberation in the meeting

OCC felt that the issue could be taken up in National forum.

9.11 Need of Dynamic Security Assessment and review of State Estimation: In order to assess the system security in real time and assess the vulnerability condition of the system, dynamic security assessment need to be periodically carried out at the control centers. A proper review and upgradation of the state estimation procedure is required to improve the visibility and situational awareness of the system.

Dynamic Security Assessment is propsed to be covered in NLDC SCADA upgradation package. State Estimation is currently in working condition at ERLDC.

Deliberation in the meeting

ERLDC informed that Dynamic Security Assessment is proposed to be covered in NLDC SCADA upgradation package. State Estimation is currently in working condition at ERLDC.

9.12 Implementation of islanding schemes: Efforts should be made to design islanding scheme based on frequency sensing relays so that in case of imminent grid failure, electrical islands can be formed. These electrical islands can not only help in maintaining supply to essential services but would also help in faster restoration of grid.

Latest status is enclosed at Annexure-B5.

No islanding scheme is available in Odisha, Bihar and Sikkim.

Deliberation in the meeting

OCC opined that an islanding scheme for Kanti generating units with Bihar load might be explored.

OCC advised Bihar and NTPC to discuss and place the details in next OCC.

OCC advised OPTCL to give a presentation on CPP islanding scheme existing in Odisha with the details of extending power capacity to Odisha during emergencies.

OCC advised OPTCL to place their plan for IbTPS islanding scheme in the next OCC meeting.

9.13 Autonomy to Load Despatch Centres

9.13.1 As National Grid is on the horizon, homogenization of system operation philosophy is need of the hour. The present organizational set up of Load Despatch Centres need to be reviewed. System operation needs to be entrusted to Independent System Operator (ISO). In addition, SLDCs should be reinforced and ring fenced for ensuring functional autonomy.

Deliberation in the meeting

OCC opined that it is beyond the purview of this forum. The issue should be taken up with Govt. of India by a National forum.

9.13.2 Training and certification of system operators need to be given focused attention. Sufficient financial incentives need to be given to certified system operators so that system operation gets recognized as specialized activity.

Deliberation in the meeting

Members updated the status of certification of system operators as follows:

| State | Status of certification of system operator |
|-------------------|---|
| SLDC, West Bengal | Operators will appear for certification in March 2018 |
| SLDC, Odisha | Complied |
| SLDC, DVC | Complied |
| SLDC, Jharkhand | 4 operators were certified |
| SLDC, Bihar | Training has been completed but yet to appear in |
| | exam for certification |
| SLDC, Sikkim | No information received |

OCC referred to TCC for further guidance.

9.14 Development of Intra-State transmission system

Intra-State transmission system needs to be planned and strengthened in a better way to avoid problems of frequent congestion.

In 30th TCC/ ERPC held on 19/20th June, 2015 constitution of Standing Committee on Transmission Planning for State Sector was approved by ERPC. In this forum of ERPC various proposals for system strengthening schemes of Eastern Region mainly under state sector/s (STU) will be discussed.

Deliberation in the meeting

It was informed that various proposals for system strengthening schemes of Intra-State transmission system are being discussed in Standing Committee on Transmission Planning for State Sector Meetings.

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9.15 Network visualization

9.15.2 The Communication network should be strengthened by putting fibre optic communication system. Further, the Communication network should be maintained properly to ensure reliability of data at Load Despatch Cenres.

Deliberation in the meeting

ED, ERLDC informed that the issue is being deliberated in SCADA O & M meeting and an agenda of non – availability of last mile fiber connectivity is being placed in 37th TCC / ERPC meeting.

9.15.3 RTUs and communication equipments should have uninterrupted power supply with proper battery backup so that in case of total power failure, supervisory control and data acquisition channels do not fail.

Deliberation in the meeting

ED, ERLDC informed that this matter is already discussed for Powergrid substations and pointed out in approved report of replacement of old RTU / SAS in ER by ERPC. The same is under implementation by POWERGRID for their part.

9.16 Reduction in Start-up time for Generators

Deliberation in the meeting

Mock black start excises are being conducted regularly for Hydro generators but for thermal generators, it is difficult to be conducted.

OCC felt that the issue could be taken up in National forum.

9.18 Strengthening of system study groups in various power sector organizations

There is need to reinforce system study groups in power sector organisations to analyse the system behaviour under different network status/ tripping of lines/outage of generators. Where these do not exist, these should be created.

Deliberation in the meeting

It was informed that system study groups have been formed at state level in all states except Sikkim.

Sikkim representative was not available in the meeting for discussion.

9.20. Improved telecom Infrastructure for cyber security

Members may update the latest status.

Deliberation in the meeting

ERLDC informed that, in line with Enquiry Committee Recommendation, cyber security audit is being conducted on regular basis for SCADA system installed at ERLDC and SLDC as well but cyber security audit for telecom infrastructure installed in Eastern Region is not being carried out.

OCC advised all the constituents to conduct the cyber security audit on telecom infrastructure installed in Eastern Region. It is further advised that compliance / mitigation of the points

observed during the audit should also be completed for improvement of the telecom infrastructure in ER.

MS, ERPC informed that a presentation on Cyber Security in Power Sector is also planned to be conducted at 37th TCC/ERPC meeting.

OCC referred the issue to TCC for further deliberation.

Item No. B.5: Status of projects funded under PSDF schemes

In the PSDF review meeting, it was advised to RPCs to monitor the status of all the projects funded by PSDF. Therefore, constituents are requested to update the status of projects which are being funded by PSDF in the desired format.

| SN | Name of | Name of Project | Date of | Target Date | PSDF | Amount | Latest status |
|----|-------------|---|----------------|---|----------------|-----------------------|---|
| | Constituent | | approval | of | grant | drawn till | |
| | | | 1rom PSDF | Completion | (in Rs.) | (in Rs.) | |
| 1 | WBSETCL | Renovation & up-gradation of protection system of 220 kV & 400 kV Substations in W. Bengal | 31-12-14 | April 2018 | 108.6 Cr | 18.26 Cr. | 100 % Supply is Completed 92% Erection is completed |
| 2 | | Renovation & modernisation of transmission system for relieving congestion in Intra-State Transmission System. | 22-05-17 | 19 months from date of release of 1 st instalment | 43.37 | Nil | Agreement signed. Bank A/c opened & PFMS mapping is in process. |
| 3 | | Installation of switchable reactor at 400kV & shunt capacitors at 33kV | 22-05-17 | 25 months from date of release of 1 st instalment | 70.13 | Nil | Agreement signed. Bank A/c opened & PFMS mapping is in process. |
| 4 | WBPDCL | Implementation of Islanding scheme at Bandel Thermal Power Station | 10.04.17 | March 2018 | 1.39 Cr | | Award placed to ABB. Material delivery by Dec, 17. Most of the materials have reached the site and the installation would commence soon. |
| 5 | | Upgradation of Protection and SAS | | | 23.48 | | Approved by Ministry of Power. Fresh tendering is in progress. |
| 6 | OPTCL | Renovation & Up-gradation of protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies. | 10.05.15 | 10.05.17 | 162.5 Cr. | 16.25 Cr + 8.91 Cr | Total contract awarded for Rs. 51.35 Cr |
| 7 | | Implementation of OPGW based reliable communication at 132kV and above substations | 15.11.201 7 | | 25.61 Cr. | | |
| 8 | OHPC | Renovation and up-gradation of protection and control system of 4 nos. OHPC substations. | | U.Kolab- March 19 Balimela- Feb 2019 U.Indravati- Jan 19 Burla-Nov 2018, Chiplima Dec 2018 | 22.35 Cr. | | Tendering under progress. |
| 9 | BSPTCL | Renovation and up-gradation of 220/132/33 KV GSS Biharshariff, Bodhgaya, Fatuha, Khagaul, Dehri -on-sone & 132/33 kV GSS Kataiya | 11/5/201 5 | 31.03.2018 | 64.22 crore | 23.68 crore | Project is on going. Contract awarded for Rs.71.37 Cr till date. |
| 10 | | Installation of capacitor bank at different 35 nos. of GSS under BSPTCL | 5/9/2016 | 12 th March 2019 | 18.88 crore | Nil | Work awarded for 9 nos of GSS. |

| 11 | | Renovation & up-gradation of protection and control system of 12 nos. 132/33 KV GSS under BSPTCL. | 02.01.17 | 31 st March 2018 | 49.22 Cr. | | Kept on hold. Revised DPR may be submitted. |
|-----|-----------|--|-------------------|--|-----------|--|---|
| 12 | JUSNL | Renovation and up-gradation of protection system | September 2017 | 138.13 crores | | | Approved by Appraisal Committee. LOA will be issued to PRDC in March 2018. |
| 13 | DVC | Renovation and upgradation of control & protection system and replacement of Substation Equipment of 220/132/33 kV Ramgarh Substation | 02.01.17 | 01.06.2019 | 25.96 Cr | 2.596 Crore on 01.06.201 7 | Work awarded for 28.07 Cr. |
| 14 | | Renovation and upgradation of control & protection system including replacement of substation equipment at Parulia, Durgapur, Kalyaneshwari, Jamshedpur, Giridih, Barjora, Burnpur, Dhanbad and Burdwan Substation of DVC | 27.11.17 | 24 Months from the date of release of fund. | 140.5 Cr. | 1 st installmen t of 14.05 Cr. received on 21.12.201 7 | Work awarded for 6.45 Cr. |
| 15 | POWERGRID | Installation of STATCOM in ER | | June 2018 | 630.28 Cr | 63.028 Cr | work is in progress, eexpected to complete by June 2018 |
| 16 | ERPC | Creation & Maintenance of web based protection database and desktop based protection calculation tool for Eastern Regional Grid | 17.03.16 | Project is alive from 30 th October 2017 | 20 Cr. | 4.94 Cr. + 9.88 Cr. | Protection Database Project has been declared 'Go live' w.e.f. 31.10.17. Pending training on PDMS at Sikkim and 3rd training on PSCT has been also completed at ERPC Kolkata. |
| 17a | ERPC | Training for Power System Engineers | | | | | The proposal was approved by Appraisal Committee. The |
| 17b | | Training on Power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents | | | | | proposal was sent to CERC. CERC has sought some queries from the Appraisal Committee. The matter shall be taken up by the Appraisal Committee during its next meeting. |

Respective constituents may update the status.

Deliberation in the meeting

Members updated the latest status as mentioned in above table.

Item No. B.6: Charging of 220/132 kV 160MVA ICT-1 & 400/220 kV 315 MVA ICT-1 of Daltonganj SS from 132kV side

Powergrid vide letter dated 10.02.2018 informed that Daltangunj SS of Powergrid is ready for charging in all respect and both 400KV Sasaram - Daltangunge line has already been charged on 31.01.2018.

Further CTU has advised for charging of 220/132 kV ,160MVA ICT-1 & 400/220 kV, 315 MVA ICT-1 of Daltonganj SS from 132kV side (through charging from 132 kV Dalatonganj Daltonganj Line -I of JUSNL). Accordingly the following elements will be charged at Daltonganj SS:

1) 132kV Line bay no. 106 (Daltonganj Line-1 bay) along with 132kV Main Bus

2) 220/132 kV 160MVA ICT-1 through 132 kV bay no. 102

3) 220 kV Bus-1 & 2 through charging bay no. 201 & 211

4) 400/220 kV 315MVA ICT-1 through 220kV bay no. 203

5) 80 MVAR Bus Reactor

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After 24 hours charging of ICTs on no-load, it will be synchronized from 400kV side "or " Alternatively if synchronisation is not possible, charging of 220/132 kV, 160MVA ICT-1 & 400/220 kV, 315 MVA ICT-1 from 400KV side along with the 132KV line simultaneously for power flow in radial mode.

JUSNL vide letter dated 8th February 2018 informed that ERLDC has considered only one unit of TVNL for load flow analysis of 132 kV Dalatonganj Daltonganj Line. This will increase the loading of 220kV Ranchi(PG)-Hatia II line. Details are enclosed at **Annexure-B6**.

Members may discuss.

Deliberation in the meeting

POWERGRID and JUSNL agreed to settle the issues bilaterally in a separate meeting at Daltanganj on 26th February 2018 and above elements would be charged as per the plan.

Item No. B.7: Methodology for Submitting the Status of New Transmission Elements/ Generating Units to be Commissioned within the State

For clear visibility of the Eastern Region networks and better system operation, all the new transmission elements (ISTS & STU links) need to be updated regularly. The commissioning of new transmission elements of ISTS lines has been processed and updated by RLDC whereas commissioning of STU lines has been processed by SLDCs. However, commissioning status of new STU lines of states has not been updated to ERLDC and ERPC regularly. Sometime SLDCs used to submit the status of their new commissioning of elements during OCC meeting. To regularize the process following methodology need to be adopted:

- 1. Transmission elements/ Generating units expected to be commissioned during next month need to be submitted to ERLDC/ERPC in every OCC.
- 2. Detail parameters of new transmission element before commissioning need to be shared with RLDC.
- 3. Detail date and time of synchronization need to be updated on real time to ERLDC after commissioning of any new Transmission element/Generating unit.
- 4. SLDC SCADA team needs to configure the new element in their SCADA and share the same to ERLDC SCADA for network update.
- 5. List of the new transmission elements/ generating units commissioned during last month need to inform RLDC/RPC within 7th day of the current month, so that same to be updated in OCC.

In 141st OCC, all the constituents were advised to submit the information within 7th day of the month to following mail ids:

- erldcam@gmail.com
- ftcer@posoco.in
- mserpc-power@nic.in

However, only Bihar and West Bengal have submitted their list to ERLDC/ERPC within time line and no one has submitted any update on expected transmission elements planned to be commissioned during next month.

Members may discuss.

Deliberation in the meeting

OCC advised all the other constituents to submit the information in time to following mail ids:

• erldcam@gmail.com

- ftcer@posoco.in
- <u>mserpc-power@nic.in</u>

Item No. B.8: Approval of outage procedure and Submission of outage request to ERLDC as per procedure-ERLDC

The procedure for transmission element outage was approved in 87th ERPC meeting. After this some minor modifications in the approved procedure was also done. As per the procedure following need to be adhered by the outage indenting parties while applying OCC approved transmission element outages to ERLDC for approval:

- Request for outages which are approved by OCC must be sent by the indenting agency of the transmission asset at least 3 days in advance to respective RLDC by 1000 hours. (For example, if an outage is to be availed on say 10th day of the month, the indenting agency would forward such requests to the concerned RLDC on or before 7th day of the month by 1000 hours.)
- 2. In case the request for transmission element outage is not received within the timeline prescribed above, it will be assumed that the indenting agency is not availing the outage. However, indenting agency is duty bound to inform ERLDC at least 3 days in advance, if it is not availing the OCC approved outage.

Since last few months it was observed that some of the indenting agencies were deviating from submission dates corresponding to their OCC approval date while submitting their request, which causes a lot of inconvenience to coordinate with multiple agencies and also to carry out system study before approve the outage request. In some cases, indenting agencies were also not intimated ERLDC/ERPC in advance for cancellation of any outage approved in OCC.

Detail outage procedure as on date is updated in ERLDC website.

In this regard, it is advised to all indenting agencies to follow the updated outage procedure while submitting any outages to ERLDC/ERPC. All beneficiaries are also requested to go through the outage procedure and give their comments if any modification required.

Members may approve the updated outage procedure available in ERLDC website.

Deliberation in the meeting

OCC advised all the constituents to go through the outage procedure and give their comments to erldcam@gmail.com and ftcer@posoco.in, if any modification is required.

WBSETCL informed that availing shutdown information pertaining to WBSETCL should be intimated to them at least one day in advance.

ERLDC agreed.

Item No. B.9: Difficulty for issuance of Planned/Emergency outage of Inter Regional lines due to ownership issues

Generally line maintenance responsibility of various inter-regional lines lies with the concerned regions up to their jurisdiction as decided within the regions in their internal meetings. However, the responsibility for outage verification of the line lies with only one region between the two for submission of outage data to respective RLDC/RPC for availability certification. E.g 400kV transmission lines in ER-NR corridor like 400kV Patna-Balia-Q/C and 400kV Biharsariff-Balia-D/C lines, maintenance activity lies on both NR-3 and ER-1 region of Powergrid as per their agreed jurisdiction while for transmission element availability calculation purpose NR-3 is submitting the line outage data to NRLDC/NRPC for outage verification/certification, due to which for any outage of these lines NR-3 availability is affected. Due to this when ER-1 is availing any outage in respect of 400kV Patna-Balia-Q/C and 400kV Biharsariff-Balia-D/C, NR-3 is not willing

to allow this shutdown due to reduction of its availability factor which leads to difficulty for getting consent from NLDC and NRLDC during outage approval process.

In this regard, it is advised that, transmission licensee shall submit the ownership region name with whom the availability responsibility lies to ERLDC/ERPC for all ER inter-regional links and outage duration of the line shall considered for availability calculation purpose as per the regulation irrespective of which region is taking the line shutdown permission.

Members may please note.

Deliberation in the meeting

ERLDC informed that they are facing difficulty for getting consent from NLDC and NRLDC during outage approval process because of ownership issues.

OCC advised PGCIL to confirm the ownership for all ER inter-regional links especially for ER-NR corridor.

Item No. B.10: Ratification of projected Demand and generation for POC transmission charges and loss calculations for Q1(2018-19)

The projected Demand and Generation of ER constituents to be considered in the base case for POC transmission charge and loss calculations for Q1 (April 18-June 18) are attached at **Annexure-B10** for ratification by the constituents.

Members may kindly go through and confirm.

Deliberation in the meeting

It was informed that validation committee meeting would be held on 26th February 2018.

OCC advised all the constituents to go through the details and confirm.

Item No. B.11: Recovery of loss due to schedule revision during flodding of Kishanganj S/S of PGCIL-Teesta Urja Ltd.

Due to flooding at Kishanganj S/S of PGCIL, the IEX schedule of Teesta-III HEP and other Projects was directed to be revised from 10:00 hours to 24:00, hours on 13.08.2017. However, vide subsequent communications, the curtailment of schedule was initially directed to start from 10.00 hrs, which got changed to 10.30 hrs and again to 10.00 a.m. However, the IEX schedule which had got curtailed from 10.30 hrs could not get revised to 10.00 hrs leading to the Teesta-III (and other Projects) being penalized under DSM for two time blocks from 10.00 hrs to 10.30 hrs.

In 141st OCC, it was informed by ERPC that request for discrepancy in schedule should have been pointed out much earlier. Request for revision for old cases might not be considered in future. In the instant case, schedule for collective transaction was not revised. Post facto revision of schedule of collective transaction is not feasible. Further, payment for the scheduled transaction had been received by Teesta Urga Ltd. Therefore, to accommodate the request for schedule revision with retrospective effect for DSM, payment received from collective transaction needed to be disclosed. Otherwise, there is a possibility of double accounting, leading to excess payment due to revision.

Teesta Urga Ltd. vide letter dated 13th February 2018 informed that for the two blocks from 10:00 to 10:30 hrs on 13.08.2017, the total deviation charges levied on Teesta Urga Ltd. is ₹ 12,06,362 whereas for the same blocks, Teesta Urga Ltd has received ₹ 2,61,610 from the Power Exchange (IEX) resulting in a net loss of ₹ 9, 44,752.

Members may discuss.

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Deliberation in the meeting

The issue was deliberated in details in the meeting. It was decided to adjust the amount from DSM Pool as a special case. However, in future, this type of claim, if any, must be brought to the notice of ERPC and ERLDC immediately, failing which this type of request would not be entertained.

Item No. B.12: Revision of final schedule of Dikchu HEP and revocation of UI penalty inflicted on 13.08.2017- Dikchu

On 13.08.2017, Dikchu was advised by ERLDC through mail and phone to back down the generation to Zero w.e.f 10:00 hrs, 13.08.2017, as all STOA & collective transactions were cancelled due to flooded condition at Kishanganj S/s. Dikchu plant was shut down promptly within 10:01 hrs.

The final schedule of Dikchu HEP was revised to Zero w.e.f 10:30 hrs by NLDC. The consequence was that as per final generation schedule data, although Dikchu was able to generate 96 MW in between 10:00 hrs to 10:30 hrs, Dikchu generation was Zero in real time incurring heavy UI penalization.

It is requested to consider the merit of the incidence and accord consent in revision of the final schedule of 13.08.2017 from 10:00hrs to 10:30 hrs to Zero in respect of Dikchu HEP.

In 141st OCC, it was informed by ERPC that request for discrepancy in schedule should have been pointed out much earlier. Request for revision for old cases might not be considered in future. In the instant case, schedule for collective transaction was not revised. Post facto revision of schedule of collective transaction is not feasible. Further, payment for the scheduled transaction had been received by Dikchu HEP. Therefore, to accommodate the request for schedule revision with retrospective effect for DSM, payment received from collective transaction needed to be disclosed. Otherwise there is a possibility of double accounting, leading to excess payment due to revision.

Subsequently no further information was received from Dikchu.

Members may note.

Deliberation in the meeting

Dikchu representative was not present. Further, no information regarding the payment received by Dikchu from Power Exchange was also furnished.

Item No. B.13: Failure of Real time telemetry

a) In geographically located area of North Bengal and Sikkim to ERLDC:

On 06th December 2017 at 17:26 hours, there was failure of real time SCADA data of 17 nos Central Sector station to ERLDC due to communication failure between Malda – Farakka OPGW link. The real time data restored at 09:37 Hours of 07th December 2017.

The real time SCADA data of North Bengal & Sikkim is totally dependent on availability of Malda – Farakka communication link. The path redundancy of Malda – Farakka communication link must be planned and implemented by POWERGRID so that such failure could be avoided.

The real time SCADA data failure of 17 nos Central Sector station to ERLDC due to communication failure Malda – Farakka OPGW link has been discussed in 141st OCC meeting held on 18th January 2018 wherein POWERGRID pointed out the alternate communication path

could be established after installation of OPGW communication link between Purnea 400 kV to Biharshariff 400 kV. This link is owned by M/s East North Interconnection Company Limited (A subsidiary of Sterlite Power Transmission Limited).

POWERGRID may update

Deliberation in the meeting

M/s East North Interconnection Company Limited (ENICL) informed that OPGW is already available in the line but laying of approach cable inside the POWERGRID sub-stations & termination at both end to communication Mux is pending. ENICL added that the same is under discussion at their end for early implementation of the same.

b) Muzzaffarpur S/S to ERLDC:

Real time SCADA data from Muzaffarpur is not available at ERLDC since 14:00 Hrs of 04/01/2018. Telemetered data of Muzaffarpur substation is significantly important not only to ERLDC but also for NLDC as it has international interconnections with Nepal and Inter-regional tie-lines with Northern Region.

Real time SCADA data failure has been intimated to Muzaffarpur Substation and POWERGRID ERTS-1 ULDC team as well on number of occasions; verbally over phone, & through mail & letter dated 16.01.18 but the same is yet to be rectified.

POWERGRID may update

Deliberation in the meeting

POWERGRID informed that real time SCADA data from Muzaffarpur Sub-station was restored on 14.02.18.

ERLDC informed that availability of real time SCADA data from Muzaffarpur sub-station is quite essential because of its inter-state, inter-regional as well as inter-national connectivity with Nepal hence early restoration of data is highly expected.

POWERGRID informed that delay in restoration was due to delay in AMC award for old RTU which is under process and it would be awarded by 05.03.18.

c) Motihari S/S to ERLDC:

Real time SCADA data from Motihari S/S is not available at ERLDC since 09:42 Hrs of 28/10/2017. Real time SCADA data failure has been intimated to Motihari Substation (M/s DMTCL) on number of occasions; verbally over phone & through but the same is yet to be rectified.

DMTCL may update

Deliberation in the meeting

ERLDC informed that real time SCADA data from Motihari Sub-station was restored on 16.02.18.

d) Farakka STPS to ERLDC:

Real time SCADA data from Farakka STPS stage #3 SAS is not available at ERLDC since 10:32 Hrs of 09/09/2017. Real time SCADA data failure has been intimated to NTPC Farakka Generating station on number of occasions; verbally over phone & through but the same is yet to be rectified.

NTPC may update

Deliberation in the meeting

NTPC informed that they are in the process of replacing the SAS which is in tendering stage.

e) NLDC Bhutan to Back up NLDC India:

Real time data communication between NLDC Bhutan main and Back up NLDC India located at ERLDC, Kolkata is down since 15th September 2017. Due to the same, ERLDC not getting real time SCADA data of Tala HPS, Chukha HPS, Malbase S/s and Dagachu HPS. The matter has been informed to NLDC Bhutan on several occasions but same is yet to restore. NLDC Bhutan is requested to restore the real time SCADA data communication at the earliest.

Bhutan may update

Deliberation in the meeting

Concerned representative from NLDC Bhutan (M/s BPC) was un-available in the meeting for deliberation on the subject.

OCC referred the issue to TCC for further deliberation.

Item No. B.14: Replacement of old RTUs in Eastern Region for reporting of RTU/SAS to backup control centres

35th ERPC advised ERLDC to convene a separate meeting a form a committee with CTU/POWERGRID as nodal agency for assessment of old RTUs of Central Sector and further necessary action on replacement. Subsequently, two meeting were held at ERLDC,Kolkata on 09th June-2017 and 4th August-2017. The report has been finalized by the committee based on the suggestions received from the various committee members.

In 36th TCC/ERPC meeting, ERPC approved the proposal of replacement of RTU as submitted by the committee constituted as per advice of ERPC. The Committee report is enclosed. The scope of Replacement of RTUs in Eastern Region comprises of following:

A. Replacement of RTUs and Upgradation of SAS:

Replacement of existing S-900 and C264 RTUs installed in ULDC phase-I along with upgradation of RTU/SAS/ Remote Operation RTUs for dual reporting to both Main ERLDC & Backup ERLDC over IEC 60870-5-104 Protocol and lack of maintenance support due to non-availability of spares.

| S.n | Region | Name of Substations | Remarks |
|-----|--------|---------------------|------------------------------|
| 1 | ER-II | Durgapur | RTU to be replaced |
| 2 | ER-II | Malda | RTU to be replaced |
| 3 | ER-II | Binaguri | RTU to be replaced |
| 4 | ER-II | Siliguri220 | RTU to be replaced |
| 5 | ER-II | Birpara | RTU to be replaced |
| 6 | ER-II | Subhasgram | RTU to be replaced |
| 7 | ER-II | Dalkhola | RTU to be replaced |
| 8 | ER-II | Gangtok | RTU to be replaced |
| 9 | ER-II | Maithon | RTU to be replaced |
| 10 | ER-II | Berhampore | Hardware/License upgradation |
| 11 | ER-II | Rangpo | Hardware/License upgradation |
| 12 | ER-II | NewMelli | Hardware/License upgradation |
| 13 | ER-I | Biharsharif | RTU to be replaced |
| 14 | ER-I | Jamshedpur | RTU to be replaced |

| 15 | ER-I | Purnea 400 | RTU to be replaced |
|----|-----------------|--------------|------------------------------|
| 16 | ER-I | Purnea 220 | RTU to be replaced |
| 17 | ER-I | Sasaram HVDC | RTU to be replaced |
| 18 | ER-I | Muzaffarpur | RTU to be replaced |
| 19 | ER-I | Patna | SAS to be replaced |
| 20 | ER-I | Banka | Hardware/License upgradation |
| 21 | ER-I | Lakhisarai | Hardware/License upgradation |
| 22 | ER-I | Ranchi | SAS to be replaced |
| 23 | ER-I | New Ranchi | Hardware/License upgradation |
| 24 | ER-I | Chaibasa | Hardware/License upgradation |
| 25 | ER-I | Gaya | Hardware/License upgradation |
| 26 | ER-I | Sasaram 765 | Hardware/License upgradation |
| 27 | ER-I | Ara | Hardware/License upgradation |
| 28 | Odisha Projects | Jeypore | RTU to be replaced |
| 29 | Odisha Projects | Baripada | RTU to be replaced |
| 30 | Odisha Projects | Indravati | RTU to be replaced |
| 31 | Odisha Projects | Rourkela | RTU to be replaced |
| 32 | Odisha Projects | Rengali | RTU to be replaced |
| 33 | Odisha Projects | Angul | Hardware/License upgradation |
| 34 | Odisha Projects | Jharsuguda | Hardware/License upgradation |
| 35 | Odisha Projects | Bolangir | Hardware/License upgradation |
| 36 | Odisha Projects | Keonjhar | Hardware/License upgradation |
| 37 | Odisha Projects | Pandiabili | Hardware/License upgradation |
| 38 | Odisha Projects | Talcher HVDC | Hardware/License upgradation |

- B. Implementation of BCU based Substation Automation System at Purnea 220 KV, Ara 220 KV, Birpara220KV, Siliguri220KV, Sasaram S/s in addition to the replacement of RTUs for data reporting to ERLDC through single RTU/SAS as per advice of ERLDC.
- C. Replacement of DCPS for replacement of old DCPS commissioned in ULDC phase-I:

Following old DCPS & UPS in 18 nos. Central Sector locations is decided to be replaced:

| Sr. No. | Location | Item |
|---------|----------------|--------------------|
| 1 | Durgapur | UPS |
| 2 | ERLDC, Kolkata | 2x4 kw DCPS with |
| | | parallel operation |
| 3 | Durgapur | |
| 4 | Kanchanpur | |
| 5 | Barkot | |
| 6 | Jamui | |
| 7 | Maldah | |
| 8 | Siliguri 400 | |
| 9 | Jamshedpur | |
| 10 | Siliguri 220 | |
| 11 | Rengali | |
| 12 | Birpara | |
| 13 | Rourkela | |
| 14 | Purnea 220 | |
| 15 | Indravati | |
| 16 | Muzaffarpur | |
| 17 | Biharsharif | |
| 18 | Sasaram HVDC | |

D. Laying of OPGW in the second circuit of following links commissioned in ULDC Phase-I:

| S/n | Name of links | Length (Km) |
|-----|--|-------------|
| 1 | Rourkela-Talcher | 171 |
| 2 | Durgapur-Jamshedpur | 175 |
| 3 | Durgapur-Farakka | 150 |
| 4 | Biharsharif-Sasaram | 193 |
| 5 | Biharsharif-Kahalgaon | 202 |
| 6 | LILO portion of Biharsharif-Balia at Ara | 12 |
| | Total | 903 |

It is proposed for implementation of the above as 'Upgradation of SCADA/RTUs/SAS in Central Sector stations and strengthening of OPGW network in Eastern Region' through tariff basis and investment made by POWERGRID on this project shall be recovered through tariff.

Members may approve.

Deliberation in the meeting

POWERGRID updated the RTU / SAS replacement list as mentioned in above table which is as per the approved old RTU replacement report.

ERLDC requested POWERGRID to provide 2 x 4 KW of DCPS with parallel operation at ERLDC, Kolkata as per the system requirement.

POWERGRID informed that they are going to use the same technical specification of RTU as mentioned in the approved report. In the meeting, POWERGRID confirmed that with the completion of replacement/up-gradation of RTU / SAS, the existing problem of inability of dual reporting of each sub-station to both the control Centre (ERLDC main as well as ERLDC backup located at New Delhi) and multiple RTU / SAS in a single sub-station will be resolved.

OCC approved the proposal and referred to TCC for further concurrence.

Item No. B.15: Issuance of TOC for DSTPS-RTPS OPGW link by DVC-Powergrid

In 19th SCADA O & M meeting held on 07th April 2017 at ERLDC, Kolkata, POWERGRID informed that they are not able to complete the OPGW work in DSTPS – RTPS in DVC Sector under Microwave Replacement Package due to severe ROW issue. POWERGRID further informed that they have mobilized the team several times but work could not be completed due to heavy ROW / compensation issues related to TL construction resulting non-completion of 2 nos. OPGW drum (approx. 9 Km) out of total 69.182 Km. POWERGRID again informed that this issue is discussed in various forums but the solution is yet to be provided by DVC. DVC informed that they are not able to resolve the issue as this is old ROW / compensation issue related to TL construction. OPGW work in this link could not be completed due to ROW/Compensation issues since September-2013.

In 36th ERPC meeting, matter has been deliberated and DVC informed that they will try to resolve ROW issues by 31st October-2017 otherwise they will provide the necessary certificate. In 20th SCADA O&M meeting held on 15th December-2017, POWERGRID informed that DVC has not yet issued TOC for this link. DVC confirmed that they will issue TOC and request for a letter from POWERGRID. POWERGRID issued the request letter on 20.12.2017. However, TOC is yet to be issued by DVC.

DVC may update.

Deliberation in the meeting

OCC referred the issue to TCC.

Item No. B.16: PPA details for the years 2017-18 to 2019-20

CEA vide mail dated 21st November 2017 informed that it has been decided to estimate the demand and availability of power (energy and peak), initially for the year 2017-18 and subsequently for the years 2018-19 and 2019-20. In this regard, PPA details for the years 2017-18 to 2019-20 are required as per the format enclosed at **Annexure-B16**.

All the constituents furnish the data as per the format to CEA by email: rk.jena@gov.in.

In 140th OCC, Member Secretary, ERPC informed that PPA details of the utility constituents and generators are required by CEA to identify the capacities of the IPPs which are available for fresh PPAs as well as the utility constituents who may utilize these.

OCC advised all the constituents to send the PPA details for the years 2017-18 to 2019-20 as per the format to CEA vide email: rk.jena@gov.in with a copy to mserpc-power@nic.in.

Constituents may update.

Deliberation in the meeting

OCC advised all the constituents to send the PPA details for the years 2017-18 to 2019-20 as per the format to CEA vide email: rk.jena@gov.in with a copy to mserpc-power@nic.in.

Item No. B.17: Option for handling intra-day load/generation variation due to RE or otherwise.

Sub-Group under FOR Technical Committee on Grid Integration of Renewable Energy (RE), with reference to regional cooperation had a meeting on 18.8.2017 in CERC office, New Delhi. Record of proceedings is placed in **Annexure-B17**.

As decided in the meeting various options for handling intra-day load / generation variation due to RE or otherwise, as discussed in the meeting be circulated and discussed with Members of Regional Power Committees and **feedback on the same may be provided to us to facilitate further deliberations and suitable recommendations by the FOR Technical Committee on Grid Integration of RE.**

In 140th OCC, all the members were advised to submit their comments to ERPC vide mail (mserpc-power@nic.in) within ten working days.

Members may update.

Deliberation in the meeting

It was informed that no comments have been received from the constituents.

OCC advised all the members to submit their comments to ERPC vide mail (mserpc-power@nic.in) at the earliest.

PART C: ITEMS FOR UPDATE

Item no. C.1: Status of UFRs healthiness installed in Eastern Region

UFR Healthiness Certification for the month of January, 2018 has been received from CESC, WBSETCL, DVC, JUSNL, OPTCL and BSPTCL.

OCC advised OPTCL to change 33kV Laxmipur feeder with suitable feeder of desired load.

OPTCL may update.

Deliberation in the meeting

Members noted.

Item no. C.2: Status of Islanding Schemes healthiness installed in Eastern Region

At present, the following islanding schemes are in service:

- 1. CESC as a whole Islanding Scheme, CESC
- 2. BkTPS Islanding Scheme, WBPDCL
- 3. Tata Power Islanding Scheme, Haldia
- 4. Chandrapura TPS Islanding Scheme, DVC
- 5. Farakka Islanding Scheme, NTPC

In 108th OCC meeting, respective constituents agreed to certify that the islanding schemes under their control area are in service on monthly basis.

In 134th OCC, JUSNL was advised to submit the healthiness certificate of the UFR and PLCC system related to Farakka islanding scheme at their end.

The healthiness certificate for Islanding Scheme for January, 2018 has been received from NTPC, CTPS, DVC, Tata Power, JUSNL, WBPDCL and CESC.

Members may note.

Deliberation in the meeting

Members noted.

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

GMR, JITPL, Chuzachen, CESC, & NTPC (TSTPS) have submitted the healthiness certificate for the month of January 2018.

In 136th OCC, members felt that healthiness certificate for SPS of 132 kV Muzaffarpur-Dhalkebar D/C line may also be submitted on monthly basis and advised Powergrid to submit the healthiness certificate in every OCC meeting.

In 138th OCC, ERLDC informed that Tashiding HEP is also included under Rangpo SPS, two units of Tashiding HEP will trip on actuation of SPS. However, it will be reviewed in coordination with other generators covered in the SPS.

Powergrid vide mail dated 11-01-2018 informed that the SPS system at HVDC, Talcher and Angul are healthy but SPS system of Rourkela S/S is not in service after the isolation of LILO connectivity with Sterlite.

Powergrid may update.

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Deliberation in the meeting

It was informed that Rangpo SPS was operated successfully as per the scheme on 10th January 2018 and 20th February 2018.

OCC advised Powergrid to submit the healthiness certificate for SPS of 132 kV Muzaffarpur-Dhalkebar D/C line.

OCC advised Powergrid to explore the possibilities for sending Talcher SPS signal to Vedanta/Sterlite via Angul-Jharsuguda or via Rourkela-Jharsuguda.

Item no. C.4: Commissioning of breakers at 400/220kV Indravati (OHPC) S/s

In 141st OCC, it was explained that 3x105 MVA 400/220kV ICT-I tie breaker, 220kV Bus coupler and transfer bus breakers are not in service at 400/220kV Indravati (OHPC) S/s.

OCC advised OHPC to submit the action plan in next OCC meeting.

OHPC may update.

Deliberation in the meeting

OHPC submitted the action plan as follows:

- **1.** 220kV Bus Coupler: CB and CT needed to be replaced. They would restore the Bus coupler by August 2018.
- **2.** 220kV Bus tie: CB and CT needed to be replaced. They would restore the Bus Tie by November 2018.
- **3.** 400kV Tie-1 Breaker: CB and CT needed to be replaced. They would restore the 400kV Tie-I by January 2019.

OCC opined that the target dates given by OHPC for replacement of CT and Breakers is too long and advised to take serious actions to complete the work at the earliest.

Item no. C.5: Controlling overdrawal of states by disconnection of radial feeders -ERLDC

In accordance with IEGC sections 5.4.2 (c) and 5.4.2 (f), feeders for disconnecting demand of every state in the order of their priority for switching off, were identified in the past. However, with growth of network interconnection and load as well as change of load distribution (if any) during the intervening period, it is felt that the list needs reviewing.

All constituents are requested to furnish views regarding their respective identified feeders and indicate the expected load (average and peak) that would be disconnected by switching off the feeders, so that the list can be finalized at the earliest.

Updated list of feeders is yet to be received from OPTCL and DVC.

In 141st OCC, ERLDC presented the list of feeders to be disconnected during overdrawal of states. Presentation is enclosed at **Annexure-C5**.

OCC advised all the constituents to go through the list of feeders in Annexure-C5 and finalize the list.

DVC has submitted the list. The list is circulated with the Agenda.

Members may update.

Deliberation in the meeting

Jhakhand, DVC and OPTCL indicated the intra-state radial feeders in addition to the already identified tie lines, for disconnection during overdrawal. The updated list is enclosed at **Annexure-C5**.

OCC advised all constituents to indicate the average and maximum load relief expected on disconnection of the identified intra-state / tie lines.

Item no. C.6: Implementation of Automatic Demand Management Scheme (ADMS)-ERLDC

The latest status along with proposed logic as follows:

| SI N O | State/Utilit y | Logic for ADMS operation | Implementation status/target | Proposed logic (if different from under implementation logic) |
|--------------|-------------------|---|---|---|
| 1 | West Bengal | F <49.7 AND deviation > 12 % or 150 MW | Implemented on 25.11.16 | F <49.9 AND deviation > 12 % or 150 MW |
| 2 | DVC | F <49.7 AND deviation > 12 % or 25 MW | Implemented on 17.06.2016 | |
| 3 | Bihar | F <49.7 AND deviation > 12 % or 150 MW | 3 months Feeders identified. Communication healthiness needs to be checked. | F <49.9 AND deviation > 12 % or 150 MW |
| 4 | Jharkhand | System Frequency 49.9 Hz AND deviation > 12 % or 25 MW System Frequency 49.9 Hz AND deviation > 12 % or 50 MW System Frequency 49.9 Hz AND deviation > 12 % or 75 MW | 9 Months RTU installation is in progress | Condition 1: Block I feeders will be selected for load shedding Condition 2: Block I & II feeders will be selected for load shedding Condition 3: Block I, II & III feeders will be selected for load shedding |
| 5 | Odisha | System Frequency 49.9 Hz Odisha over-drawl > 150 MW DISCOM over-drawl (40 MW) | 10 Months Sent for PSDF approval. | Logic 2 and 3 is AND or OR, in case it is AND then ADMS may not operated when discom are in schedule but GRIDCO is overdrawing due to less generation at state embedded generators |
| 6. | Sikkim | | | No information furnished by Sikkim |

Members may update.

Deliberation in the meeting

Members updated the latest status as mentioned in above table.

OCC opined that uniform logic should be implemented for all the states. OCC decided to review the logic of ADMS after implementation of the scheme by all the states.

Item no. C.7: Commissioning of 220 kV Patna-Sipara third ckt.

Major load of Capital city Patna is fed from 220 kV Sipara Substation, Further Sipara is conneted with Khagaul as well as Fatuah at 220 kV level. These are also major load centers normally fed in radial mode from Patna (except Fatuah, which is usually supplied radially from Biharshariff). This causes very high loading of 220 kV Patna-Sipara D/C and it did not satisfy N-1 Contingeny criteria for most of the time in last quarter.

The third circuit of 220kV Patna-Sipara line is expected to be commissioned soon, which will help in relieving the loading on other two lines. Further with commissioning of 220 kV Patna-Sipara T/C 220 kV Khagul-Arrah-Pusauli loop may be kept close, which will help in improving system reliability and maintaining better voltage regulation in and around that area.

In view of above BSPTCL may expedite commissioning of 220 kV Patna-Sipara third ckt.

In 141st OCC, BSPTCL informed that testing of bus bar protection is in progress and the line would be commissioned by 31st January 2018.

BSPTCL may update the latest status.

Deliberation in the meeting

BSPTCL informed that the line would be commissioned by end of February 2018.

Item no. C.8: Reactor at 400kV Behrampur

In 140th OCC, Powergrid informed that in view of high voltage at Behrampur they have diverted one 125MVAR reactor to Behrampur and the reactor will be installed by end of December 2017.

In 141st OCC, Powergrid informed that 125MVAR bus reactor would be installed by end of February 2018.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that diversion of Reactor is getting delayed due to Rail gate problem. Reactor would be installed by April 2018.

Item no. C.9: Repeated tripping of 220kV Chuka-Birpara D/c line

In 60th PCC, meeting Powergrid explained that the line is in lightning prone area. The line is getting tripped due to Insulator failures. Powergrid added that line insulators of part of the line which is belongs to Powergrid have been replaced with polymer insulators. The insulator failures during lightning have been reduced. However, the line is getting tripped due to failure of porcelain insulators in 39.8 km stretch which is belongs to Bhutan.

In 138th OCC, DGPC informed that BPC is the owner of part of the line which is belongs to Bhutan. They have already replaced porcelain insulators of 7 to 8 towers with polymer insulators.

In 141st OCC, BPC representative informed that supply order has been placed for insulator replacement and the material will be delivered by January, 2018. The replacement of insulators would be completed by April, 2018.

BPC/DGPC may update.

Deliberation in the meeting

OCC referred the issue to TCC. Minutes of 142nd OCC Meeting

Item no. C.10: Repair/Rectification of tower at location 79 of 132kV Rangpo-Melli D/c line and Chuzachen(Rangpo)-Gangtok transmission lines - Powergrid

Powergrid informed that their patrolling team has observed bent in part of tower no. 79 of 132kV Rangpo-Melli D/c line and Chuzachen(Rangpo)-Gangtok transmission lines which may further degrade the condition of tower.

In 137th OCC, Powergrid informed that tower no. 79 of 132kV Rangpo-Melli D/c line and Chuzachen(Rangpo)-Gangtok transmission lines falls under the jurisdiction of Energy & Power Department, Govt. of Sikkim.

In 141st OCC, Sikkim informed that rectification of the tower has been taken up with Gati. The work would be completed by 2nd week of February 2018.

Powergrid and Sikkim may update.

Deliberation in the meeting

Sikkim representative was not available in the meeting for discussion.

OCC referred the issue to TCC.

Item no. C.11: Replacement of CT at both ends of 400kV Jeerat-Baharampur Line

In 135th OCC, Powergrid agreed to replace 1000/1A CT by 2000/1 A CT at both ends of 400kV Jeerat-Baharampur Line.

WBSETCL and Powergrid may update.

Deliberation in the meeting

Powergrid informed that CT would be replaced in March 2018.

Item no. C.12: Status of Installation of STATCOM in Eastern Region

In the 15th meeting of SCM it was agreed to install STATCOM in combination with mechanically switched Reactors (MSR) and Capacitors (MSC) and co-ordinated control mechanism of MSCs and MSRs at Ranchi, Rourkela, Jeypore and Kishanganj substations in Eastern Region.

The matter was again discussed in the 28th ERPC/TCC meeting held on 12th -13th September, 2014 at Goa, wherein, it was decided that POWERGRID may go ahead with implementation of the STATCOM project in Eastern Region with debt – equity ratio of 70:30 funding. The debt part should be refunded through PSDF and Equity Component (30%) to be funded by POWERGRID to be recovered through regulated tariff mechanism. CTU should initiate the process of availing fund from PSDF.

| SI | Location /Sub- Station | STATCOM - Dynamic Shunt | Mechanically Switched Compensation SI. (MVAr) | | Mechanically Switched Compensation SI. (MVAr) | | Latest status |
|----|---------------------------|----------------------------|---|---------------------|---|--|---------------|
| NO | in ER | (MVAr) | Reactor (MSR) | Capacito r (MSC) | | | |
| 1 | Rourkela | ±300 | 2x125 | | Expected to complete by Mid Feb. 2018 | | |
| 2 | Kishanganj | ±200 | 2x125 | | 70% civil work completed. 30% switchyard equipment supplied. Expected to complete by December 2018 | | |

Powergrid updated the latest status as follows:

| 3 | Ranchi(New) | ±300 | 2x125 | | 80% civil work completed. All switchyard equipment, reactors and 3 transformers supplied. Expected to complete by April 2018 |
|---|-------------|------|-------|-------|---|
| 4 | Jeypore | ±200 | 2x125 | 2x125 | Expected to complete by June 2018 |

Powergrid may update.

Deliberation in the meeting

Powergrid updated that the work is in progress as per the given schedule.

Item no. C.13: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s

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

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

| SI. No. | Name of the transmission line | Completion schedule |
|---------|---|---------------------------------|
| 1. | 2x315MVA 400/220kV Bolangir S/s | |
| a. | LILO of one circuit of Sadeipalli-Kesinga220 kV D/C | Only 7 towers left (Severe ROW |
| | line at Bolangir S/S | problem). By June, 2018. |
| 2. | 400/220 kV Keonjhar S/S | |
| a. | Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line | By Mar, 2018. |
| b. | Keonjhar (PG)-Turumunga(OPTCL) 220kV D/C line | By 2019. |
| 3. | 400/220kV Pandiabil Grid S/s: | |
| a. | Pratapsasan(OPTCL)-Pandiabil(PG) 220 kV D/C line | By Mar, 2018. |

OPTCL may update.

Deliberation in the meeting

OPTCL updated the status as mentioned in above table.

Item no. C.14: 220 kV inter-connecting lines of JUSNL with 2x315 MVA, 400/220 kV sub-stations at Chaibasa, Daltonganj & Dhanbad

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

| SI. No. | Name of the transmission line | Completion schedule |
|---------|--|--|
| 1. | Chaibasa 400/220kV S/s | |
| a. | Chaibasa (JUSNL) – Ramchandrapur (JUSNL) 220kV D/c | The line is yet to be charged from Ramchandrapur end. |
| 2. | Daltonganj 400/220/132kV S/s: | |
| а. | Daltonganj (POWERGRID) – Latehar 220kV D/c | Forest clearance is pending, it will take time. |
| b. | Daltonganj (POWERGRID) – Garhwa 220kV D/c | May, 2018. Forest clearance is pending, it will take time. |
| С | Daltonganj (POWERGRID) – Daltonganj (JUSNL) 132kV D/c | Dec, 2018. Forest clearance is pending, it will take time. |
| d | Daltonganj (POWERGRID) – Chatarpur/Lesliganj 132kV D/c | Matching with S/s, Forest clearance is pending, it will take time. |

| 3. | Dhanbad 400/220 kV S/s: Awarded under TBCB | |
|----|---|--|
| a. | Dhanbad – Dhanbad (Govindpur) (JUSNL) 220kV D/c | Matching with S/s. Forest clearance is |
| | | pending, it will take time. |

JUSNL may update.

Deliberation in the meeting

JUSNL updated the status as mentioned in above table.

Item no. C.15: 220 kV inter-connecting lines of WBSETCL with 400/220 kV, 2x315 MVA Alipurduar & 2x500 MVA Rajarhat sub-stations

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

| SI. No. | Name of the transmission line | Completion schedule |
|---------|--|---------------------|
| 1. | 2x315MVA, 400/220kV Alipurduar sub-station | |
| a. | Alipurduar (POWERGRID) – Alipurduar (WBSETCL) 220kV D/c (<i>Twin moose</i>) | by March 2018 |
| 2. | 2x500MVA, 400/220kV Rajarhat | |
| a. | Rajarhat-N. Town-3 (WBSETCL) 220 kV D/C line | Matching |
| b. | Rajarhat-N. Town-2 (WBSETCL) 220 kV D/C line | June, 2018 |
| С. | Rajarhat- Barasat (WBSETCL) 220 kV D/C line | June, 2018 |

WBSETCL may update.

Deliberation in the meeting

WBSETCL updated the status as mentioned in above table.

Item no. C.16: Erection and commissioning of 02 nos. of 220 kV line bays at KBUNL

Despite of several requests and reminders, KBUNL is not taking up this work seriously and it appears that the initiatives of KBUNL for construction of bay, which is essential for making available second circuit with Samastipur(New) and Motipur are far from satisfactory and the work is yet to start. Presently 220 KV KBUNL- Samastipur (new) (D/C) & 220 KV KBUNL - Motipur (D/C) tr. lines have only one 220 KV bays each at KBUNL end since long & due to this one circuit each from KBUNL to Samastipur (new) & KBUNL to Motipur remain unutilised. Due to unavailability of these bays at KBUNL end, BSPTCL is facing difficulties for synchronising 220 KV line at KBUNL and also unable to shift loading of Biharsharif(PG)-Begusarai D/C T/L on MTPS for off loading of Biharsharif(PG) ICTs and in case of any contingency occurs at DMTCL(D)-Motipur D/C T/L, MTPS-Motipur S/C T/L also tripped at overloading. It is evident that the transmission infrastructure developed by BSPTCL in North Bihar could not be fully utilized causing limitations in power flow as well as power interruption.

The unavailability of bays at KBUNL is affecting the evacuation of power from KBUNL (Generating Station 2*110 MW+2*195MW). So, keeping these lines in loop at KBUNL will enhance the quality, reliability and stability of system. KBUNL may begin the construction and complete commissioning of 2nd bay in minimum possible time in order to avoid crisis arisen due to unforeseen outage of Biharsharif(PG) and DMTCL(Darbhanga).

As such target dates for the start and completion of the above works may kindly be got ensured from KBUNL.

In 140th OCC, KBUNL informed that tender has been floated and the work will be awarded in December 2017. The work will be completed by March 2018.

In 141st OCC, it was informed that the work will be awarded by end of April 2018.

KBUNL may update.

Deliberation in the meeting

It was informed that the work would be awarded by end of April 2018.

BSPTCL informed that the work was getting delayed and they are facing difficulties for synchronising 220 KV line at KBUNL.

OCC referred the issue to TCC for further guidance.

Item no. C.17: Update on status of telemetry

CERC vide order dated 28.02.2016 on Petition No. 007/SN/2014 directed NLDC and respective RLDCs to update the status of telemetry every month at their respective websites and take up the issue of persistent non-availability of data from Generating Stations/substations at RPC meetings for appropriate action.

ERLDC may present.

Deliberation in the meeting

ERLDC presented the latest status of telemetry. Presentation is enclosed at Annexure-C17.

ERLDC informed that Sagardighi, New Farakka SCADA and Lalmatia (NTPC) data are not available. Unit side data of Farakka STPS (Unit #6) and GMR (Unit #1, Unit #2, Unit #3) are also not available to ERLDC.

OCC advised NTPC, WBPDCL, GMR and POWERGRID to take necessary actions to restore the data.

a) Frequent failure of JITPL data to ERLDC:

In 36th TCC, Powergrid agreed to allow JITPL to shift their PLCC modem from Bolangir S/s within a week. JITPL informed that they will shift the modem within a week and they will commission the communication system in another 10 days subject to availability of OEM (ABB) engineers.

TCC advised JITPL to shift the modem as decided and update the status in forthcoming OCC meeting scheduled to be held on 21st September 2017.

In 137th OCC, JITPL informed that they have shifted the PLCC modem from Bolangir to Angul and they will commission the communication system by 15th October 2017.

In 140th OCC, ERLDC informed that JITPL data through PLCC is not yet restored.

In 141st OCC, JITPL informed that data through PLCC will be restored by end of January 2018.

JITPL may update.

Deliberation in the meeting

It was informed that JITPL data through PLCC was restored.

Item no. C.18: Transfer capability determination by the states -- Agenda by NPC

In order to ensure, safe and secure operation of the grid, the states should carry out the power system study for operational planning and power transfer capability through their respective transmission links with the rest of the grid.

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It was decided in the NPC meeting that to begin with, power system study for assessment of operational limits / power transfer capability for each state will be done by the concerned RLDC in association with concerned SLDC. Monthly TTC /ATC will be uploaded by the SLDCs at their respective websites and also communicated to concerned RLDC & NLDC subsequently.

| SI No | State/Utility | TTC import(MW) | | RM(| MW) | ATC (Imp | oort) MW |
|-------|---------------|----------------|--------|--------|--------|----------|----------|
| | | Import | Export | Import | Export | Import | Export |
| 1 | BSPTCL | | | | | | |
| 2 | JUSNL | 885 | | 60 | | 825 | |
| 3 | DVC | 955 | 3065 | 54 | 44 | 901 | 3021 |
| 4 | OPTCL | | | | | | |
| 5 | WBSETCL | | | | | | |
| 6 | Sikkim | | | | | | |

ATC/TTC declared by states for the month of February-2018 is given below:

BSPTCL, OPTCL and WBSETCL may please appraise their respective import TTC and ATC with the assumptions and limiting constraints.

Deliberation in the meeting

ERLDC updated the status as follows:

| 0.10 0.0.00 0. | | | | | | | |
|----------------|---------------|----------------|--------|--------|--------|-----------------|--------|
| SI No | State/Utility | TTC import(MW) | | RM(MW) | | ATC (Import) MW | |
| | | Import | Export | Import | Export | Import | Export |
| 1 | BSPTCL | | | | | | |
| 2 | JUSNL | 885 | | 60 | | 825 | |
| 3 | DVC | 955 | 3065 | 54 | 44 | 901 | 3021 |
| 4 | OPTCL | 1896 | | 84 | | 1812 | |
| 5 | WBSETCL | 3960 | | 300 | | 3660 | |
| 6 | Sikkim | | | | | | |

BSPTCL informed that they were updating the recently commissioned elements in PSSE base case and agreed to send the ATC and TTC figures at the earliest.

Item no. C.19: Updating of GT and ICT Tap position of all EHV transformers

All the generation, transmission and distribution utilities have been requested to go through **Annexure-C19** related to last updated information related to GT/ICT/ATRs available at ERLDC and update the capacity, number, tap details, make (Company name) and other information including addition of new transformers, wherever felt necessary.

OCC advised all the constituents to go through the Annexure and send the updated information to erldcprotection@gmail.com.

Members may update.

Deliberation in the meeting

ERLDC informed that they have received the relevant information from Odisha, WBSETCL and CESC.

OCC advised all the other constituents to send the updated information to erldcprotection@gmail.com.

Item no. C.20: Checklist for submission of updated data for Protection Database

The network data in Protection Database needs to be updated on regular basis on account of commissioning of new elements in the CTU as well as STU networks. Accordingly, a checklist has been prepared which is enclosed in **Annexure-C20**.

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All the constituents are requested to submit the checklist on monthly bases in every OCC/PCC meetings.

In 139th OCC, all the constituents were advised to submit the data to ERPC vide mail (mserpc-power@nic.in) as per the checklist for last three months.

OCC advised all the constituents to submit the data to ERPC vide mail (mserpc-power@nic.in) as per the checklist for last three months.

Constituents may update.

Deliberation in the meeting

Members noted.

Item no. C.21: Time correction of SEMs in Eastern Region – Replacement of heavily drifted SEMs

The issue was discussed in 35th TCC/ERPC meetings and it was felt that the meters with severe drift greater than 10 min need to be replaced first and if replacement is done with Genus then readings are to be collected manually using Laptop till interfacing with AMR is completed. 35th ERPC advised Powergrid to replace the 10% of the heavily drifted SEMs with new Genus make meters in Phase-I. Subsequently drifted meter replacement work of Phase –I for 24 meters have been completed.

As per decision taken in 134th OCC meeting, another 10% heavily drifted meter list was prepared by ERLDC and given to Powergrid for replacement. In 140th OCC it was informed that all the Phase-II meters have been replaced except Kharagpur. Since issue of integration of Genus meter is already resolved, It was also decided that list of meters to be replaced in next phase may be prepared.

Accordingly List of drifted meters to be replaced in Phase-III is placed below:

| | List of drifted meter | s to be replaced in | Phase-III | |
|-----|-----------------------|---------------------|--|----------------|
| SNO | LOCATION | METER SNO | FEEDER NAME | Region |
| 1 | JEERAT (WB) | NP-6445-A | 400 KV JEERAT (WBSETCL) - BERHAMPORE(PG) | ER-II |
| 2 | JEERAT(WB) | NP-6446-A | 400 KV JEERAT (WBSETCL) - SUBHASGRAM | ER-II |
| 3 | RANCHI(PG) | NP-7853-A | 400 KV RAGHUNATHPUR 1 | ER-I |
| 4 | RANCHI(PG) | NP-7871-A | 400 KV RAGHUNATHPUR 2 | ER-I |
| 5 | ALIPURDUAR(PG) | NR-3716-A | 400 KV POLE-3 MAIN BAY-AGRA(NR) | ER-II |
| 6 | ALIPURDUAR(PG) | NR-3718-A | 400 KV POLE-3 TIE BAY AGRA(NR) | ER-II |
| 7 | NEW MELLI(PG) | NR-4620-A | 220 KV JORETHANG(JLHEP)-1 | ER-II |
| 8 | NEW MELLI(PG) | NR-4621-A | 220 KV JORETHANG(JLHEP)-2 | ER-II |
| 9 | TEESTA-III | NR-3714-A | 400 KV SIDE OF TEEST-III HEP GT-1 | ER-II |
| 10 | TEESTA-III | NR-3715-A | 400 KV SIDE OF TEEST-III HEP GT-2 | ER-II |
| 11 | TEESTA-III | NR-4450-A | 400 KV SIDE OF TEEST-III HEP GT-3 | ER-II |
| 12 | TEESTA-III | NR-3720-A | 400 KV SIDE OF TEEST-III HEP GT-4 | ER-II |
| 13 | TEESTA-III | NR-4623-A | 400 KV SIDE OF TEEST-III HEP GT-5 | ER-II |
| 14 | TEESTA-III | NR-3719-A | 400 KV SIDE OF TEEST-III HEP GT-6 | ER-II |
| 15 | TEESTA-III | NR-4456-A | 400 KV TEESTA-III - DICKCHU (MAIN) | ER-II |
| 16 | TEESTA-III | NR-4618-A | 400 KV TEESTA-III - DICKCHU (CHECK) | ER-II |
| 17 | TEESTA-III | NR-4454-A | 400 KV TEESTA-III - RANGPO (MAIN) | ER-II |
| 18 | TEESTA-III | NR-4453-A | 400 KV TEESTA-III - RANGPO (CHECK) | ER-II |
| 19 | JINDAL (GRIDCO) | NP-6502-A | 220KV JAMSHEDPUR (DVC) | ODHISA PROJECT |
| 20 | JAMSHEDPUR (DVC) | NP-6010-B | 220 KV JINDAL | ER-I |
| 21 | GANGTOK(PG) | NP-6026-A | 132KV CHUZACHEN(GATI) | ER-II |
| 22 | RANGPO(PG) | NP-7958-A | 132 KV CHUZACHEN (GATI) | ER-II |

Powergrid informed that they would start the replacement work of Phase III after collecting the SEMs.

Powergrid may update.

Deliberation in the meeting

PGCIL informed that they would start the replacement work of Phase III after collecting the SEMs tentatively in March 2018.

Item no. C.22: Meter related Issues-ERLDC

Due to the meter related issues of following locations energy accounting and its validation is being affected.

| Issue | Location | Meter No | Line | Responsibility | Problem Since | Present Status |
|--|-----------------------|------------------------|------------------------------|-------------------|----------------------|---|
| Non receipt of Data | 1. NPGC | NP-1282-A NP-1287-A | 132 KV Rihand & Sonnagar | BSPTCL | More than 3 month | Not Received. Status is same |
| Installat ion of Check/S tandby | 1.Subhashgram(WB | | 220 KV Subhasgram(PG) D/C | WBSETCL/PG CIL | Charging of Line | As informed by PGCIL, Meter is available at Subashgram and the same to be collected by WBSETCL and to be put into service. |
| | 2. New Town(WB) | | 220 KV Subhasgram(PG) S/C | WBSETCL/PG CIL | Charging of Line | |
| meter | 3. Bantala(WB) | | S/C | CIL | Charging of Line | |
| | 4. EM Bypass(CESC) | | 220 KV Subhasgram(PG) D/C | WBSETCL/PG CIL | Charging of Line | Meter already connected but time synchronisation yet to be done. SEM data is not received by ERLDC |

In 140th OCC, BSPTCL was advised to communicate the problem of downloading the data of NPGC to Powergrid. WBSETCL was also advised to install the meters at the earliest. However NPGC end data is not received by ERLDC. Meter at WBSETCL/CESC end for New Town, Bantala and Subhasgram is yet to be installed.

In 141st OCC, BSPTCL informed that meter received at NPGC and it would be installed within 2 days.

PGCIL/BSPTCL/WBSETCL/may please further update the status.

Deliberation in the meeting

It was informed that the Meters have been installed at all the above locations but the time correction needed to be done at EM Bypass(CESC).

Item no. C.23: Less recording by Joda OPTCL end meter

Meter No NP-5937-A installed at Joda end of 220 Ramchandarpur is recording 10 % to 15 % Less as compared to Ramchandarpur end since 06.12.2017. Subsequently ERLDC vide mail dated 14.12.17 (with a copy to PGCIL) requested OPTCL to check CT/PT connection to the said meter. However the problem is still persisting and GRIDCO accounting is done with Ramchandarpur end meter.

In 141st OCC, OCC advised OPTCL to check CT/PT connections and CT burden first; the meter can be replaced if required.

OPTCL/PGCIL may please further update.

Deliberation in the meeting

OPTCL and PGCIL informed that the issue had been resolved.

Item no. C.24: Replacement of SEM meters/ time drift correction of SEMs installed in 400kV Derang-Phoolpada(PG) D/C line.

JITPL vide letter dated 5th February 2018 informed that there was time drift in SEMs installed in 400kV Derang-Phoolpada(PG) D/C line. Details are enclosed at **Annexure-C24**.

JITPL requested to resolve the long pending issue for which they are incurring loss in billing and DSM.

ERLDC, JITPL and PGCIL may update.

Deliberation in the meeting

POWERGRID informed that they would replace the meters by next day.

Item no. C.25: Mock Black start exercises in Eastern Region – ERLDC

i) <u>The status of black start exercises</u>

The tentative schedule of black-start exercises for F.Y 2017-18 is as follows:

| SI no | Name of Hydro Station | Schedule | Tentative Date | Schedule | Tentative Date |
|-------|--------------------------|--------------------------------------|--|-------------------------------|---|
| | | Test-I | • | Test-II | |
| 1 | U.Kolab | Last week of May, 2017 | 30 th May 2017 | Last Week of January2018 | Done on 9 th January 2018 |
| 2 | Maithon | 1stweek of June 2017 | Completed or 04.04.17 | 1stWeek of February2018 | |
| 3 | Rengali | 2ndweek of June 2017 | Done or 29.06.2017 | Last week of November 2017 | Done on 30 th November 2017 |
| 4 | U. Indarvati | 3rdweek ofJune 2017 | November 2017 | 2ndweek of February2018 | 1 st week of March 2018 |
| 5 | Subarnarekha | 1stweek of October 2017 | Done on 14 ^{tr} October 2017 | 1stweek of January2018 | In mid March 2018 |
| 6 | Balimela | 3rdweek of October 2017 | November 2017 | 1stweek of March 2018 | 1 st week of March 2018 |
| 7 | Teesta-V | 2ndweek of Nov 2017 | | Last week of February2018 | Done on 26 th December 2017 |
| 8 | Chuzachen | Last Week of May2017 | May, 2017 | January2018 | |
| 9 | Burla | Last Week of June 2017 | Dec, 2017 | Last week of February2018 | Done on 29 th January 2018 |
| 10 | TLDP-III | 1 st Week of June 2017 | Done on 20 ^{tr} Dec, 2017. | 2ndWeek of January2018 | |
| 11 | TLDP-IV | Last Week of June 2017 | After Mansoon | 1stWeek of February2018 | Before 12 th March 2018 |
| 12 | Teesta-III | | December 2017 | | Done on 8 th January 2018 |

The black start exercise of Upper Indravati P.H. which was scheduled to be carried out on 09.01.2018 at 11:00Hrs could not be carried out due to transmission line problem and would be performed later.

In 141st OCC, WBSETCL was advised to submit the report on black start exercise of TLDP III to ERLDC and ERPC.

Members may update.

Deliberation in the meeting

Members updated the schedule as mentioned in above table.

ii) Testing of of DG sets by SLDCs

In the event of failure of local supply, the critical function of monitoring and controlling state grids by SLDCs should not get affected. Hence it is essential to maintain the respective DG sets in healthy condition at all times.

SLDCs may confirm whether their DG sets are tested on weekly basis.

SLDCs may confirm. Deliberation in the meeting

JUSNL informed that they have been testing the DG sets on weekly basis.

Odisha, West Bengal and DVC informed that they have been testing the DG sets on monthly basis.

OCC advised all SLDCs to test the DG sets on weekly basis.

Item no. C.26: Schedule for reactive capability tests

The following was status of regarding reactive capability testing:

- a. Adhunik TPS(both units) –Yet to be confirmed by Adhunik
- b. JITPL(both units) After the emergent inspection of OEM(BHEL)
- c. Barh TPS November 2017. Revised schedule yet to be received.
- d. Raghunatpur (both units) by December 2017. Revised scheduled awaited.
- e. GMR (Three units)- January 2018

Testing of reactive capability of the above generating units is pending since long.

Members may update.

Deliberation in the meeting

DVC informed that coal stock position is not good. Hence it would not be possible to test the generators at full load.

ERLDC informed that units could be tested at partial loading and requested DVC to intimate the schedule.

GMR informed that their units would be tested in March 2018.

JITPL informed that testing of unit#1 had been completed in January 2017 and testing of unit#2 was pending.

OCC advised JITPL to send the test results to ERLDC and ERPC.
OCC felt that testing of reactive capability of the above generating units have been pending since long.

OCC referred the issue to TCC for further advice.

Item no. C.27: Installation of PMUs in Eastern Region under URTDSM project

LOA for installation of PMUs in Eastern Region under URTDSM project was awarded to M/s Alstom on 15th January 2014. The contract has to be completed in all respect within 24 months from the award. The status of implementation may be informed since PMU data is very much important to real time shift operator for analyzing the security of the grid. The updated status as furnished in 140th OCC by Powergrid is given at **Annexure-C.27**.

Powergrid vide mail dated 8th January 2018 informed that they are facing difficulty in installation of PMUs at following locations:

- 1. IBEUL: Material delivered at site in the month of August. Accordingly team was deployed for installation. But Due to non-readiness at site the team could not work and has to returned back. Till now permission has not been granted for PMU installation.
- 2. JITPL: Material delivered at site in the month of August. Team was deployed for PMU installation. Due to space constraint the installation could not be done.

POWERGRID may update the status.

Deliberation in the meeting

POWERGRID submitted the updated status of installation of PMUs in Eastern Region under URTDSM project as enclosed at **Annexure-C.27**.

POWERGRID informed that the installation could not be completed at Jindal, Angul due to space constraint. In the meeting, JITPL representative agreed to resolve the issues.

POWERGRID informed that air-conditioning and lighting arrangement in PDC control room at SLDC-Howrah was not yet provided by WBSETCL for PDC installation. The requirement of air-conditioning and lighting in PDC control room at SLDC-Howrah was intimated to WBSETCL during survey on November-2014 but the same is not yet provided. The matter has also been discussed in 20th SCADA O&M meeting held on 15th December 2018 wherein WBSETCL intimated that the same would be done on priority.

OCC advised WBSETCL to provide the air-conditioning and lighting in PDC control room at SLDC-Howrah at the earliest.

PART D:: OPERATIONAL PLANNING

Item no. D.1: Anticipated power supply position during March'18

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of March'18 were prepared by ERPC Secretariat on the basis of Provisional LGBR for 2015-16 and feedback of constituents, keeping in view that the units are available for generation and expected load growth etc. is at **Annexure-D.1**.

ERPC Secretariat is not receiving the actual figures of previous month power supply position in time. All the constituents should furnish the information to ERPC Secretariat by 10th of every month.

Members may confirm.

Deliberation in the meeting

Modified anticipated power supply position for the month of March, 2018 after incorporating constituents' observations is given at **Annexure-D.1**.

Item no. D.2: Shutdown proposal of transmission lines and generating units for the month of March'18

Members may finalize the Shutdown proposals of transmission lines and generating stations for the month of March'18 as placed at **Annexure-D.2**.

- FSTPS unit #4 shutdown from 10th March 2018 for annual maint.
- KhSTPS unit #2 shutdown from 5th to 29th March 2018 for annual Maint.

ERLDC may place the transmission line shutdown. Members may confirm.

Deliberation in the meeting

Approved maintenance programme of generators and transmission elements for the month of March, 2018 is given at **Annexure-D.2.** OCC approved the following generators shutdown:

- FSTPS unit #4 shutdown from 11th March 2018 for 35 days for annual maint.
- KhSTPS unit #2 shutdown from 5th to 25th March 2018 for annual Maint.
- KTPS Unit#5 shutdown from 15th March 2018 for 35 days
- CTPS unit#8 shutdown from 1st April 2018 for 25 days

1. Replacement of defective porcelain insulator with polymer insulator in NR-ER linked inter regional transmission line —Powergrid

Powergrid vide letter dated 10th February 2018 informed the following

1. Installation of polymer insulators in 400 kV Biharsarif – Balia – I & II transmission line: It is to be informed that due to redistribution of transmission lines between Power Grid ER-I and NR-III, the all NR-ER link transmission lines have been transferred to POWER Grid ER-I and being maintained by ER-I. The replacement of Porcelain insulators with polymer insulators in various transmission lines of POWERGRID/ER-I are being replaced in phased manner including the transmission lines transferred to POWERGRID/ER-I from POWERGRID NR-III.

2. As per discussion in 30th ERPC meeting held on 20th June 2015 at Shimla, the outage period for replacement of porcelain insulator with polymer insulator due to flashover in porcelain/anti fog disc type insulators due to environmental pollution is being considered under force majeure condition for calculation of availability by ERPC.

3. As per the record notes of discussion of special meeting of NRPC on 22.07.2008 at New Delhi. It may kindly be recalled that NRPC has considered the outage of lines on account of replacement of porcelain insulator with polymer insulator under force majeure condition for calculation of availability.

In view of above it is requested to consider the outage period for replacement of porcelain insulator with polymer insulator due to flashover in porcelain/anti fog disc type insulators due to environmental pollution of all NR-ER link transmission lines under force majeure condition for calculation of availability

Members may approve.

Deliberation in the meeting

Powergrid informed that due to redistribution of transmission lines between Power Grid ER-I and NR-III, the NR-ER link transmission lines have been transferred to POWER Grid ER-I. The replacement of Porcelain insulators with polymer insulators in various transmission lines of POWERGRID/ER-I are being replaced in phased manner including the additional transmission lines transferred to POWERGRID/ER-I from POWERGRID NR-III.

Powergrid requested to consider the outage period for replacement of porcelain insulator with polymer insulator under force majeure condition for calculation of availability.

OCC advised Powergrid to submit the list of additional lines which were transferred to POWERGRID ER-I and being maintained by ER-I. Further, OCC advised Powergrid to submit the shutdown requisition of these lines separately in advance in monthly OCC meetings as per the 30th ERPC decision.

The outage period for replacement of porcelain insulator with polymer insulator would be considered as force majeure condition for calculation of availability as per the decision of 30th ERPC meeting.

| Item no. D.3: | Prolonged outage of I | Power System | elements in | Eastern Regior |
|---------------|-----------------------|--------------|-------------|----------------|
|---------------|-----------------------|--------------|-------------|----------------|

| Sr. No | Generating Station | Unit Number | Capacity(MW) | Reasons For Outage | Outage Date | |
|--------|-----------------------|----------------|------------------|---|-------------|--|
| 1 | KOLAGHAT | 3 | 210 | MAINTENANCE | 2-Jan-17 | |
| 2 | BAKRESHWAR | 1 | 210 | MAINTENANCE | 3-Jan-18 | |
| 3 | VEDANTA | 1 | 600 | ANNUAL OVERHAULING | 19-Jan-18 | |
| 4 | VEDANTA | 2 | 600 | BOILER PROBLEM | 8-Feb-18 | |
| 5 | ADHUNIK | 2 | 270 | FLAME FAILURE INITIALLY ,LATER GENERATOR VIBRATION | 7-Sep-17 | |
| 6 | JITPL | 1 | 600 | BOTTAM ASH EVACUATION PROBLEM | 30-Dec-17 | |
| 7 | KHSTPP | 1 | 210 | HYDROGEN LEAKAGE IN LLD | 9-Feb-17 | |
| 8 | KOLAGHAT | 3 | 210 | MAINTENANCE WORK | 25-Jan-18 | |
| 9 | DPL | 8 | 250 | MAINTENANCE WORK | 11-Dec-17 | |
| 10 | MEJIA | 5 | 250 | PROBLEM IS IN BARRING GEAR | 22-Sep-17 | |
| 11 | CTPS | 3 | 130 | TURBINE BLADE DAMAGE | 30-Jul-17 | |
| 12 | Bokaro - B | 3 | 210 | COAL SHORTAGE | 30-Jan-18 | |
| 13 | RAGHUNATHPUR | 2 | 600 | COAL SHORTAGE | 27-Dec-17 | |
| 14 | Sagardighi | 2 | 300 | COAL SHORTAGE | 1-Feb-18 | |

(i) Thermal Generating units:

| 15 TENUGHAT 2 210 COAL SHORTAGE |
|---------------------------------|
|---------------------------------|

(ii) Hydro Generating units:

| Sr. No | Generating Station | UNIT NO | CAP(MW) | REASONS FOR OUTAGE | OUTAGE DATE |
|--------|-----------------------|------------|---------|---|----------------|
| 1 | BURLA | 5 | 37.5 | R & M WORK | 25.10.2016 |
| 2 | BURLA | 6 | 37.5 | R & M WORK | 16.10.2015 |
| 3 | CHIPLIMA | 3 | 24 | R & M WORK | 15.10.2015 |
| 4 | BALIMELA | 1 | 60 | R & M WORK | 05.08.2016 |
| 5 | BALIMELA | 2 | 60 | R & M WORK | 20.11.2017 |
| 6 | BALIMELA | 7 | 75 | Governor & Guide vane problem | 12.10.2017 |
| 7 | U.KOLAB | 2 | 80 | Repair of MIV & Draft tube gate leakage | 28.05.2017 |
| 8 | RENGALI | 5 | 50 | Hoist gate problem | 21.03.17 |

(iii) Transmission elements

| Transmission Element / ICT | Agency | Outage Date | Reasons for Outage |
|-----------------------------|----------------------|----------------|---|
| 220 KV BALIMELA - U' SILERU | OPTCL / APSEB | 27.04.15 | LINE IDLE CHARGED FROM UPPER SILERU END AT 12:42 HRS OF 25.01.17 |
| 400KV TALA -BINAGURI –I | POWERGRID/BHU TAN | 29.12.17 | S/D AVAILED BY BHUTAN |

(Reported as per Clause 5.2(e) of IEGC)

Members may update.

Deliberation in the meeting

Members noted.

Item no. D.4: Status of commissioning of generating station and transmission elements

New generating units:

| S.No. | Power Plant | Plant Size | Expected date |
|-------|-------------|------------|---------------|
| | | | |

New transmission elements:

| SI No. | Name of Element | Expected date |
|--------|---|---------------|
| 1 | 400kV Rajarhat-Purnea D/C (with LILO of one circuit each at | |
| | Farakka and Gokarno) | |
| 2 | Augmentation of 400kV Farakka-Malda D/C with HTLS conductor | |
| 3 | 400kV Ind-Bharath-Jharsuguda D/C | |
| 4 | 400kV Talcher-Bramhapur-Gazuwaka D/C | |
| 5 | 400kv Talcher-Rourkella(2 nd D/C-Quad) | |
| 6 | 765kv Anugul-Srikakulum D/C | |
| 7 | 400kV Sasaram-Daltonganj D/C &Daltonganj S/Stn | |
| 8 | 400 kV Ranchi-Raghunathpur D/C | |
| 9 | 220 kV TLDP-IV – NJP ckt-2 | |
| 10 | 220kV Gola- Ranchi | |

Members may update.

Deliberation in the meeting

Members noted.

PART E:: ITEMS FOR INFORMATION

Item No. E.1: Restricted Governor /Free Governor Mode Operation of generators in ER

CERC vide their letter dated 05-06-2017 desired to know the present status of RGMO/FGMO response of all eligible thermal and hydro units. Accordingly ERLDC vide letter no.ERLDC/SS/FGMO/2017 dated 07-06-17 requested all concerned power stations and SLDCs to provide updated status of FGMO/ RGMO of units under their control.

The latest status of the RGMO/FGMO of ER generators is enclosed in Annexure-E1.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.2: 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 113th OCC, Member Secretary informed that during interaction with consultants of Grid Study Committee, NLDC agreed that they will plan for conducting workshops on crisis management plan for Cyber Security and few workshops will also be held in Eastern Region.

CESC vide letter dated 22.08.15 had furnished their status of the preparation of Crisis Management Plan (CMP) for Cyber attacks in their system.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.3: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.

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

As per the information received from the constituents the following generators certified with IS 18001:

- All NTPC stations in Eastern Region
- Teesta, NHPC
- All OHPC generating units
- All CESC generating units
- All units of WBPDCL
- DGPC units

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.4: Status of Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipment.

The status of DR/EL and GPS as updated in previous OCCs is enclosed at Annexure-E.4.

Constituents are also requested to furnish their list of new DR/EL which are not included in the list.

Teesta Urja Limited vide letter dated 8th September 2017 informed that Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipments are available at Teesta III HEP.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.5: Status of Emergency Restoration System (ERS Towers) for Eastern Region constituents

CEA vide letter dated 21.07.2017 requested to send the status of state-wise availability of ERS towers and requirement of ERS towers.

In 136th OCC, MS, ERPC informed that CEA vide letter dated 21.07.2017 has sought the latest status on ERS. Therefore, OCC advised all constituents to send the updated status to ERPC secretariat vide mail (mserpc-power@nic.in).

Latest status is enclosed at Annexure- E.5.

In 138th OCC, WBSETCL informed that they are having total 10 ERS towers, 5 at Arambagh and 5 at Gokharno.

In 139th OCC, JUSNL informed that they are having eight 220/132kV ERS towers at following locations:

- Hatia 3 nos
- Ranchi 2 nos
- Dumka 3 nos

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.6: Status of 1st Third Party Protection Audit:

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

| Name of Constituents | Total Observations | Complied | % of Compliance |
|----------------------|-----------------------|----------|--------------------|
| Powergrid | 54 | 46 | 85.19 |
| NTPC | 16 | 14 | 87.50 |

| NHPC | 1 | 1 | 100.00 |
|-----------------------------|----|----|--------|
| DVC | 40 | 26 | 65.00 |
| WB | 68 | 27 | 39.71 |
| Odisha | 59 | 42 | 71.19 |
| JUSNL | 34 | 25 | 73.53 |
| BSPTCL | 16 | 5 | 31.25 |
| IPP (GMR, Sterlite and MPL) | 5 | 5 | 100.00 |

* Pending observations of Powergrid are related to PLCC problems at other end.

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

In 118th OCC, all the constituents were advised to comply the pending observations at the earliest. All the STUs informed that most of the observations are related to funding from PSDF. DPRs have been submitted to PSDF committee.

Members may comply.

Deliberation in the meeting

Members noted for compliance.

Item No. E.7: Black-start and restoration procedure of Eastern Region

The black-start and restoration plan for E. Region has been updated in compliance to Section 5.8(a) of the IEGC.

All SLDCs, ISGSs and regional IPPs may kindly provide their valuable feedback on the suggested changes preferably by 25-01-18, as the updated document is to be published in the current month.

The draft black start and restoration procedure of Eastern Region was circulated to all regional entities of the region through mail on 19-01-18 for their observations / comments. Based on feedback received from some of the constituents, the procedure has been updated and emailed to concerned utilities vide letter no. ERLDC/RP/2018/SS/ 5846 dated 30-01-17.

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.8: Final list of links executed/to be executed under Fiber Optic Communication System in lieu of existing Unified Load Despatch & Communication (ULDC) Microwave links in Eastern Region

PGCIL vide mail dated 15th February 2018 informed that the following is the list of links which has been executed/to be executed under the project:

| SI no | Link Name | Link Length (Km) |
|-------|------------------------------|------------------|
| Α | Central Sector | |
| 1 | MTPS (Kati)- Muzaffarpur 400 | 23.909 |
| 2 | Durgapur (CS) - Bidhannagar | 12.004 |
| 3 | Maithon-Ranchi | 199 |
| 4 | Hatia-Ranchi 400 (CS) | 21.003 |
| 5 | Sasaram (CS) - Gaya 765 (CS) | 149.003 |

| | 6 | Muzzaffarpur - Biharshariff (CS) | 129.638 |
|----------|--------|---|---------|
| | 7 | ERLDC-Kasba (UGFO) | 10.7 |
| В | | BSPTCL Sector | |
| | 1 | Samastipur-Baroli | 64 |
| - | 2 | Samastipur-Hajipur | 61 |
| | 3 | Samastipur-Kati | 76 |
| - | 4 | BTPS-Biharshariff | 64 |
| | 5 | Biharshariff-Bodhagava | 80 |
| | 6 | Biharshariff-Fatua | 46 |
| | 7 | Fatua-Jhakhanpur | 26 |
| | Q | lakkannur-SLDC Patna (LIGEO) | |
| C | 0 | OPTCL Sector: | 0 |
| C | 1 | Chainnal Maramandali | 7 |
| | 1 2 | Talahar (TSTPS) Maramandali | 1 |
| | 2 | Duburi Meramandali | 43 |
| | 3 | Dubun-Meramandali Meremendeli Mendhasel | 96 |
| | 4 | Terlera Dudhingdhar | 100.593 |
| | 5 | Tarkera- Budnipadnar | 109 |
| | 6 | Rourkela-Tarkera | 15 |
| <u> </u> | 7 | Mancheswar-Bhubaneswar SLDC | 4 |
| | 8 | Bhubaneshwar SLDC-Vidyut Bhawan (Last Mile) | 1.5 |
| D | | WBSETCL Sector: | |
| | 1 | Bidhannagar- Barjora | 25.624 |
| | 2 | Barjora- Bishnupur | 42.803 |
| | 3 | Bishnupur- Arambag | 50.789 |
| | 4 | Kolaghat TPS- Howrah SLDC | 69.207 |
| | 5 | NJP-NBU | 14 |
| | 6 | NBU-Binaguri | 1 |
| | 7 | Rishra-Bighati | 9 |
| | 8 | Bighati-BTPS | 23 |
| | 9 | BTPS-Dharampur | 18 |
| | 10 | Dharampur-Jeerat | 8 |
| | 11 | Arambag- Kolaghat | 78.26 |
| | 12 | 132 kV Lilua-Rishra | 17.03 |
| | 13 | 132 kV Howrah- Lilua (WBSETCL) | 12.459 |
| | 14 | 132 Kv Kasba - Salt Lake (WBSETCL) | 22.585 |
| | 15 | LILO at Liluah-Rishra | 2.34 |
| | 16 | Saltlake S/s to Abbikshan Bhawan (LIGEO) | 0 514 |
| | 17 | | 1.02 |
| | 17 | | 1.03 |
| | 18 | Bidhannagar400-Bidhannagar220 | 0.91 |
| E | | DVC Sector: | |
| | 1 | 132 kV Maithon SLDC - MHPS | 1 |
| | 2 | MHPS- 132 kV Kalyaneswari | 2 |
| | 3 | 220 kV Kalyaneswari - Mejia A | 55 |
| | 4 | 220 kV Mejia - Waria | 34 |
| | 5 | 220 kV Waria DTPS - Parulia | 21 |
| | 6 | 220 kV Parulia - Durgapur | 1 |
| <u> </u> | 7 | 132 kV Kalyaneswari - CTPS A | 87 |
| | 8 | CTPS A - BTPS | 32 |
| <u> </u> | 9 | 220 kV Ramchandrapur - Chandil | 33 |
| <u> </u> | 10 | Mejia A - Mejia B (UGFOC) | 4.7 |
| | 11 | 400 kV Barhi-KTPS | 20.723 |
| | 12 | 220 Kv Koderma-KTPS | 17.559 |
| | 13 | Bokaro-Ramgarh | 54.887 |
| | 14 | Konar-Bokaro | 23.733 |

| 15 | Konar-Barhi | 58.455 |
|----|--------------------------------------|--------|
| 16 | Maithon-Kalyaneshwary | 6.854 |
| 17 | MHPS-Panchet | 14.599 |
| 18 | CTPS 132 kV C/R to CTPS-A 220 kV C/R | 0.8 |
| 19 | Kalyneshwari-Kalipahari | 27.91 |
| 20 | LILO at Raghunathpur | 21.83 |
| 21 | Kodarma TPS-Kodarma 400/220 S/s | 0.787 |
| 22 | BTPS A-BTPS B | 1.265 |
| 23 | Ramgarh220-Ramgarh 132 | 0.735 |
| 24 | DSTPS-RTPS | 69.182 |

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.9: Final list of links executed/to be executed under Fiber Optic Communication System in ER under Expansion of Wideband Communication Network in ER

PGCIL vide mail dated 15th February 2018 informed that the following is the list of links which has been executed/to be executed under the project:

| S/n | Link Name | Link (Km) | Length |
|-----|---|--------------|--------|
| 1 | Dhalkola-Purnea | 40.94 | |
| 2 | Birpara-Siliguri | 80.44 | |
| 3 | LILO of Malda-Binaguri at Purnea | 58.22 | |
| 4 | Baripada-Jamshedpur | 140.91 | |
| 5 | Subhashgram -Jeerat | 63.99 | |
| 6 | Bolangir - Jeypore | 308.32 | |
| 7 | Bolangir - Angul | 200.63 | |
| 8 | Rengali - Keonjhar | 100.25 | |
| 9 | Ara -Patna | 64.00 | |
| 10 | Ranchi 400 - Ranchi 765 | 78.00 | |
| 11 | Banka-Kahalgaon | 48.95 | |
| 12 | Rangit - Gangtok (upto T-85) | 22.00 | |
| 13 | 400 KV Purnea S/s to LILO of Malda- Binaguri TL Section (Binaguri Section) | 60.50 | |
| 14 | Patna-Barh | 92.53 | |
| 15 | Teesta V - TP Rangpo/Binaguri | 110.38 | |
| 16 | LILO at Sundargarh (Rourkela-Raigarh) | 22.89 | |
| 17 | Angul- Jharsuguda | 286.40 | |
| 18 | Uttara-Mendhasal (Pandiabili) | 27.797 | |
| 19 | 132 KV Rangpo S/s to LILO Siliguri-Gangtok (CS) | 3.737 | |
| 20 | New Melli-Rangpo | 25.40 | |
| 21 | MPL-Maithon PG | 31.50 | |
| 22 | Indravati HPS - Indravati PG | 3.79 | |
| 23 | Maithon - Kahalgaon | 171.83 | |
| 24 | Biharsharif-Koderma | 109.00 | |

| 25 | Siliguri 400 - Kishagunj (Incl LILO) | 98.65 | | |
|-----|--|--------------|--------|--|
| 26 | Baripada- Keonjhar | 157.54 | | |
| 27 | Dalkhola - Malda | 116.15 | | |
| 28 | Birpara - Alipurduar | 59.184 | | |
| 29 | Barh-Kahalgaon | 215.22 | | |
| 30 | Chandawa-Ranchi | 68.31 | | |
| 31 | LILO of Biharsharif-Kahalgaon at Lakhisarai | 31.63 | | |
| 32 | Daltonganj-Sasaram | 196.13 | | |
| 33 | Dalkhola-Siliguri LILO at Kishanganj (Dalkhola- Kishanganj) | 31.09 | | |
| 34 | Gaya-Chandwa | 117.13 | | |
| 35 | Jamshedpur-Chaibasa | 47.86 | | |
| 36 | Biharsharif-Banka | 178.89 | | |
| 37 | Purnea400-Purnea220 | 1.99 | | |
| 38 | Punatsangchu- Alipurduar | 63.78 | | |
| S/n | Link Name | Link (Km) | Length | |
| 39 | Rourkela-Raigarh(Rourkela to LILO at Sundargarh) | 123 | | |
| 40 | Ranchi-Rourkela | 144.97 | | |
| 41 | Siliguri-Gangtok | 126.064 | | |
| 42 | Bongaingaon-Gelephu | 55.00 | | |

Members may note.

Deliberation in the meeting

Members noted.

Item No. E.10: Additional agenda

1. Curtailment of charging time on tripping of 132 KV new Kataiya- Kushaha Transmission Line from GSS Kataiya raised by Nepal Electricity Authority--BSPTCL

Nepal Electricity Authority (NEA) has requested to arrange the shortest time period for charging of 132 KV new Kataiya- Kushaha Transmission Line from GSS Kataiya. The charging of the said lines are getting delayed about 1:30 - 2 hrs from January itself. Previously on tripping of line, the line used to be charged based on telephonic conversation within 10 min. To minimize the charging time on tripping of 132 KV new Kataiya- Kushaha Transmission Line from GSS Kataiya the method of 1st instance charging of tripped line with consent limited to BSPTCL Kataiya & Duhabi/Kushaha/Nepal only may be allowed.

Members may discuss.

Deliberation in the meeting

BSPTCL informed that they were to take consent from ERLDC then NLDC before charging the line. Hence the charging of the line was getting delayed.

ERLRC informed that they take up the issue with NLDC.

2. Flexible Operation of thermal power stations- Identification of pilot projects--CEA

Central Electricity Authority vide letter dated 16th February 2018 informed that a special Task Force was constituted under IGEF Sub-Group-I for enhancing the flexible operation of existing coal-fired power plants. The committee has recommended for implementation of measures for 50%, 40% and 25% minimum load in thermal power stations. The measures for 50% minimum load operation requires no investment or minimal investment. (Report is available on CEA website under TRM division)

Subsequently, a meeting was held under the chairmanship of Member (Thermal) on 8th February 2018 where in it was decided that 55% minimum load operation would be implemented nationwide in first phase. Furher, Six units, including two units of NTPC and one unit each from DVC, GSECL, APGENCO, MSPGCL, would be taken up for 55% minimum load operation on pilot basis as 55% minimum load operation in line with the CERC notification dated 6th April 2016 and 5th May 2017 (IEGC 4th Amendment).

NTPC and DVC may decide.

Deliberation in the meeting

NTPC informed all the units of NTPC were capable of 55% minimum load operation.

DVC informed that they were planning to implement at DSTPS.

3. Nomination of members for Crisis & Disaster Management Plan for Power Sector

The old list of nominated members for Crisis & Disaster Management Plan for Power Sector of Eastern Region is attached as **Annexure-E10.3**. Most of the members in the list have been superannuated or transferred to other places.

SLDCs are requested to nominate/update the contact details of members for Crisis & Disaster Management.

Deliberation in the meeting

OCC advised all SLDCs to nominate/update the contact details of members for Crisis & Disaster Management.

4. Nominations of officers for Workshop/ Boot Camp on Coal Flexing to Support Variable Renewable Energy Integration and Grid Balancing

A work shop on Coal Flexing to Support Variable Renewable Energy Integration and Grid Balancing, under the aegis of FOLD, is scheduled to be held from March 06-07, 2018 at NRLDC, New Delhi.

SLDCs, ISGS/IPP thermal generating stations are requested to nominate one officer to attend above mentioned workshop at NRLDC, New Delhi. Apart from this, SLDCS and Generating Stations are also requested join the workshop through VC for wider participation.

Deliberation in the meeting

OCC advised all SLDCs and Generating stations to nominate one officer to attend the workshop.

ED, ERLDC informed that FOLD Meeting is scheduled to be held on 26th February 2018, he requested all the SLDCs to attend the Meeting. He added that FOLD meeting would be held on every month where in one SLDC would give a presentation to share their experience on recent developments.

ED, ERLDC requested SLDC, Odisha to prepare a presentation for forthcoming FOLD Meeting.

5. Implementation of 4th Phase AMR in Eastern Region-Powergrid

Powergrid informed that already 249 Meters are integrated under 3rd Phase of AMR system across Eastern Region as per LOA placed upon M/S. TCS. Now certain new locations and few new feeders at existing locations, also came within this period which need to be integrated now. Accordingly ERLDC has provided the list of SEM's against location wise (Attached as **Annexure-E10.5A)**. In total approx. 150 SEM's need to be integrated under 4th phase of integration. Going by the previous LOA and standard escalation of component price on Year to Year basis a tentative cost estimate prepared which is attached as **Annexure-E10.5B** for reference. Total cost estimate comes to **Rs. 93,56,948/- (Rs. Ninety three lacs fifty six thousand nine hundred forty eight only).**

Considering the implementation of 4th phase AMR, it is proposed to finalize the contract with M/S. TCS on Single Tender basis, however, exact value will be intimated afterwards when negotiation will be completed with TCS.

In addition to above already discussion is going on with M/S. TCS regarding quantity variation of the existing contract for execution of atleast few meters immediately with same rate of existing LOA. On finalization of the issue exact quantities of SEM & cost implication for quantity variation will be intimated.

Members may discuss.

Deliberation in the meeting

OCC approved the procurement and decided to apportion the cost among the beneficiaries in the ratio of central sector allocation.

OCC has referred to TCC for further concurrence.

6. Antitheft charging of 400 KV Alipurduar-Phunatsangchu-D/C up to Indian Border (64.2 KM from Alipurduar SS)-Powergrid

Under strengthening scheme for development of pooling station at Northern part of West Bengal for power evacuation from Bhutan to NR/WR, 400 KV Alipurduar-Phunatsanchu-D/C line is envisaged. Now POWERGRID has already constructed the line from Alipurduar S/S to India Border (Total: 64.2 KM, Quad Moose, Double Circuit Line). However, Bhutan portion is yet to complete and in totality the power flow is expected in May'2018.

As POWERGRID portion is already completed and during construction itself the amount of problem faced in terms of ROW and based upon previous history, the border area is very much theft prone. Considering the delay in commissioning of Hydro projects at Bhutan side it is proposed to accommodate antitheft permission for the completed portion till complete commissioning of the line to avoid unnecessary loss/damage of assets.

The line will be kept antitheft charged from Alipurduar HVDC S/S as per CTU instruction considering present Grid conditions. Also, DOCO of the lines will be done as per prevailing regulations of CERC.

Deliberation in the meeting

Members noted.

7. Shut down of 400 KV Rangpo-Teesta-III & 220 KV Rangpo-New Melli-I line for rectification of GIB by Hyosung--Powergrid

400/220/132 KV Rangpo S/S is a GIS S/S constitute of separate voltage levels in different GIS Building. Every voltage level consists of inside GIB & outside GIB. Complete GIS system is supplied by M/S. Hyosung, South Korea.

In recent past it is observed that, SF6 gas leakages developed in outside GIB of different feeders. Time and again the Gas is being replenished on SOS basis to avoid, unwanted tripping of connected feeders. However recent trend shows rise in SF6 gas leakage, specifically for 02 feeders, namely, 400 KV Teesta-III and 220 KV New Melli-I.

As attending leakage in GIB, required special skill, M/S. Hyosung has been called upon for identification and providing necessary solutions for the same. After thorough investigation, M/S. Hyosung provided detailed rectification procedure involving replacement of GIB section also. However to carry out the rectification a standard procedure to be followed involving, Draining of SF6 gas for particular section and following drying up procedure & replacement.

In total to complete the activity for both the feeders as per Hyosung, followings are the requirement of S/D:-

- 1. 400 KV Rangpo-Teesta-III: For 05 Days on Continuous basis.
- 2. 220 KV New Melli-I: For 03 Days on Continuous basis.

As total team will come from Korea itself, we need to provide them exact S/D dates for arranging documentation formalities. In view of above, it is requested to provide S/D approval for the above element as follows:

| SI | Name of Element | From | То | Nature |
|-----|---------------------------|---------------|--------------|--------|
| No | | | | |
| 01. | 400 KV RANGPO-TEESTA-III | 10:00 Hrs. of | 16:00 Hrs of | OCB |
| | | 31.03.18 | 05.04.18 | |
| 02. | 220 KV Rangpo-New Melli-I | 10:00 Hrs. of | 16:00 Hrs of | OCB |
| | | 06.04.18 | 08.04.18 | |

Outage of the above elements may kindly be treated as per provisions of regulations.

Deliberation in the meeting

OCC approved the shutdown as mentioned in Annexure-D2.

8. Continuous S/D of 400kV D/C New Siliguri-New Purnea TL LILO At Kishanganj For Carrying out Diversion of Anchor Tower-2 Location which got damaged during last year flood-Powergrid

400kV Binaguri-New Purnea TL LILO at Kishanganj Loc No. Anchor-2 has got vulnerbale due to change in course River Mahananda.Two tower legs already encroached by river last year and the earth below the foundation have been eroded.

As a permanent measure Powergrid is shifting the Anchor-2 Tower on Pile Foundation and presently Pile Foundation work is in progress.

However, after completion of pile, during tower erection & stringing work Powergrid require continuous S/D of 400kV D/C Binaguri-Purnea LILO @ Kishanganj wef 1st week of April to End of May-18.

In order to save the long outage of both the lines we are proposing for bypassing the existing LILO at Kishanganj and by jumpering we shall through 1 ckt to Purnea SS.

Deliberation in the meeting

OCC in principle agreed to the proposal.

BSPTCL informed that they would make a study on their state network to cater their loads.

9. Continuous S/D of 220kV D/C Siliguri-Dalkhola LILO At Kishanganj For Carrying out Diversion of Anchor Tower-1,2 & Loc No.-35 Location which got damaged during last year flood.

3 Nos. Locations of 220kV Siliguri-Dalkhola TL LILO @ Kishanganj Loc No.- Anchor-1, Anchor-2 & Loc No.-35 have got vulnerbale due to change in course River Mahananda. Anchor-1 & Anchor-2 has already been encroached by Mahananda River and Loc No.-35 is presently at a distance of 8 metres from the river.

However, considering the last year trend and present site condition, it has been decided to shift all the affected 3 towers on Pile Foundation.

However, during construction of Pile and during tower erection & stringing work we require continuous S/D of 220kV Siliguri-Dalkhola LILO @ Kishanganj wef End of April-18 to June-18.

In order to save the long outage of both the lines we are proposing for bypassing the existing LILO at Kishanganj and by jumpering we shall through 1 ckt to Dalkhola SS.

Deliberation in the meeting

OCC in principle agreed to the proposal.

BSPTCL informed that they would make a study on their state network to cater their loads.

Meeting ended with vote of thanks to the chair.

Annexuse - A

Participants in 142nd OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 10:30 hrs

Date: 23.02.2018 (Friday)

| Sl No | Name | Designation/ Organization | Contact Number | Email | Signature |
|----------|-------------------|---------------------------------|-------------------|--|-----------|
| 1 | J. Bandyopadhyay | Member Secretary ERPC | 9432326351 | mserpc-power@gov.in | R |
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| 3 | G. MITRA | DGMIERLOI | 9831297392 | gopulmitre@ posocc. i- | RIGER |
| 4 | SURAJIT BANERJE | E DGM, ERLDC | 9433041823 | surgit barrespec @ posses in | Xen C |
| 5 | S.K.HAZRA | DCom, Powerly MI | 9433041809 | AKhazze @pwormilizion | hos |
| 6 | B. Pan | CE-I/SCODOVC | 9703247102 | bpcm. dvc @ gmail. | Brm |
| 7 | H.S. Jahn | Gmius) ER-1. Patna | 9493193251 | hroahu entferain | |
| 8 | B.K.Singh | Manager(E) NHPC | 9800003735 | binodkumarsingh@gma | 1. 10m BR |
| 9 | Niray Kumar Singh | Manager (M), RPS NHPCUA. | 9800213924 | rangitcr@gmail.com | ag . |
| 10 | RAHUL RANJAM | MANIAGER (ER) NHPC, FARIDADA | 9810287728 | Canulnhpe 77 @ gmail.com | Algoniuf |
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| 14 | O.P.Sridhara | JITPL | 9583040605 | electrical_Orissa@ Jinalal group.com | of |
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| 16 | Jogenha Kum | TUL | 9910413381 | YKumar 1110 genal. | 251. |
| 17 | Chandan Mallick | Engr./ERLOC | 9007059660 | Chanden mallice @ PUSOCO . in | the there |
| 18 | J.R. Mohapatra | mgr. /F.Reoc | 4433041873 | tromo hapatra@ poso cein. | Tuel |
| 19 | Sawav K Sahay | Dy Manag /ERIDC | 9432013173 | Sawav . Salay @ Asoco.in | fatay |
| 20 | Biswajva | Sr fragr. ERLDE | 9903329221 | biswajtt.mordal@ Posocarn | przeri |

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

[Page 1]

Participants in 142nd OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 10:30 hrs

Date: 23.02.2018 (Friday)

| Sl No | Name | Designation/ Organization | Contact Number | Email | Signature |
|----------|---------------------|------------------------------|-------------------|---|--------------|
| 21 | RAS PROTIM | Sr Engr, ERLOC | 9903329571 | raypratine posoco. | Res |
| 22 | B.B. grot | Og ugr Elise | 9452351830 | bithe posoc | St. |
| 23 | Deli Warens | Head office, Depe Bhutan | 995-17634920 | detiluctorystar 10 @gmail.a | ~ wij |
| 24 | Pera Warayno | Bhuten. | 975-17468852 | bener bood wil | Eta |
| 25 | Santann Ruchopul | Sn. Engn, ULDE POWERGRID | 9434735848 | Santanu. rudrapal @ Powergridindia.com | ATAS |
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| 27 | P.G.HONT | Do.mr. | 9434748267 | boutermidindia com | Poz |
| 28 | A.K. Davis | AGM (EEMG/RM) | 9431215304 | dattack a Npr. 6. 14 | anas |
| 29 | S.K. Sharna | AGM, ERSHAR | 9471008359 | sksharma 56@ make.com | Sug |
| 30 | R.K. Mandal | AGM, NTRC Rohalgaon | 9431600132 | rismanded anope | F2 , |
| 31 | S.A. Awari | Py. Myr. paine | 9431820252 | Shabbirahamadansan' P povenymidinalia. way | dr, |
| 32 | S. K. SAMU | chief managen popul, BBSR | 9078888643 | SKSahu @ Powergorid india | 2 Plans |
| 33 | NADEN ATTAD | Haveger | 9432351831 | natime posoco in | TAN |
| 34 | s.p. Barnwal | ANH G M ERLDC | 9433041812 | Spbarnwal@po30co.in | apier |
| 35 | S konar | CM, ERLDe | 9436335370 | Konare-S@ posses in | Jonar |
| 36 | A. N. fal. | CH, EFL) C | 9834339589 | anpal@ fosoco. in | अम्मेमा दन्द |
| 37 | Brawin Kunner Pappu | A·EX·E/PSPTCL | 9386870245 | Kuman pain 00 40 geadle | they - |
| 38 | Guriya kuman | A. ExiE) BS PTCL | 7763817980 | ergudiyag 1 egmail | Gunga |
| 39 | Tushar Ranjan | ACE / SLOCI Ranchi | 932 6374326 | Navijtushar egmail. Lon. | tanja |
| 40 | Lenin. 15 | AGE/ ERPC | 8335905973 | lemin nite grue | Columb 0 |

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Time: 10:30 hrs

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| Sl No | Name | Designation/ Organization | Contact Number | Email | Signature |
|----------|------------------------|------------------------------|-------------------|---------------------------|-----------|
| 41 | c K Haldar | ACE, SLOC WBSETCL | 94349 10379 | ckhaldar yahoo. co. m | ER . |
| 42 |). Muttachory | Act, WBSLOC | 9434910265 | did-brette Cyclos. | J. But. |
| 43 | Sumit Dasgupt | ST. MATCPS) KTPS NBPDCL | 8336903911 | 5. dargenter Ewbpdcl.co. | 80 gmt |
| 44 | BASODED MAHATO | A.Gx. B JUSNL | 8051084040 | basul Smay Equilion | Rowich . |
| 45 | J.G. Roo | EE, EPPC | 9547891353 | eseb-cea@yako. | ligrada |
| 46 | s. P. Datta | AGM(NVVN) ERPC. | 94330 67022 | spokalta e redittad. | spa. |
| 47 | Premiect Kuma | ESE/SLDC BSPTCL | 7763817717 | previeet 75 @gmm l. com | freger |
| 48 | C.M. SHARMA | CE (SLDe/ULDO) JUSNL | 9431175416 | Coonsharoona SI @ griad | E- |
| 49 | R.K. Pandey | EEE SUD C | 9934138298 | kirajeship e gmail. 100 | Ruefandy |
| 50 | P. K. Kundu | SLDC, WASETCL | 9921910030 | ce. wholde @ gmail com | As. |
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| 53 | Asunava Sen Gupta | DAM/CESC | 9831802682 | Grip-sg.in | a |
| 54 | R. Riswas | SM/202 | 943473598 | b-raminal e yahr | 211- |
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| 56 | UMAKANTA SAHOU | DGM(EI),GRIDO | 9437185507 | usahov.purie gmail.com | Ush |
| 57 | H.P. Mahapatra | DGM, OHPC, Bhubanuhmon | 7328840015 | hpon. Ohpe @grouil. com | the |
| 58 | J: tendroa Prr. Mallik | Manager, GMR | 9777 456737 | jitendra. Malik@gmr grow | Wate |
| 59 | ANIKETGHOSH | Engineer /ENICL | 8959592553 | millet. gho she com | A. Chapt |
| 60 | P. N. Sarkas | - EE | 983102723 | | Bo |

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Highlights for the month of January-18

Peak Demand

Frequency Profile Average Freq:- 49.98 Hz Avg FVI: - 0.045 Lowest FVI:- 0.027

Max- 50.29Hz on 31st January' 18 Min- 49.62 Hz on 31st January' 18

78.01% of the time freq was with in IEGC Band

ER: 18961 MW on 13th January 2018 at 19:04 hrs % Growth in Average Demand Met w.r.t. last year:- 5.89%

BSPHCL : 4347 MW ; ON 18/01/18 JUVNL: 1187 MW; ON 15/01/18 DVC: 3118 MW; ON 23/01/18 GRIDCO: 4253 MW; ON 20/01/18 WB: 6597 MW; ON 31/01/18 SIKKIM: 107 MW; ON 10/01/18 Minimum Demand Met: 10800 MW on 03rd January 2018 at 03:28 hrs

Energy met Max. 379 MU on 29th Jan 2018 %Growth w.r.t. last year on Max energy 8.40% Avg. 365 MU in January 2018 %Growth w.r.t. last year on Avg. energy :- 8.26% New Element Generating Units-NIL

Open Access STOA transactions approved -220 nos.

Energy Approved-430.33 MUs

Achievements during the month January - 2018:

| SL NO | Element Name | Owner | Charging Date | Chargin g Time | Remarks |
|----------|--|-------|------------------|-------------------|--|
| 1 | 400kV Jharsuguda-Rourkela- IV | PG | 02-01-2018 | 17:06 | LILO of 400kV Rourkela Raigarh IV at Jharsuguda, First time charged |
| 2 | 125MVAR Bus reactor at Rourkela | PG | 05-01-2018 | 00:16 | Replacement of old 50MVAR Bus Reactor, First time charged |
| 3 | 400kV Jharsuguda-Rourkela- III | PG | 05-01-2018 | 22:19 | LILO of 400kV Rourkela Raigarh II at Jharsuguda, First time charged |
| 4 | 400kV Jharsuguda-Raigarh-III | PG | 05-01-2018 | 22:25 | LILO of 400kV Rourkela Raigarh II at Jharsuguda, First time charged |
| 5 | 400kV Sasaram-Daltonganj-II | PG | 31-01-2018 | 23:32 | First time charged on no load basis |
| 6 | 63MVAr line Reactor of 400kV Sasaram-Daltonganj-II at Daltongani | PG | 31-01-2018 | 23:32 | First time charged |





| So Far Highest Demand | | | | | | | | |
|-----------------------------------|-------|-----------------------------|-----------|-----------|-------|---|--|--|
| Constitute | Dema | nd (in MW) | Date | | Time | Dmd met on 13 th Jan'18(<mark>max dmd met</mark> day) | | |
| Bihar | | 4488 | 09-Oct-17 | | 20:38 | 3775 | | |
| DVC | | 3333 | 10-Apr-10 | 6 | 20:57 | 2931 | | |
| Jharkhand | | 1262 | 10-Jun-17 | 7 | 19:54 | 1019 | | |
| Odisha | | 4656 | 10-Oct-17 | 7 | 19:37 | 4202 | | |
| W. Bengal | | 8605 | 12-Apr-1 | 7 | 19:56 | 6377 | | |
| Sikkim | | 117 | 28-Oct-16 | 6 | 18:59 | 102 | | |
| ER | | 21116 | 18-Oct-17 | | 19:43 | 18961 | | |
| So Far Highest Energy Consumption | | | | | | | | |
| Const | itute | Energy consumption (in MUs) | | | Date | Dmd met on 13 th Jan'18(max dmd met day) | | |
| Bih | ar | 90.3 | | 26-Sep-17 | | 68.9 | | |
| DV | VC | 75 | | 23-Mar-17 | | 62.2 | | |
| Jhark | hand | 26 | | 20-Apr-16 | | 21.2 | | |
| Odisha | | 91.5 | | 16-Sep-17 | | 80.7 | | |
| West Bengal | | 181 | | 27-Apr-16 | | 113 | | |
| Sikk | im | 2 | | 24-Mar-17 | | 1.8 | | |
| EF | 2 | 451 | | 26-Sep-17 | | 361 | | |















Performance of constituents/Utilities on maximum demand day in January, 2018 (13-01-2018)





CONSTITUENTWISE SCHEDULE & ACTUAL EXCHANGE



DATE: 13 Jan 2018 Saturday







ISGS (THERMAL) DC, SCHEDULE & ACTUAL GENERATION DC Actual 13 Jan 2018 Saturday DATE : Schedule **TSTPPST2 TSTPPST1** 2,500 960 950 950 750 2,000 940 930 550 1,500 920 910 350 900 1,000 150 890 880 500 -50 870 -250 860 22:00 22:45 23:30 20:30 21:15 0:15 1:00 1:45 30 15 45 2 00 45 30 15 9:00 45 8 45 2 8 00 30 18:15 19:00 19:45 20:30 21:15 22:00 22:45 23:30 15 00 45 30 :0 5 6 ~ Act MU MAX MIN Min/Max UI schd MU Act MU MAX MIN Min/Max UI schd MU 893 -0.35 45.53 22.1 948 0.94 22.43 45.5 1953 1847 0.95 0.00 12:00 7:00 11:30 5:45 Time: Time: BARH TALA, CHUKHA 1,400 200 900 180 1,200 700 160 1,000 140 500 800 120 300 100 600 80 100 400 60 -100 200 40 20 -300 0 1:00 1:45 2:30 3:15 4:05 5:30 6:15 7:45 8:30 8:30 9:15 9:15 10:45 11:30 12:15 13:00 13:45 15:15 15:15 16:600 0:15 0 0:15 1:00 1:00 2:2:30 3:15 2:2:30 3:15 4:45 6:15 7:05 7:7:45 8:30 9:15 8:30 9:15 11:30 0:0:45 11:33 13:35 13:35 13:35 13:35 15:15 15 16:45 17:30 18:15 00:61 19:45 20:30 21:15 22:00 22:45 23:30 Act MU SCHD MU ACT MU SCHD MU ACT MU Max MIN Min/Max UI schd MU Chukha Hydro Tala Hydro 1258 1038 -0.03 29.1 0.83 29.16 1.62 0.72 1.46 0.02

Time: 12:45 17:30





TALA, CHUKHA SCHD VS ACTUAL



Over Drawl / Under Injection by ER Entities Non-compliance of direction issued by SLDC

| Ja | anuary 20 | 18 Sch | edule Vs | Actual Dra | WI |
|--------------|------------------|----------------|-------------------|------------------------|--------------------------------|
| | Schedule (Mu) | Actual (Mu) | Deviation (Mu) | Daily Avg. Dev (Mu) | % Deviation (Daily Average) |
| Bihar | 2089 | 2091 | 3 | 0.1 | 0.1 |
| Jharkhand | 439 | 462 | 24 | 0.8 | 5.4 |
| DVC | -1076 | -1104 | -28 | -0.9 | 2.6 |
| Odisha | 758 | 851 | 93 | 3.0 | 12.2 |
| West Bengal | 471 | 520 | 49 | 1.6 | 10.4 |
| Sikkim | 53 | 48 | -4 | -0.1 | -8.4 |
| FSTPP I & II | 903 | 897 | -6 | -0.2 | -0.7 |
| FSTPP III | 215 | 214 | -1 | 0.0 | -0.5 |
| KHSTPP I | 451 | 450 | -1 | 0.0 | -0.2 |
| KHSTPP II | 825 | 824 | -1 | 0.0 | -0.1 |
| TSTPP I | 598 | 597 | 0 | 0.0 | -0.1 |
| BARH II | 879 | 875 | -5 | -0.1 | -0.5 |




- Total Number of Deviation violation and zero crossing violation messages issued during December-2017 :- 196
- Deviation Violation Messages :- 175 & Zero Crossing Violation :- 21



- Total Number of Deviation violation and zero crossing violation messages issued during January – 2018 :- 157
- Deviation Violation Messages :- 111 & Zero Crossing Violation :- 46

Teesta – III & Teesta – V Dispatch Pattern during lean hydro inflow



State Hydro Generators Performance



Total Installed Capacity of Odisha Hydro = 1917.5 MW Total Effective Installed Capacity* = 1485 MW

* Effective Installed capacity is calculated considering units on bar at different Hydro Stations

BURLA GEN (49.5*2+32*2+37.5*3=237.5 MW)





| Unit No | Date of Outage | Reason |
|---------|----------------|---------------|
| U - 3 | 02.01.2018 | Annual Maint. |
| U - 5 | 25.10.2016 | R & M Work |
| U - 6 | 16.10.2015 | R & M Work |





| | Date of Outage | Reason |
|------------------|-----------------|----------------------|
| U – 1(60 MW) | 05.08.16 | R & M Work |
| U – 7 (75 MW) | 12.10.17(17:30) | Generator problem |
| U – 2(60 MW) | 20.11.17 | R & M Work |

U – 5 synchronize date?





LIPPER KOLAB (80*4=320 MW)



UPPER KOLAB RESERVOIR LEVEL (CAP =320 MW)



| Unit No | Date of Outage | Reason |
|-----------------|-------------------|---|
| U – 2(80 MW) | 28.05.2017 | Repair of MIV & Draft Tube Gate leakage |

PPSP GEN / MOT (225*4=900 MW)



Statistics of VDI of various S/S* in Eastern Region for January, 2018

| % of time | No of S/S having voltage higher than IEGC limit for | No of S/S having voltage lower than IEGC limit for | No of S/S having voltage not in IEGC band for |
|-------------------|---|--|---|
| 100% | 1 | 0 | 1 |
| >= 50% but < 100% | 4 | 0 | 4 |
| >= 30% but < 50% | 2 | 0 | 2 |
| >= 10% but < 30% | 11 | 0 | 11 |

* For all S/S at 400 kV and above voltage level and selective S/S at 220 kV and lower level where voltage data were available in SCADA for considerable amount of time

% of time voltage more than IEGC limit





Voltage profile at Meramundali may rise due to outage of Line Reactor

Network Inadequacy of DVC system

For meeting load as well as generation evacuation

Wide spread blackout on 19.01.18 in DVC system

- Due to Wrong operation Kalyaneswari 220 KV Main Bus -1 tripped and trigger a wide spread black out in DVC system as shown in the next slide.
- Prevailing System Conditions :
- i. Line Line #24,25 (Howrah-Belmuri) : Loop open at Howrah end
- ii. Line # 76 (Burdwan-DTPS) : Shut down due to maintenance activities
- iii. Line #12 : Kept OFF from Patherdih end.
- iv. Line#61 (CTPS-Ramkanali-Jamuria): CTPS-Ramkanali section open at Ramkanali and Ramkanali-Jamuria section was in servive.



After tripping of 2 ATR of 220 KV BUS 1 at Kalyaneswari 3rd ATR of BUS 2 tripped on over load

Then DTPS 3 ATRs tripped

Then Tripping of 132 KV CTPS Ramkanali and Putki-Patherdih took place

> Wide spread black out



Kalyaneswari ATR flows (19.01.18)

—KLYNS_DV - 220/132_Auto_ICT3_Pri_P __KLYNS_DV - 220/132_Auto_ICT2_Pri_P KLYNS_DV - 220/132_Auto_ICT1_Pri_P 200 180 160 140 120 100 80 60 40 20 0 2:23:30 2:22:00 2:34:00 2:38:30 -20 2:10:00 2:11:30 2:13:00 2:14:30 2:16:00 2:17:30 2:19:00 2:20:30 2:25:00 2:26:30 2:28:00 2:29:30 2:31:00 2:32:30 2:35:30 2:37:00 2:40:00

Other frequently occurring congestion

• <u>Bokaro 315 MVA 400/220 ICT</u> –

During shutdown or forced outage of 220kV Jindal-Jamshedpur tie ,generally its overloading took place .

Bokaro-A generation evacuation:

During outage of 400 KV Bokaro-Koderma D/C only one ICT at Bokaro in not enough to evacuate its generation.

• <u>220kV Bokaro-B – CTPS-B D/C line:</u>

During low generation at CTPS-B, its overloading took place and n-1 security criteria is not satisfied

Recommendation

- Long term proper system strengthening plan .
- As the network is well meshed in DVC system that's why tripping at one point have high impact on other point. So proper <u>short term Load</u> <u>shedding scheme taking load pattern into</u> <u>account may be designed to restrict wide spread</u> black out in DVC system ,which could also have impact on the other grid connected utility.

Annexure-A4

Reactive power performances of various units in the month of January, 2018

Reactive power injection and terminal bus voltage are compared for various generating units in ER.

- Scatter plot is plotted with taking
 - Terminal voltage across x axis
 - Reactive power injection across y axis
 - (Nominal terminal voltage (kV), 0 MVAr) as origin
- MVAr injection should reduce with increase in terminal voltage

FSTPP unit #III





January, 2018: Maximum MVAr absorption is 80MVAr % of time with positive VAR injection when voltage was more than IEGC limit 21% December, 2017 : Maximum MVAr absorption is 90 MVAr % of time with positive VAR injection when voltage was more than IEGC limit 0%

There was no MVAR injection during high voltage condition in the month of December, 2017 whereas during January some instances observed for injection during High Voltage

Governor response observed in ER generating units

1. 1050 MW generation loss at Teesta at 17:34 hrs at 10-01-18
2. 1250 MW generation loss at Koderma at 10:46 hrs on 30-01-18

Generation loss at Teesta at 17:34 hrs at 10-01-18. Frequency changed from 50.02 Hz to 49.96 Hz

| Namo | Initial | Final | Change in | Ideal | % of Ideal | Pomarks |
|------------|------------|------------|------------|----------|------------|--------------------------------------|
| Name | generation | generation | generation | response | response | REIIIdIKS |
| FSTPP #1 | 188.4 | 193.6 | 5.1 | 4.7 | 110% | Satisfactory |
| JITPL #2 | 529.0 | 533.0 | 4.0 | 13.1 | 30% | Below Satisfactory |
| KhSTPP #1 | 189.9 | 191.2 | 1.3 | 4.7 | 27% | Unsatisfactory |
| FSTPP #3 | 199.9 | 201.3 | 1.3 | 5.0 | 27% | Unsatisfactory |
| MPL #2 | 507.0 | 509.0 | 2.0 | 12.6 | 16% | Unsatisfactory |
| MPL #1 | 509.0 | 511.0 | 2.0 | 12.6 | 16% | Unsatisfactory |
| KhSTPP #5 | 495.9 | 496.2 | 0.3 | 12.3 | 2% | Unsatisfactory |
| KhSTPP #6 | 431.8 | 431.8 | 0.0 | 10.7 | 0% | Unsatisfactory |
| | | | | | | Unsatisfactory (Above 630 MW FGMO |
| Barh Unit- | | | | | | is not in service due to reheater |
| 5 | 642.0 | 641.6 | -0.5 | 15.9 | -3% | problem) |
| FSTPP #4 | 471.3 | 470.6 | -0.7 | 11.7 | -6% | Unsatisfactory |
| FSTPP #2 | 199.3 | 198.8 | -0.5 | 4.9 | -10% | Unsatisfactory |
| FSTPP #5 | 471.9 | 469.9 | -2.1 | 11.7 | -18% | Unsatisfactory |
| KhSTPP #4 | 215.7 | 214.7 | -1.0 | 4.8 | -20% | Unsatisfactory |
| | | | | | | Unsatisfactory (Reduction of |
| Barh Unit- | | | | | | generation was being taken place due |
| 4 | 651.7 | 646.5 | -5.3 | 16.2 | -33% | to tripping of coal mill) |
| KhSTPP #7 | 274.9 | 271.4 | -3.5 | 6.8 | -52% | Unsatisfactory |
| KhSTPP #2 | 203.7 | 200.5 | -3.2 | 5.1 | -63% | Unsatisfactory |



Data/Reason given by generator Initial generation more than I/C

1250 MW generation loss and 350 MW load loss at Koderma at 10:46 hrs on 30-01-18. Frequency changed from 49.90 Hz to 49.84 Hz

| Namo | Initial | Final | Change in | Ideal | % of Ideal | Bomarks |
|------------|------------|------------|------------|----------|-------------------|----------------------------------|
| Name | generation | generation | generation | response | response | Remarks |
| KhSTPP #1 | 126.5 | 129.7 | 3.2 | 3.3 | <mark>97</mark> % | Satisfactory |
| KhSTPP #2 | 210.7 | 212.9 | 2.2 | 5.5 | 41% | Below Satisfactory |
| KhSTPP #4 | 212.8 | 214.7 | 1.9 | 5.5 | 35% | Below Satisfactory |
| FSTPP #4 | 346.5 | 349.5 | 3.1 | 9.0 | 34% | Below Satisfactory |
| KhSTPP #5 | 491.8 | 493.3 | 1.5 | 12.8 | 11% | Unsatisfactory |
| KhSTPP #7 | 507.1 | 508.3 | 1.2 | 13.2 | 9 % | Unsatisfactory |
| MPL #2 | 506.0 | 507.0 | 1.0 | 13.2 | 8% | Unsatisfactory |
| | | | | | | Unit generation was more than |
| | | | | | | schedule, further loading could |
| Barh Unit- | | | | | | not be contributed due to boiler |
| 4 | 634.6 | 633.6 | -1.0 | 16.5 | -6% | side transient conditions |
| Barh Unit- | | | | | | RGMO was out due to FD fan |
| 5 | 428.6 | 427.6 | -1.0 | 11.1 | -9% | problem |
| FSTPP#3 | 155.3 | 155.0 | -0.4 | 4.0 | -9% | Unsatisfactory |
| FSTPP #1 | 147.4 | 146.9 | -0.5 | 3.8 | -13% | Unsatisfactory |
| FSTPP #2 | 158.6 | 157.8 | -0.9 | 4.1 | -21% | Unsatisfactory |
| KhSTPP #6 | 492.1 | 487.1 | -5.0 | 12.8 | -39% | Unsatisfactory |

Initial generation more than I/C Data/Information received from the generator

| VDI of Selected 765 kV & 400 kV in Eastern | Region in the month of January - 2018 |
|--|---------------------------------------|
|--|---------------------------------------|

| नई र | नई रांची / Ranchi New | | | दपुर / Jamsh | nedpur | मुजफ्फरपुर / Muzaffarpur | | |
|----------|-----------------------|-----------|-----|--------------|-----------|--------------------------|-----|-----------|
| _ | 1 | VDI (% of | | | VDI (% of | | | VDI (% of |
| MAX | MIN | Time) | MAX | MIN | Time) | MAX | MIN | Time) |
| 792 | 758 | 0.00 | 426 | 409 | 19.90 | 417 | 388 | 0.00 |

| बिहार | बिहार शरीफ / Bihar Sariff | | बिनागुरी / Binaguri | | | जीरत / Jeerat | | |
|-------|---------------------------|--------------------|---------------------|-----|--------------------|---------------|-----|--------------------|
| MAX | MIN | VDI (% of Time) | MAX | MIN | VDI (% of Time) | MAX | MIN | VDI (% of Time) |
| 421 | 399 | 0.09 | 425 | 399 | 15.22 | 432 | 397 | 39,10 |

| राउरकेला / Rourkela | | जयपोर / Jeypore | | | कोडरमा / Koderma | | | |
|---------------------|-----|--------------------|-----|-----|--------------------|-----|-----|--------------------|
| MAX | MIN | VDI (% of Time) | MAX | MIN | VDI (% of Time) | MAX | MIN | VDI (% of Time) |
| 420 | 404 | 0.00 | 424 | 367 | 0.65 | 427 | 403 | 0.97 |

| | मेथन / Maithon | | | तीस्ता / Teesta | | | रांगपो / Rangpo | | |
|-----|----------------|--------------------|-----|-----------------|--------------------|-----|-----------------|--------------------|--|
| MAX | MIN | VDI (% of Time) | MAX | MIN | VDI (% of Time) | MAX | MIN | VDI (% of Time) | |
| 421 | 403 | 0.12 | 425 | 389 | 10.48 | 422 | 386 | 1.76 | |

Eastern Regional Power Committee, Kolkata

Details of islanding schemes in Eastern Region

| Sr. | State | Name of Islanding | Generating Stations | Electrical | Present Status | Area / Load covered |
|-----|-----------|------------------------|-----------------------------|------------------|---------------------------------|-------------------------------------|
| No | | Scheme | Covered | Size(in MW) | | |
| 1 | West | CESC | Titagarh, Budge-Budge | 1100 MW | Operational. | CESC load of Kolkata area |
| | Bengal | | | | | LOADS: |
| | | | | | | All major city loads are covered |
| | | Bakreswar TPS, | Bakreswar TPS | 715 MW | Operational wef from 31.03.2015 | LOADS: |
| | | WBPDCL | | | | Satgachia, Krishnanagar, Ranaghat, |
| | | | | | | Debagram, Katwa, Kalna, Gokarna, |
| | | | | | | Behrampur, Amtala, Rampurhat, |
| | | | | | | Raghunathganj&Lalgola |
| | | Tata Power, Haldia | Haldia 120 MW | 92 MW | Operational wef 24.04.2015. | Haldia and its adjoining area |
| | | | | | | LOADS: |
| | | | | | | Industrial areas of Haldia and Port |
| | | Bandel TPS, | Bandel TPS | 110 MW | Being implemented through | LOADS: |
| | | WBPDCL | | | PSDF | Khanyan, Chanditala & Bighati |
| 2 | Jharkhand | Farakka STPS | One unit of Farakka STPS | 180 MW | Operational with unit 1 & 3 of | Lalmatia, Dumka and Sahebgunj |
| | | | | | FSTPS | LOADS : Coal mines and Indo- |
| | | | | | | Bangladesh international border |
| 2 | DUG | | | 105 101 | | |
| 3. | DVC | Chandrapura TPS | Chandrapura TPS | 125 MW | Operational wef from 15.06.2015 | Chaddrapura connected area |
| | | (132KV) of DVC | | | | |
| | D'1 | system | | | | |
| 3. | Bihar | Studies in progress to | extend above Farakka Island | ing scheme to ir | iclude Bihar areas as well. | |
| 4. | Odisha* | Islanding Scheme of | IB TPS | 420 MW | Scheme finalized. Under | Budhipadar |
| | | IB TPS | | | implementation stage. | LOADS : local loads to power plant |

* Many CPPs like NALCO, HINDALCO, IFFCO, Rourkela Steel Plant, etc. in Odisha are also having islanding schemes.

JHARKHAND URJA SANCHARN NIGAM LIMITED

Office of the

Chief Engineer, SLDC/ULDC & Telecom

Kusai Colony, Doranda, Ranchi

Phone: 0651-2490090, Fax: 0651-2490486, Email: sldcranchi@gmail.com

Letter No. 58 'SLDC/ ULDC, Ranchi, From,

Dated, 08-02-2018

C.M. Sharma C.E. (SLDC/ULDC & Telecom), Kusai Colony, Ranchi

To,

Shri J.Bandyopadhyay Member Secretary (ERPC) 14 Golf club road, Tollygunge, Kolkata,

Request for inclusion of an item in the agenda of 142th OCC meeting regarding Sub: charging of Daltongani (PG)-Daltongani (JUSNL) Transmission line. Ref: Email dated 7th Feb 2018 of Sri S.Bannerjee, ERLDC.

Sir,

With reference to the above; it is to intimate that Load flow analysis of 132KV Daltongani (PG)-Daltonganj (JUSNL) Transmission Line has been conducted by ERLDC keeping minimum one unit of TTPS in service. In case of availability of only one unit of TTPS the loading on 220KV Ranchi (PG)-Hatia (II) will increase drastically to compensate the load in Ranchi Zone. Due to this the voltage profile in Loherdaga, Gumla, Latehar and Daltonganj will be affected adversely. Neither JUSNL nor JBVNL are having capacitor bank arrangement for arresting the low voltage profile in the system, in this situation.

We have traction load connected from Hatia-I, Namkum and Kamdara for feeding important railway TSS in Ranchi-Rourkela section, which suffer a lot due to such low voltage profile in case of non availability of TTPS units.

To give a relief on Ranchi (PG)-Hatia (II) Transmission Line in case of outage of TTPS units the supply load of Daltonganj (50 to 60 MW peak) needs to be shifted to Daltonganj (PG) either by considering Radial Mode of connection or by exploring any other suitable arrangement so that the loading on Daltonganj (PG) should remain minimum 50-60 MW.

It is therefore requested to kindly include this item in the Agenda of 142th OCC meeting for proper discussion and decision.

> Yours faithfully, (C.M. Sharma) C.E, SLDC/ULDC in

Rut

| | Generation Projection (April 2018 - June 2018) | | | | | | | | | | | | | | | | |
|------------|--|------------|--|----------|-------------|-----------------------|------------------------|--|----------|----------|-------------------------------|------------------------|-----------|-------|---|---|--|
| | | | Generation declared Commercial from 1st July '17 to 31st Dec'17 | | | | | Generation declared/expected to be declared Commercial from 1st Jan'18 to 31st Mar'18 | | | | | | | | | |
| SI. No. | Entities | Regio n | Projection s based on 3 Years Data | Bus Name | Unit No. | Installed Capacity | Gen. considere d | Sub Total | Bus Name | Unit No. | Installe d Capacit y | Gen. considere d | Sub Total | TOTAL | Comments From DICs /Others (if any) | Figure as per Comments/ PoC Data | Projected Generation before normalization w.r.t projected All India Peak Demand |
| | | | (MW) | | | (MW) | (MW) | (MW) | | | (MW) | (MW) | (MW) | (MW) | | | (MW) |
| 1 | West Bengal | ER | 5234 | | | | | | | | | | | 5234 | | | 5234 |
| 2 | Odisha | ER | 3050 | | | | | | | | | | | 3050 | As per data given by GRIDCO | 3177 | 3177 |
| 3 | Bihar | ER | 241 | | | | | | | | | | | 241 | | | 241 |
| 4 | Jharkhand | ER | 340 | | | | | | | | | | | 340 | | | 340 |
| 5 | Sikkim | ER | 0 | | | | | | | | | | | 0 | | | 0 |
| 6 | Chujachan | ER | 113 | | | | | | | | | | | 113 | As per CERC order dated: 22.06.2017 | 99 | 99 |
| 7 | DVC | ER | | | | | | | | | | | | | | | |
| 8 | Durgapur Steel | ER | - | | | | | | | | | | | | | | |
| 9 | Koderma TPP | ER | 4738 | | | | | | | | | | | 4738 | As per data given by DVC | 4527 | 4527 |
| 10 | Bokaro TPS | ER | - | | | | | | | | | | | | | | |
| 11 | Raghunathpur | ER | - | | | | | | | | | | | | | | |
| 12 | MPL | ER | 1013 | | | | | | | | | | | 1013 | | | 1013 |
| 13 | Teesta V | ER | 533 | | | | | | | | | | | 533 | As per NHPC data | 510 | 510 |
| 14 | Kahalgaon | ER | 2155 | | | | | | | | | | | 2155 | As par NTDC | 2178 | 2178 |
| 15 | Farakka | ER | 1857 | | | | | | | | | | | 1857 | Aspenning | 1968 | 1968 |
| 16 | Talcher | ER | 972 | | | | | | | | | | | 972 | | | 972 |
| 17 | Rangit | ER | 70 | | | | | | | | | | | 70 | As per NHPC data | 60 | 60 |
| 18 | Adhunik Power | ER | 519 | | | | | | | | | | | 519 | | | 519 |
| 19 | Barh | ER | 1252 | | | | | | | | | | | 1252 | As per NTPC | 1057 | 1057 |

| | Generation Projection (April 2018 - June 2018) | | | | | | | | | | | | | | | | |
|------------|--|------------|---|--|-------------|-----------------------|------------------------|--------------|----------------------------|-----------------------|-------------------------------|------------------------|-----------|-------|---|---|--|
| | | | | Generation declared Commercial from 1st July '17 to 31st Dec'17 | | | | | Generation declare from | d/expect 1st Jan'1 | ed to be o 8 to 31st | leclared C Mar'18 | ommercial | | | | |
| SI. No. | Entities | Regio n | Projection s based on 3 Years Data | Bus Name | Unit No. | Installed Capacity | Gen. considere d | Sub Total | Bus Name | Unit No. | Installe d Capacit y | Gen. considere d | Sub Total | TOTAL | Comments From DICs /Others (if any) | Figure as per Comments/ PoC Data | Projected Generation before normalization w.r.t projected All India Peak Demand |
| | | | (MW) | | | (MW) | (MW) | (MW) | | | (MW) | (MW) | (MW) | (MW) | | | (MW) |
| 20 | Kamalanga TPP (GMR) | ER | 595 | | | | | | | | | | | 595 | | | 595 |
| 21 | JITPL | ER | 894 | | | | | | | | | | | 894 | | | 894 |
| 22 | Jorethang | ER | 102 | | | | | | | | | | | 102 | As per CERC order dated: 22.06.2017 | 96 | 96 |
| 23 | Bhutan | ER | 1213 | | | | | | | | | | | 1213 | | | 1213 |
| | | ER | 959 | | | | | | | | | | | | As per CERC order dated: 22.06.2017 782 | | |
| | | ER | | | | | | | | | | | | | | | |
| 24 | Teesta-III | ER | | | | | | | | | | | | 959 | | 782 | 782 |
| | | ER | | | | | | | | | | | | 000 | | | |
| | | ER | | | | | | | | | | | | | | | |
| | | ER | | | | | | | | | | | | | | | |
| 25 | | ER | 83 | | | | | | Dikchu | 1 | 48 | 48 | 95 | 95 | | | |
| 26 | DIRCHUTIEF | ER | 00 | | | | | | Dikchu | 2 | 48 | 48 | | 33 | | | 33 |
| 27 | Nabinagar BRBCL | ER | | Nabinagar BRBCL | 1 | 230 | 151 | 151 | Nabinagar BRBCL | 2 | 230 | 151 | 151 | 301 | | | 301 |
| 28 | Tashiding HEP | FR | | | | | | | Tashiding HEP | 1 | 49 | 48 | 96 | | | | 96 |
| | | | | | | | | | Tashiding HEP | 2 | 49 | 48 | 90 | 90 | | | 90 |
| | TOTAL | | 25933 | | | | | 151 | | | | | 342 | 26342 | | | 25968 |

Note:

1. Projections are based on monthly maximum injection in the last 3 years from actual metered data.

2. Generation forecast has been done based on the following criteria

(i) If there is an increasing trend then last year average generation has been considered

(ii) Otherwise average of past three year average generation has been considered

3. In case of new generators where past data was not available following has been assumed

(i) 1.0 plf for hydro generators(ii) 0.7 plf for thermal generators.

(iii) 0.3 plf for gas stations

| | DEMAND FORECAST USING PAST 3 YEARS DATA (April 2018 - June 2018) | | | | | | | | | | | | | | | |
|----------------|--|-------------------|--------|--------|-------------------|--------|--------|-------------------|-----------------|---------------------|-------------------------|---------------------|---|-----------------------|-----------------------------|--|
| | | | | | | | | | | 1 | 2 | 3 | 4 | | | |
| | Apr-15 | 2015-16 May-15 | Jun-15 | Apr-16 | 2016-17 May-16 | Jun-16 | Apr-17 | 2017-18 May-17 | Jun-17 | 2015-16 Av erage | 2016- 17Av erag e | 2017-18 Av erage | Projected Demand for (April 2018 June 2018) before normalization | Data given by DICs | Comments | |
| Bihar | 2,945 | 2,630 | 2,892 | 3,521 | 3,638 | 3,441 | 3,904 | 4,021 | 4,131 | 2,822 | 3,533 | 4,019 | 4,654 | | | |
| DVC | 2,547 | 2,610 | 2,719 | 2,562 | 2,478 | 2,686 | 2,651 | 2,684 | 2,518 | 2,625 | 2,575 | 2,618 | 2,598 | 2945 | As per data given by DVC | |
| Jharkhand | 1,043 | 1,067 | 1,083 | 1,177 | 1,498 | 1,119 | 1,197 | 1,211 | 1,228 | 1,064 | 1,265 | 1,212 | 1,328 | | | |
| Odisha | 3,850 | 3,880 | 3,824 | 4,012 | 3,898 | 3,970 | 4,227 | 4,208 | 3,929 | 3,851 | 3,960 | 4,121 | 4,248 | 4401 | As per data given by GRIDCO | |
| West Bengal | 7,517 | 7,629 | 7,853 | 7,602 | 7,641 | 7,542 | 7,793 | 7,495 | 7,768 | 7,666 | 7,595 | 7,685 | 7,668 | | | |
| Sikkim | 77 | 77 | 83 | 112 | 93 | 93 | 91 | 78 | 78 | 79 | 99 | 82 | 90 | | | |
| Eastern Region | 17,304 | 17,221 | 17,710 | 18,345 | 18, 596 | 18,213 | 19,191 | 19,032 | 18, 9 87 | | | | | | | |

Notes

1. Projections are based on the past 3 years' monthly Peak Demand Met data available on the website of CEA

The above projections are being done for financial year 2018-2019 (Q1) i.e April 2018 to June 2018
Projections are being done based on the forecast function available in MS Office Excel

3. Projections are being done based on the forecast function available in M. 4. CEA Reports can be accessed from the following links: http://www.cea.nic.in/reports/monthly/powersupply/2017/psp_peak-04.pdf http://www.cea.nic.in/reports/monthly/powersupply/2017/psp_peak-05.pdf http://www.cea.nic.in/reports/monthly/powersupply/2016/psp_peak-04.pdf http://www.cea.nic.in/reports/monthly/powersupply/2016/psp_peak-04.pdf http://www.cea.nic.in/reports/monthly/powersupply/2016/psp_peak-04.pdf http://www.cea.nic.in/reports/monthly/powersupply/2016/psp_peak-04.pdf http://www.cea.nic.in/reports/monthly/powersupply/2016/psp_peak-04.pdf http://www.cea.nic.in/reports/monthly/powersupply/2016/psp_peak-04.pdf http://www.cea.nic.in/reports/monthly/powersupply/2015/psp_peak-04.pdf http://www.cea.nic.in/reports/monthly/powersupply/2015/psp_peak-05.pdf http://www.cea.nic.in/reports/monthly/powersupply/2015/psp_peak-05.pdf

Annexure-B16

PPA details for the year 2017-18 to 2019-20

Name of the State :

| ivam | | | | | | | | | | | | | |
|---------|---|--------------------------------|---------------------------|------------------------------|--------------------------------|---------------------------|------------------------------|--------------------------------|---------------------------|------------------------------|--|--|--|
| | | | 2017-18 | | | 2018-19 | | 2019-20 | | | | | |
| | | Share/Contracted power (in MW) | Fixed Charges (Rs/kwh) | Variable charges (Rs/kwh) | Share/Contracted power (in MW) | Fixed Charges (Rs/kwh) | Variable charges (Rs/kwh) | Share/Contracted power (in MW) | Fixed Charges (Rs/kwh) | Variable charges (Rs/kwh) | | | |
| 1 | . Hydro Generation | | | | | | | | | | | | |
| (a) | Own generation | | | | | | | | | | | | |
| i. | Power station I | | | | | | | | | | | | |
| ii. | Power station II | | | | | | | | | | | | |
| iii. | Power station III | | | | | | | | | | | | |
| iv. | Power station IV | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| (b) | CGS generation | | | | | | | | | | | | |
| i. | Power station I | | | | | | | | | | | | |
| ii. | Power station II | | | | | | | | | | | | |
| iii. | Power station III | | | | | | | | | | | | |
| iv. | Power station IV | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| (c) | IPP`s generation | | | | | | | | | | | | |
| i. | Power station I | | | | | | | | | | | | |
| ii. | Power station II | | | | | | | | | | | | |
| iii. | Power station III | | | | | | | | | | | | |
| iv. | Power station IV | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 2. (| Thermal Generation Coal/Gas/Nuclear) | | | | | | | | | | | | |
| (a) | Own generation | | | | | | | | | | | | |
| i. | Power station I | | | | | | | | | | | | |
| ii. | Power station II | | | | | | | | | | | | |
| iii. | Power station III | | | | | | | | | | | | |
| iv. | Power station IV | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| (b) | CGS generation | | | | | | | | | | | | |
| i. | Power station I | | | | | | | | | | | | |
| ii. | Power station II | | | | | | | | | | | | |
| iii. | Power station III | | | | | | | | | | | | |
| iv. | Power station IV | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| (c) | IPP`s generation | | | | | |
|------|-------------------|--|--|--|--|--|
| i. | Power station I | | | | | |
| ii. | Power station II | | | | | |
| iii. | Power station III | | | | | |
| iv. | Power station IV | | | | | |
| | | | | | | |
| | | | | | | |
| | 3. RES Generation | | | | | |
| (a) | Own generation | | | | | |
| i. | Power station I | | | | | |
| ii. | Power station II | | | | | |
| iii. | Power station III | | | | | |
| iv. | Power station IV | | | | | |
| | | | | | | |
| | | | | | | |
| (b) | CGS generation | | | | | |
| i. | Power station I | | | | | |
| ii. | Power station II | | | | | |
| iii. | Power station III | | | | | |
| iv. | Power station IV | | | | | |
| | | | | | | |
| | | | | | | |
| (c) | IPP`s generation | | | | | |
| i. | Power station I | | | | | |
| ii. | Power station II | | | | | |
| iii. | Power station III | | | | | |
| iv. | Power station IV | | | | | |
| | | | | | | |
| | | | | | | |

Annexure-B17

FoR Technical Committee on Grid Integration of Renewable Energy (RE), with reference to regional cooperation and other options for managing intra-day load / generation variation due to RE or otherwise -- Record of Proceedings of the meeting held on 18.8.2017.

In order facilitate implementation of Framework on Renewables at State Level, FoR constituted a Technical Committee under the Chairmanship of Shri A.S. Bakshi, Member, CERC. The mandate given to the Committee *inter alia* includes evolving a roadmap for implementation of Framework on Forecasting, Scheduling and Deviation Settlement of Wind & Solar generating stations at State Level, implementation of ABT Framework, introduction of Ancillary Services and Reserves, implementation of Automatic Generation and Primary Control etc.

2. The Technical Committee in its meeting held on 28.3.2017 at Chennai, discussed the matter related to Co-operation among States for Optimum Utilization of their Generation Resources, amongst the other issues. During the discussion, it was decided that sub-groups be constituted in the Northern Region, Western Region and Southern Region (the three RE rich regions) headed by the Member Secretaries of the respective Regional Power Committees (RPCs). The Sub-groups were mandated to examine the feasibility and modality of co-operation among States in the respective region for ensuring optimum utilization of generation resources with least cost options for balancing across the region and submit their findings before the Technical Committee.

3. A meeting of the Heads / Representatives of the Sub-Groups was convened under the Chairmanship of Shri A.S.Bakshi, Member, CERC on 18.8.2017 in CERC, New Delhi to review the progress on framework for regional co-operation. The list of participants is at **Annexure - I.**

4. The following emerged during the deliberations in the meeting:-

- Of late, the States have recognized the value of electricity resource vis-à-vis the cost of generation. Some of the States are not willing to cooperate with other States in the Region on "cost" basis.
- It was also observed that some of the Regions are predominantly "Surplus" in power, leaving little scope for co-operation within the region. This necessitates a national level framework / product for optimum resource utilization.
- Various other options for handling intra-day load / generation variation due to RE or otherwise were also discussed as at **Annexure-II**, viz. (i) Banking; (ii) DAM price on PX as reference; (iii) Pool based on VC as approved by the Regulator and on payment of cost; (iv) Pool based on VC as approved by the Regulator and on payment of MC; (v) Pool based on auction for intra-day for the rest of the day; (vi) Pool based on auction for intra-day on hourly basis; (vii) Pool based on auction for intra-day on intra-hour basis i.e for 15 min. block-wise etc.

5. During the meeting it was decided to share with all RPCs the options raised therein and seek feedback.

List of participants attended meeting of the Sub-Group under FOR Technical Committee Meeting held on 18.8.2017 under the Chairmanship of Shri A.S. Bakshi, Member, CERC

- 1. Shri A.S. Bakshi, Member, CERC
- 2. Dr. M.K. Iyer, Member, CERC
- 3. Shri M.A.K.P. Singh, Member Secretary, NRPC
- 4. Shri A. Balan, Member Secretary, WRPC
- 5. Shri S.R. Bhat, Member Secretary, SRPC
- 6. Shri S.C. Shrivastava, Chief (Engineering), CERC
- 7. Dr. S.K. Chatterjee, Joint Chief (Regulatory Affairs), CERC
- 8. Shri K.V.S. Baba, CEO, POSOCO
- 9. Shri S.K. Soonee, Advisor (POSOCO)
- 10. Smt. Shilpa Agarwal, Joint Chief (Engg.)
- 11. Shri S.S. Barpanda, GM, NLDC
- 12. Shri Samir Saxena, DGM, NLDC
- 13. Shri M.M. Chaudhari Deputy Chief (Engg.)
- 14. Smt. Shruti Deorah, Advisor (RE), CERC
- 15. Shri Anil, SRPC
- 16. Shri H.K. Pandey, S.E, NRPC
- 17. Shri Rajasekhar Devaguptapu, Regulatory Executive Officer, CERC
- 18. Shri Siddharth Arora, Research Officer, CERC

I. Options for Intra-Day / Hour Ahead transactions:

Seven options have been proposed for Hour Ahead Transactions.

Option-1: Banking

- Pros: Voluntary; No price transaction; Easy to implement
- Cons: Still bilateral; Opaque to cheaper options; True marginal cost of meeting demand not known; Elements of Cost and Value missing; No knowledge of gain or loss

Option-2: Day Ahead Market Price on Power Exchange as reference

- Pros: Well accepted reference price; Dispute free
- Cons: Very remote chance of availability of generation sources with marginal cost equal to or less than Day Ahead Market(DAM) price; Liquidity will always be an issue

Option-3: Pool, based on variable cost as approved by the Regulator and on payment of cost

- Pros: Visibility of all options for purchase decision; Dispute free as regulator approved Variable Cost (VC); All resources get paid as per their cost or marginal cost; Improvement over option 2, liquidity
- Cons: Still based on cost and not on value; VC difficult to ascertain; Merchant plants cannot participate as their tariffs are not determined by regulator

Option-4: Pool, based on variable cost as approved by the Regulator and on payment of marginal cost

- Pros: Same as Option 3; Improvement over Option 3 element of 'value' introduced because of marginal cost based payment
- Cons: VC difficult to ascertain; Merchant plants cannot participate as their tariffs are not determined by regulator; Payment based on marginal cost may lead to heart burn; still administered

Option-5: Pool, based on auction (intra-day for the rest of the day)

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of Power Exchange (PX); Discoms' decision making process; OA registry, a pre-requisite

Option-6: Pool, based on auction (hourly)

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of PX; Discoms decision making process; OA registry, a pre-requisite

Option-7: Pool, based on auction (intra-hour i.e. 15 min. block)

- Pros: Market Discovered Price; Dispute free; Not administered; Akin to DAM but closer to real time
- Cons: Preparedness of PX; Discoms' decision making process; OA registry, a pre-requisite

II. Illustration:

- a. Auction: 7.30 Hrs. 8.00 Hrs. window, transaction for <u>'rest of the day' (Intra-day :</u> Option 5) / <u>'for 9.00 10.00 Hrs.' (Hourly : Option 6)</u> / <u>'for 9.00 9.15 Hrs.' (Intra-hour : Option 7)</u>, and so on
- b. Generators can participate for sale of surplus power (over and above already scheduled on day-ahead basis)
- c. Sellers (other than generators) and buyers can participate for surplus / deficit vis-à-vis their schedule on day-ahead basis
- d. After the trade materializes under Option 5, 6 or 7 as the case may be, net schedule for the buyers and sellers shall be prepared, which will serve as reference point for DSM / UI
- e. However, payment for 'Day-ahead' transaction and <u>'Intra-day' (Option 5)</u> / <u>'Hourly'</u> (Option 6) / <u>'Intra-hour' (Option 7)</u> transactions shall be settled separately based on the schedules for the respective segments
- f. Open Access Registry and delegation of decision making authority to operating level at Discom are pre-conditions to success of this framework.

LIST OF FEEDERS IDENTIFIED TO BE DISCONNECTED UNDER RLDC INSTRUCTION, TO CONTROL OVERDRAWAL OF THE CONCERNED STATE

WB System

| Priority | Feeders/ICTs | Point of Disconnection |
|----------|-----------------------------------|------------------------|
| 1 | 220 kV Dalkohla (PG)-Dalkohla(WB) | 220 kV Dalkohla-PG |
| 2 | 132 kV Malda (PG)-Malda(WB) | 132 kV Malda-PG |
| 3 | 132 kV Birpara(PG)-Birpara(WB) | 132 kV Birpara(PG) |

Odisha System

| Priority | Feeders/ICTs | Point of Disconnection |
|----------|--------------------------------------|------------------------|
| 1 | 220 kV Rengali(PG)-Rengali(OPTCL) | 220 kV Rengali-PG |
| 2 | 220/132 kV Baripada 160 MVA ICT | 220 kV Baripada-PG |
| 3 | 220 kV Baripada(PG)-Balsore (Odisha) | 220 kV Baripada-PG |
| Intra-s | state Feeders | Remarks |

| inita-state reeuers | Remarks |
|---------------------------------------|---------|
| 132kV Bolangir(New)-Patnagarh S/C | |
| 132kV Chhatrapur – Ganjam S/C | |
| 132kV Bhanjanagar-Phulbani S/C | |
| 132kV Chandaka-Nimapara / Ranasighpur | |
| 132kV Baripada(PG)-Jaleswar/Bhograi | |
| 132kV Jajpur Rd. – Kendrapara D/C | |

DVC System (feeders identified are at 33kV)

| SUBSTN | NAME OF THE CONSUMER | Category | Rev. CD in MVA |
|-------------|--------------------------|----------|-------------------|
| Barhi | JSEB Barhi | JSEB | 30.0 |
| BTPS-A | JSEB Bokaro | JSEB | 24.0 |
| CTPS | JSEB Chas | JSEB | 20.0 |
| Konar | JSEB Konar Banaso | JSEB | 10.0 |
| Kumardubi | JSEB Mugma | JSEB | 22.0 |
| Giridih | JSEB Giridih | JSEB | 55.0 |
| Patherdih | JSEB Digwadih | JSEB | 17.0 |
| Patherdih | JSEB Gobindpur | JSEB | 40.0 |
| Putki | JSEB Ganeshpur | JSEB | 35.0 |
| Putki | JSEB Jamadoba | JSEB | 13.0 |
| Barhi | JSEB Padma PSS RGGVY | JSEB | 18.0 |
| CTPS | JSEB Dugdha | JSEB | 25.0 |
| Ramgarh | JSEB Ramgarh | JSEB | 80.0 |
| Konar | JSEB Karma PSS RGGVY | JSEB | 3.0 |
| Kumardubi | JSEB Kumardubi | JSEB | 9.0 |
| Nimiaghat | JSEB Dumri Banaso | JSEB | 40.0 |
| Patherdih | JSEB Mukunda | JSEB | 13.0 |
| Putki | JSEB Katras (Tilatand) | JSEB | 17.0 |
| Patherdih | PMCH Medical College | JSEB | 9.0 |
| Ramgarh | JSEB West Bokaro (Ghato) | JSEB | 1.5 |
| Sindri | JSEB Sindri | JSEB | 9.0 |
| Biada | JSEB Biada-Chas | JSEB | 15.0 |
| Putki | JSEB Katras(Sijua) | JSEB | 2.5 |
| Putki | JSEB Sendra Bansjora | JSEB | 4.0 |
| CTPS | JSEB Jainamore | JSEB | 22.0 |
| Maithon R/B | JSEB Badjna | JSEB | 18.0 |
| Belmuri | WBSEB Belmuri | WBSEB | 25.00 |
| Burdwan | WBSEB Burdwan | WBSEB | 48.00 |
| Kalipahari | WBSEB Kanyapur | WBSEB | 29.00 |
| Kalipahari | WBSEB Luchipur | WBSEB | 25.00 |
| Maithon L/B | WBSEB Dendua | WBSEB | 10.00 |
| Maithon L/B | WBSEB Kalyaneswary | WBSEB | 1.00 |
| MTPS | WBSEB Borjora | WBSEB | 10.00 |
| Patherdih | WBSEB Santhaldih | WBSEB | 0.80 |
| Jamuria | WBSEDCL Jamuria | WBSEB | 20.0 |

List of Sheddable Feeders of DVC

JUSNL System

| Priority | Feeders/ICTs | Point of Disconnection |
|----------|--------------------------------------|------------------------|
| 1 | One 400/220 kV 315 MVA ICT Jamsedpur | 400 kV Jamsedpur |
| 2 | 220 kV Ranchi(PG)-Chandil(JUVNL) | 220 kV Ranchi-PG |
| Intra-st | ate Feeders | Remarks |
| 132kV (| handil – Golmuri D/C | |
| 132kV [| Dumka-Pakur S/C | |

BSPTCL System

| Priority | Feeders/ICTs | Point of Disconnection |
|----------|-----------------------------------|------------------------|
| 1 | 132kV Banka(PG)-Banka D/C line | 132kV Banka PG |
| 2 | 132kV Banka(PG)-Sultanganj D/C | 132kV Banka PG |
| 3 | 132kV Ara(PG)-Jagdishpur S/C line | 132 kV Ara PG |

Overview of real time telemetry of Eastern regionAnnexure-C17



Availability above 99%, 17

ERLDC, POSOCO

Dikchu

2%

DALTONGANJ

MOTIHARI

8

Lalmatia

8

New Farakka

NTPC

80

OPGC

80

DSTPP



<u>Major concerns</u>

– Prolong outage:

- Sagardighi TPS (WB) since 13-12-2017.
- New Farakka (NTPC) since 09-09-2017.
- Lalmatia(NTPC) since 01-01-2018.

- Non availability of Unit side data \rightarrow

➢ Farakka STPS (Unit #6).

GMR (Unit #1, Unit #2, Unit #3)

| BIHAR | | | | | |
|-------------------------|--------------------------|------------------------|----------------------|-------------------------|------------------------|
| | List o | f station having | availability highe | r than 90% | |
| Biharsharif(220kV) | BODH GAYA(220kV) | Darbhanga(220kV) | Hajipur(220kV) | KHAGAUL(220kV) | Kishanganj new(220kV) |
| Madhepura(220kV) | Pusauli(220kV) | Sipara(220kV) | BARH(132kV) | BARIPAHARI(132kV) | BETIAH(132kV) |
| BIHTA(132kV) | Chhapra(132kV) | DIGHA(132kV) | Hajipur Old(132kV) | Jakkanpur(132kV) | Khagaria(132kV) |
| Kundra(132kV) | LAKHISARAI(132kV) | Raxaul (132kV) | Sabour(132kV) | Sasaram(132kV) | Shekhpura(132kV) |
| Sitamarhi(132kV) | Sonenagar(132kV) | Vaishali(132kV) | Valmikinagar(132kV) | Wazirganj(132kV) | |
| | List of station | having availabil | ity higher than 10% | and less than 90% | |
| GOPALGANJ(220kV) | Samastipur new(220kV) | Uda Kishanganj(220kV) | BANJARI(132kV) | DHAKA(132kV) | Dumraon(132kV) |
| Jagdishpur(132kV) | Jai Nagar(132kV) | Runisaidpur(132kV) | SAHARSA(132kV) | Sherghati(132kV) | Shitalpur(132kV) |
| SKMCH(132kV) | | | | | |
| | List of stations l | having availabilit | y (less than 10% or | RTU not integarated) | |
| Begusarai(220kV) | DEHRI(220kV) | Fatuha(220kV) | sonenagar new(220kV) | Arrah(132kV) | Aurangabad(132kV) |
| Banka(132kV) | Belaganj(132kV) | BIKRAMGANJ(132kV) | BUXAR(132kV) | Chandauti(132kV) | Dalsinghsarai(132kV) |
| Dhandaha(132kV) | Ekangarsarai(132kV) | Ekma(132kV) | Forbisganj(132kV) | Gaighat(132kV) | Gangwara(132kV) |
| GOH(132kV) | Harnaut(132kV) | Hathidah(132kV) | HULASGANJ(132kV) | Imamgunj(132kV) | Jahanabad(132kV) |
| Jamalpur(132kV) | Jamui(132kV) | Jandaha(132kV) | Kahalgaon(132kV) | KARBIGAHIA(132kV) | Karmnasa(132kV) |
| Karpi(132kV) | Katihar(132kV) | Katra(132kV) | Kishanganj(132kV) | Kochas (Dinara)(132kV) | Koshi(132kV) |
| (usheswar Asthan (132k) | / Madhubani(132kV) | MASAURHI(132kV) | MASRAKH(132kV) | Mithapur(132kV) | Mohania(132kV) |
| Motihari(132kV) | affarpur (Ramdayalu)(132 | Nalanda(132kV) | Naugachhia(132kV) | Nawada(132kV) | Pandaul(132kV) |
| Phulparas (132kV) | Purnea(132kV) | RAFIGANJ(132kV) | Rajgir(132kV) | Ramnagar(132kV) | Samastipur(132kV) |
| Siwan(132kV) | Sonebarsa(132kV) | Sultanganj(132kV) | Supaul(132kV) | TEHTA(132kV) | Tekari(132kV) |

| | | D\ | VC | | | |
|--|--|---|---|---|--|--|
| | List of sta | tion having ava | ilability higher th | an 90% | | |
| BOKARO A TPS(400kV) | DURGAPUR TPS(400kV) | MEJIA B TPS(400kV) | RAGHUNATHPUR(400kV) | TISCO(400kV) | BARHI(220kV) | |
| BURNPUR(220kV) CTPS 1(220kV) CTPS 2(22 | | | CTPS B(220kV) | DHANBAD(220kV) | DURGAPUR(220kV) | |
| HOWRAH(220kV) | JAMSHEDPUR(220kV) | KALYANESWARI(220kV) | MEJIA A TPS(220kV) | MOSABANI(220kV) | PATRATU(220kV) | |
| RAMGARH(220kV) | WARIA TPS(220kV) | ASP(132kV) | BAIDA(132kV) | BARDWAN(132kV) | BARJORA(132kV) | |
| BELMURI(132kV) | CHANDIL(132kV) | GOLA(132kV) | HAZARIBAG(132kV) | JAMURIA(132kV) | KALIPAHARI(132kV) | |
| KODARMA(132kV) | KUMARDHUBI(132kV) | MAITHON HPS(132kV) | NORTH KARANPURA(132k) | <pre>/ PANCHET HPS(132kV)</pre> | PARULIA(132kV) | |
| PATHERDIH(132kV) | PURULIA(132kV) | PUTKI(132kV) | RAMGARH(132kV) | RAMKANAL(132kV) | | |
| | List of station hav | <mark>ing availability h</mark> | igher than 10% and | d less than 90% | | |
| | | | | | | |
| | List of s | station having av | ailability less than | 10% | | |
| GIRIDHI(132kV) | KHARAGPUR(132kV) | NIMIAGHAT(132kV) | | | | |
| | | | | | | |
| ΙΗΔΡΚΗΔΝΙΟ | | | | | | |
| | | JNARN | | | | |
| | list of statio | | | w the are 000/ | | |
| | List of statio | n having ava | ilability highe | r than 90% | | |
| Chandil(220kV) | List of statio Patratu(220kV) | n having ava Tenughat(220k | ilability highe | r than 90% Jadugoda(132kV) | | |
| Chandil(220kV) | List of statio Patratu(220kV) | n having ava Tenughat(220k | ilability highe | r than 90% Jadugoda(132kV) | | |
| Chandil(220kV) | List of statio Patratu(220kV) | n having ava Tenughat(220k | ilability highe | r than 90% Jadugoda(132kV) | | |
| Chandil(220kV) List of | List of statio Patratu(220kV) station having | n having ava Tenughat(220k | ilability highe Hatia-I(132kV) igher than 10% | r than 90% Jadugoda(132kV) | <mark>า 90%</mark> | |
| Chandil(220kV) List of Adityapur(132kV) | List of statio Patratu(220kV) station having Chakradharpur(132k | n having ava Tenughat(220k availability h | ilability highe Hatia-I(132kV) igher than 10% kV) Dumka(132kV) | r than 90% Jadugoda(132kV) and less that Golmuri(132kV) | 1 90% Japla(132kV) | |
| Chandil(220kV) List of Adityapur(132kV) Kamdara(132kV) | List of statio Patratu(220kV) station having Chakradharpur(132k Kanke(132kV) | n having ava Tenughat(220k availability h | ilability highe Hatia-I(132kV) igher than 10% kV) Dumka(132kV) Latebar(132kV) | Than 90% Jadugoda(132kV) and less that Golmuri(132kV) | 1 90% Japla(132kV) | |
| Chandil(220kV) List of Adityapur(132kV) Kamdara(132kV) | List of statio Patratu(220kV) station having Chakradharpur(132k Kanke(132kV) | n having ava Tenughat(220k availability h V) Daltonganj(132k Lalmatia(132k) | ilability highe Hatia-I(132kV) igher than 10% kV) Dumka(132kV) V) Latehar(132kV) | and less than Golmuri(132kV) Namkum(132kV) | <mark>1 90%</mark> Japla(132kV) Voamundi(132kV) | |
| Chandil(220kV) List of Adityapur(132kV) Kamdara(132kV) Pakur(132kV) | List of statio Patratu(220kV) station having Chakradharpur(132k Kanke(132kV) | n having ava Tenughat(220k availability h V) Daltonganj(132k Lalmatia(132k) | ilability highe N Hatia-I(132kV) igher than 10% kV) Dumka(132kV) V) Latehar(132kV) | and less than Golmuri(132kV) | 1 90% Japla(132kV) Noamundi(132kV) | |
| Chandil(220kV) List of Adityapur(132kV) Kamdara(132kV) Pakur(132kV) | List of statio Patratu(220kV) station having Chakradharpur(132k Kanke(132kV) | n having ava Tenughat(220k availability h V) Daltonganj(132k Lalmatia(132k) | ilability highe N Hatia-I(132kV) igher than 10% kV) Dumka(132kV) V) Latehar(132kV) vailability less t | and less than Golmuri(132kV) Namkum(132kV) | 1 90% Japla(132kV) Voamundi(132kV) | |
| Chandil(220kV) List of Adityapur(132kV) Kamdara(132kV) Pakur(132kV) Hatia-II(220kV) | List of statio Patratu(220kV) station having Chakradharpur(132k Kanke(132kV) List of stat Ramchandrapur(220k | n having ava Tenughat(220k availability h V) Daltonganj(132k Lalmatia(132kv tion having av | ilability highe ilability highe V) Hatia-I(132kV) igher than 10% kV) Dumka(132kV) V) Latehar(132kV) vailability less t V) Garawah(132kV) | r than 90% Jadugoda(132kV) and less that Golmuri(132kV) Namkum(132kV) han 10% Goilkera(132kV) | <mark>1 90%</mark> Japla(132kV) Noamundi(132kV) Jamtara(132kV) | |

WEST BENGAL

| | | VVLJ | IDLINGAL | | | | |
|---|---|------------------------|-------------------------------|----------------------------|------------------------------|--|--|
| | List of station having availability higher than 90% | | | | | | |
| Arambag(400kV) | Domjur(220kV) | Gokarna 400kv(400kV) | Haldia TPP(400kV) | Howrah(220kV) | Jeerat(400kV) | | |
| Kasba(220kV) | KTPS(400kV) | Lakshmikantapur(220kV) | Midnapur(220kV) | PPSP(400kV) | Satgachia(220kV) | | |
| Subhasgram(220kV) | Durgapur(400kV) | Bakreswar(400kV) | Kharagpur(400kV) | CHANDITALA(400kV) | Asansol(220kV) | | |
| DPL(220kV) | Durgapur(220kV) | Gokarna(220kV) | Rishra(220kV) | NJP(220kV) | BTPS(132kV) | | |
| Liluah(132kV) | Rammam(132kV) | Saltlake(132kV) | Titagarh(132kV) | NBU(132kV) | Ashoknagar(132kV) | | |
| Adisaptagram(132kV) | Borjora(132kV) | Bighati(132kV) | Kursiang(132kV) | NPPSP(400kV) | FOUNDRY PARK(220kV) | | |
| IPCHL(220kV) | JK NAGAR(220kV) | NEWTOWN3(220kV) | SADAIPUR(220kV) | DHARAMPUR(220kV) | Budge Budge(CESC)(220kV) | | |
| Chakmir(CESC)(132kV) | Majherhat(CESC)(132kV) | Southern(CESC)(132kV) | Botanical gurden(CESC)(132kV) | New Coshipur(CESC)(220kV) | Princep street(CESC)(132kV) | | |
| Parklane(CESC)(132kV) | Titagarh(CESC)(132kV) | BT Road(CESC)(132kV) | Jadavpur(CESC)(132kV) | EM Bypass(CESC)(220kV) | Chakmir(CESC)(132kV) | | |
| East Calcutta(CESC)(132kV) | Dum Dum(CESC)(132kV) | Taratala(CESC)(132kV) | BBD Bag(CESC)(132kV) | Belur(CESC)(132kV) | | | |
| | List of statio | n having availabili | ity higher than 10% an | d less than 90% | | | |
| STPS(220kV) | Bishnupur(132kV) | Maldah(132kV) | Tcf-2(132kV) | New Bishnupur(220kV) | | | |
| List of station having availability less than 10% | | | | | | | |
| Haldia New(220kV) | Dalkhola(220kV) | Sagardighi(400kV) | Krishnanagar(220kV) | KLC Bantala(220kV) | Barasat(132kV) | | |
| Bongaon(132kV) | Haldia Old(132kV) | Kolaghat(132kV) | Raigunj(132kV) | Sainthia(132kV) | Birpara(132kV) | | |
| Chalsa(132kV) | Tcf-1(132kV) | Tcf-3(132kV) | Tarakeswar(132kV) | Alipuduar(132kV) | Gangarampur(132kV) | | |
| Joka(132kV) | Kalimpong(66kV) | Hizli(132kV) | TLDP3(220kV) | TLDP4(220kV) | Patuli(CESC)(132kV) | | |
| | | | | | | | |

ODISHA

List of station having availability higher than 90%

| Mendhasal(400kV) | Meramundali(400kV) | JSPLA(400kV) | GMR(400kV) | Jayanagar(220kV) | Balimela HPS(220kV) |
|------------------------|----------------------|-----------------------|---------------------|---------------------------------|----------------------|
| Uper Kolab HPS(220kV) | Theruvalli(220kV) | Indravati HPS(220kV) | Bhanjanagar(220kV) | Narendrapur(220kV) | Chandaka(220kV) |
| Nayagarh(220kV) | Rengali HPS(220kV) | TTPS(220kV) | NALCO(220kV) | Rengali swiching station(220kV) | Joda(220kV) |
| Duburi New(400kV) | Duburi Old(220kV) | Paradeep(220kV) | Bhdrakh(220kV) | Balasore(220kV) | Budhipadar(220kV) |
| IB TPS(220kV) | Bolangir New(220kV) | Tarkera(220kV) | Barkote(220kV) | TATA POWER(220kV) | JSL(220kV) |
| TSIL(220kV) | VEDANTA(220kV) | JSPL(220kV) | MIL(220kV) | OPTCL (Podia)(220kV) | Sunabeda(132kV) |
| Machhkund HPS(132kV) | Rayagada(132kV) | Chhatrapur(132kV) | Aska(132kV) | Bhubaneswar (132kV) | Khurda(132kV) |
| Puri(132kV) | Cuttack(132kV) | Choudwar(132kV) | ICCL(132kV) | Chainpal(132kV) | Rairangpur(132kV) |
| Baripada(132kV) | Jajpur Road(132kV) | Angul(132kV) | Boinda(132kV) | Kendrapara(132kV) | Rourkela(132kV) |
| Burla HPS(132kV) | Chiplima HPS(132kV) | Sambalpur(132kV) | Rajgangapur(132kV) | Bargarh(132kV) | ARYAN(132kV) |
| NBVL(132kV) | EMAMI(132kV) | ARATI(132kV) | AISCL(132kV) | IMFFA(132kV) | MINAKHEE(132kV) |
| OPCL(132kV) | Bolangir Old(132kV) | Bolani(132kV) | Soro(132kV) | Sonepur(132kV) | Anandpur (132kV) |
| ACC, Bargarh(132kV) | Barpalli(132kV) | Digapahandi(132kV) | Jaleswar(132kV) | Chhend(132kV) | Karanjia(132kV) |
| Patnagarh(132kV) | Pattamundai(132kV) | Phulbani(132kV) | Kalarangi(132kV) | | |
| | | | | | |

| List of station having availability higher than 10% and less than 90% | | | | | | | | |
|---|---|---------------|----------------------------|----------------------|----------------------|--|--|--|
| Bidanasi(220kV) | Akhusinga(132kV) | Basta(132kV) | Balugaon(132kV) | Dhenkanal(132kV) | Kamakhyanagar(132kV) | | | |
| SHYAM(132kV) | OCLRJ(132kV) | OCL(132kV) | Kesura(132kV) | Parlakhemundi(132kV) | Sundargarh(132kV) | | | |
| | List of station having availability less than 10% | | | | | | | |
| VISA(220kV) | Kesinga(132kV) | Sijua(132kV) | VEDANTA(LANGIGARH)(132kV) | | | | | |

Annexure-C19

List of the ICT/ATR/TRF belong to ISGS & ISTS transmission licensees

| | | | | Tap | | Voltage (kV) | Present | Nominal | |
|----------------------|---------|----------|--------|-------------|----------|--------------|----------|----------|----------|
| | Voltago | Canacity | No of | nrovided in | No of | change per | Tan | Tan | |
| N 60/0 | voltage | capacity | | | | thanye per | i ap | 1ap | |
| Name of S/S | level | (IVIVA) | ICT | which side | Taps | Тар | position | position | Make |
| Angul | 765/400 | 1500 | 4 | HV | 23 | 4 | 12 | 12 | NA |
| Gaya | 765/400 | 1500 | 3 | HV | 23 | 4 | 12 | 12 | NA |
| Jharsuguda | 765/400 | 1500 | 2 | HV | 23 | 4 | 12 | 12 | NA |
| New Ranchi | 765/400 | 1500 | 2 | HV | 23 | 4 | 12 | 12 | NA |
| New Sasaram | /65/400 | 1500 | 2 | HV | 23 | 4 | 12 | 12 | NA |
| Alipurduar | 400/220 | 315 | 2 | NA | NA | NA | NA | NA | NA |
| Baripada | 400/220 | 315 | 2 | HV | 17 | 5 | 11 | 9 | NA |
| Baripada | 400/220 | 500 | 1 | NA | NA | NA | NA | NA | NA |
| Biharshariff | 400/220 | 315 | 3 | HV | 17 | 5 | 12 | 9 | NA |
| Binaguri | 400/220 | 315 | 2 | HV | 17 | 5 | 10 | 9 | NA |
| Bolangir | 400/220 | 315 | 2 | HV | 17 | 5 | 9B | 9 | NA |
| Chalbasa | 400/220 | 315 | 2 | HV | 17 | 5 | 9B | 9B | NA |
| Darbhanga | 400/220 | 500 | 2 | NA | NA 17 | NA | NA | NA | NA |
| FSIPP | 400/220 | 315 | 1 | HV | 17 | 5 | 10 | 9B | NA |
| Gaya | 400/220 | 315 | 1 | HV | 17 | 5 | 12 | 9 | NA |
| Gaya | 400/220 | 500 | 1 | HV | 17 | 5 | 12 | 9 | NA |
| Indravati | 400/220 | 315 | 1 | HV | 17 | 5 | 9B | 9 | NA |
| Jamsnedpur | 400/220 | 315 | 3 | HV | 17 | 5 | 15 | 9 | NA |
| Jeypore | 400/220 | 315 | 2 | HV | 17 | 5 | 14 | 9 | NA |
| Keonjnar | 400/220 | 315 | 2 | HV | 17 | 5 | 9B | 9B | NA |
| Kisnangunj | 400/220 | 500 | 2 | HV | 17 | 5 | 9B | 9B | NA |
| Iviaithon Maithan | 400/220 | 315 | 1 | HV | 17 | 5 | 9B | 9B | |
| Iviaitnon | 400/220 | 500 | 1 | HV | 17 | 5 | 9B 10 | 9B | NA |
| IVIAIUA | 400/220 | 315 | 2 | HV | 17 | <u>р</u> | 10 | 9 | |
| Muzzaffarnur | 400/220 | 315 | 2 1 | HV | 17 | <u>р</u> | 12 | 9B | |
| Now Durpoo | 400/220 | 500 | ן ר | HV | 17 | 5 | 12 | 9B | |
| New Pullied | 400/220 | 500 | 2 | HV | 17 | 5 | | 9 | |
| Parulia | 400/220 | 215 | 2 | HV | 17 | 5 | 9D 11 | 9D | |
| Patna | 400/220 | 215 | 1 | | 17 | 5 | | 9 0R | |
| Patna | 400/220 | 500 | 1 | HV | 17 | 5 | 7D 0R | 9D 0B | NA NA |
| Panchi | 400/220 | 315 | 2 | HV | 17 | 5 | 9D 9B | 7D 0 | NA |
| Pangno | 400/220 | 315 | 5 | HV | 17 | 5 | 7D 0 | 9 | NA |
| Rengali | 400/220 | 315 | 2 | HV | 17 | 5 | 9 | 9 | NΔ |
| Rourkela | 400/220 | 315 | 2 | HV | 17 | 5 | 10 | 9 | NΔ |
| Sasaram | 400/220 | 315 | 1 | HV | 17 | 5 | 10 | 9 | NΔ |
| Sasaram | 400/220 | 500 | 1 | HV | 17 | 5 | 14 | 9 | NΔ |
| Subhasgram | 400/220 | 315 | 4 | HV | 17 | 5 | 9 | 9 | NA |
| Subhasgram | 400/220 | 500 | 1 | HV | 17 | 5 | 9 | 9 | NΔ |
| TSTPP | 400/220 | 315 | 2 | HV | 17 | 5 | 13 | 9 | NΔ |
| Banka | 400/132 | 200 | 2 | HV | 17 | 5 | 7 | 9 | NA |
| Barh | 400/132 | 200 | 2 | NA | NA | NA | NA | NA | NA |
| KhSTPP | 400/132 | 200 | 2 | HV | 17 | 5 | 10 | 9 | NA |
| Lakhisarai | 400/132 | 200 | 2 | HV | 17 | 5 | 9 | 9 | NA |
| Nabinagar | 400/132 | 200 | 2 | NA | NA | NA | NA | NA | NA |
| Arrah | 220/132 | 100 | 2 | IV | 17 | 1.65 | 9 | 13 | NA |
| Arrah | 220/132 | 160 | 1 | LV | 17 | 1.65 | 9 | 13 | NA |
| Baripada | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| Birpara | 220/132 | 160 | 2 | IV | 17 | 1.65 | 12 | 13 | NA |
| Bolangir | 220/132 | 160 | - 1 | NA | NA | NA | NA | NA | NA |
| Dikchu | 400/132 | 270 | 1 | NA | NA | NA | NA | NA | NA |
| Malda | 220/132 | 160 | 2 | LV | 17 | 1.65 | 10 | 13 | NA |
| Malda | 220/132 | 50 | - 1 | LV | 17 | 1.65 | 10 | 13 | NA |
| Muzzaffarpur | 220/132 | 100 | 1 | NA | NA | NA | NA | NA | NA |
| NJP | 220/132 | 100 | 2 | LV | 17 | 1.65 | 9 | 13 | NA |
| NJP | 220/132 | 160 | 1 | LV | 13 | 1.65 | 7 | 13 | NA |
| Purnea | 220/132 | 160 | 3 | LV | 17 | 1.65 | 9 | 13 | NA |
| Rangpo | 220/132 | 100 | 3 | LV | 17 | 1.65 | NA | 13 | NA |
| Ganatok | 132/66 | 50 | 2 | HV | 17 | 1.65 | 9B | 9 | NA |
| <u>J</u> · · | | - | | | | | | 1 | |

List of the ICT/ATR/TRF belong to BSPHCL

| | | | | Тар | | Voltage (kV) | Present | Nominal | |
|----------------|---------|----------|-------|-------------|-------|--------------|--------------|----------|------|
| | Voltage | Capacity | No of | provided in | No of | change per | Тар | Тар | |
| Name of S/S | level | (MVA) | ICT | which side | Taps | Тар | position | position | Make |
| Begusarai | 220/132 | 100 | 2 | HV | 17 | 1.75 | 4 | 9 | NA |
| Biharshariff | 220/132 | 150 | 3 | HV | 17 | 2.75 | 4 | 5 | NA |
| Bodhgaya | 220/132 | 150 | 4 | HV | 25 | 1.85 | 9 (216.5 kV) | 7 | NA |
| Darbhanga | 220/132 | 100 | 2 | HV | 13 | 2.75 | 10 | 9 | NA |
| Dehri | 220/132 | 100 | 4 | HV | 17 | 2.75 | 5 | 5 | NA |
| Fatuah | 220/132 | 100 | 4 | HV | 17 | 2.75 | 7 | 9 | NA |
| Gopalgunj | 220/132 | 100 | 2 | HV | 13 | 2.75 | 7 | 9 | NA |
| Hazipur | 220/132 | 100 | 3 | HV | 17 | 2.75 | NA | 9 | NA |
| Khagul | 220/132 | 100 | 3 | HV | 17 | 2.75 | 7 | 9 | NA |
| Madhepura | 220/132 | 100 | 2 | NA | NA | NA | NA | NA | NA |
| Madhepura | 220/132 | 160 | 1 | NA | NA | NA | NA | NA | NA |
| MTPS | 220/132 | 100 | 2 | LV | 17 | 1.65 | 1 | 9 | NA |
| MUSHAHRI | 220/132 | 160 | 2 | HV | 17 | 1.65 | 9 | 9 | NA |
| Muzzaffarpur | 220/132 | 100 | 3 | HV | 17 | 2.75 | NA | 9 | NA |
| New Kishangunj | 220/132 | 160 | 2 | HV | 17 | 2.75 | NA | 9 | NA |
| Pusouli | 220/132 | 150 | 2 | HV | 17 | 1.75 | 9 | 9 | NA |
| Samastipur | 220/132 | 160 | 2 | LV | 17 | 1.65 | 1 | 9 | NA |
| Sipara | 220/132 | 150 | 2 | HV | 17 | 1.65 | 9 | 9 | NA |
| Sipara | 220/132 | 160 | 1 | HV | 17 | 1.65 | 9 | 9 | NA |
| Sonenagar | 220/132 | 160 | 2 | HV | 17 | 2.75 | NA | 9 | NA |

List of the ICT/ATR/TRF belong to JUVNL

| | | | | Тар | | Voltage (kV) | Present | Nominal | |
|---------------|---------|----------|-------|-------------|-------|--------------|----------|----------|------|
| | Voltage | Capacity | No of | provided in | No of | change per | Тар | Тар | |
| Name of S/S | level | (MVA) | ICT | which side | Taps | Тар | position | position | Make |
| Chaibasa | 220/132 | 50 | 2 | HV | 17 | 2.75 | 5 | 9 | |
| Chaibasa | 220/132 | 150 | 2 | HV | 13 | 2.75 | 9 | 9 | |
| Chandil | 220/132 | 100 | 4 | HV | 17 | 2.75 | 9 | 5 | |
| Dumka | 220/132 | 150 | 2 | HV | 17 | 2.75 | 7 | 9 | |
| Hatia | 220/132 | 150 | 3 | HV | 17 | 2.75 | 5 | 9 | |
| Lalmatia | 220/132 | 100 | 2 | HV | 17 | 2.75 | 5 | 9 | |
| Patratu | 220/132 | 150 | 2 | HV | 17 | 2.75 | 12 | 9 | |
| Ramchandrapur | 220/132 | 150 | 2 | HV | 19 | 2.75 | 10 | 9 | |
| Ramchandrapur | 220/132 | 150 | 1 | HV | 17 | 2.75 | 5 | 9 | |

List of the ICT/ATR/TRF belong to DVC

| | | | | Тар | | Voltage (kV) | Present | Nominal | |
|--------------|---------|----------|-------|-------------|-------|--------------|----------|----------|------|
| | Voltage | Capacity | No of | provided in | No of | change per | Тар | Тар | |
| Name of S/S | level | (MVA) | ICT | which side | Taps | Тар | position | position | Make |
| Bokaro A | 400/220 | 315 | 2 | NA | NA | NÁ | NA | NA | NA |
| Koderma | 400/220 | 315 | 2 | HV | 17 | 5 | 9B | 9B | NA |
| RTPS | 400/220 | 315 | 2 | NA | NA | NA | NA | NA | NA |
| TISCO | 400/220 | 315 | 2 | HV | 17 | 5 | 9B | 9B | NA |
| Bokaro B | 220/132 | 150 | 2 | HV | 17 | 2.75 | NA | 9 | NA |
| Borojora | 220/132 | 150 | 2 | HV | 17 | 2.75 | 7 | 9 | NA |
| CTPS | 220/132 | 150 | 2 | HV | 17 | 2.75 | NA | 9 | NA |
| CTPS | 220/132 | 100 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Giridih | 220/132 | 150 | 1 | HV | 17 | 2.75 | 9B | 9B | NA |
| Giridih | 220/132 | 160 | 1 | HV | 17 | 2.75 | 9B | 9B | NA |
| Jamshedpur | 220/132 | 150 | 1 | HV | 17 | 2.75 | 3 | 9 | NA |
| Jamshedpur | 220/132 | 160 | 1 | HV | 17 | 2.75 | 3 | 9 | NA |
| Kalyaneswari | 220/132 | 150 | 3 | HV | 17 | 2.75 | 11 | 9 | NA |
| Ramgarh | 220/132 | 150 | 2 | HV | 17 | 2.75 | 10 | 9 | NA |
| Waria | 220/132 | 150 | 2 | HV | 17 | 2.75 | NA | 9 | NA |
| Borojora | 220/33 | 50 | 2 | NA | NA | NA | NA | NA | NA |
| Burnpur | 220/33 | 50 | 2 | NA | NA | NA | NA | NA | NA |
| Durgapur | 220/33 | 80 | 1 | NA | NA | NA | NA | NA | NA |
| Giridih | 220/33 | 80 | 1 | NA | NA | NA | NA | NA | NA |
| Muchipara | 220/33 | 80 | 1 | NA | NA | NA | NA | NA | NA |
| Muchipara | 220/33 | 50 | 2 | NA | NA | NA | NA | NA | NA |

| | | 9.00 0.112 000 | | | | | | | |
|--------------|---------|----------------|-------|-------------|-------|--------------|----------|----------|------|
| | | | | Тар | | Voltage (kV) | Present | Nominal | |
| | Voltage | Capacity | No of | provided in | No of | change per | Тар | Тар | |
| Name of S/S | level | (MVA) | ICT | which side | Taps | Тар | position | position | Make |
| Indravati | 400/220 | 315 | 1 | HV | 17 | 5 | 9B | 9B | NA |
| Mendasal | 400/220 | 315 | 2 | HV | 17 | 5 | 9 | 9 | NA |
| Meramundali | 400/220 | 315 | 2 | HV | 17 | 5 | 10 | 9 | NA |
| New Duburi | 400/220 | 315 | 2 | HV | 17 | 5 | 9 | 9 | NA |
| STERLITE | 400/220 | 315 | 2 | HV | 17 | 5 | 11 | 9 | NA |
| Atri | 220/132 | 160 | 1 | NA | NA | NA | NA | NA | NA |
| Balasore | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Bhanjanagar | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Bidansi | 220/132 | 160 | 1 | LV | 17 | 1.65 | NA | 9 | NA |
| Bidansi | 220/132 | 100 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Budipadar | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Chandaka | 220/132 | 100 | 3 | LV | 17 | 1.65 | NA | 9 | NA |
| Duburi | 220/132 | 100 | 3 | LV | 17 | 1.65 | NA | 9 | NA |
| Jaynagar | 220/132 | 100 | 2 | HV | 17 | 2.75 | NA | 9 | NA |
| Joda | 220/132 | 100 | 3 | LV | 33 | -0.83 | 11 | 17 | NA |
| Katapalli | 220/132 | 160 | 1 | LV | 17 | 1.65 | NA | 9 | NA |
| Katapalli | 220/132 | 100 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Mendasal | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| Meramundali | 220/132 | 100 | 3 | LV | 17 | 1.65 | NA | 9 | NA |
| Narendrapur | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| Narendrapur | 220/132 | 100 | 1 | LV | 17 | 1.65 | NA | 13 | NA |
| Paradeep | 220/132 | 160 | 1 | NA | NA | NA | NA | NA | NA |
| Paradeep | 220/132 | 100 | 1 | NA | NA | NA | NA | NA | NA |
| Puri | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| New Bolangir | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Samungara | 220/132 | NA | NA | HV | 17 | 2.75 | NA | 9 | NA |
| Tarkera | 220/132 | 100 | 4 | LV | 17 | 1.65 | NA | 9 | NA |
| Theruvali | 220/132 | 100 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| TTPS | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| TTPS | 220/132 | 150 | 1 | LV | 33 | -0.83 | NA | 17 | NA |

List of the ICT/ATR/TRF belong to GRIDCO

List of the ICT/ATR/TRF belong to WBPDCL/WBSETCL/WBSEDCL

| | | | | Тар | | Voltage (kV) | Present | Nominal | |
|-----------------|---------|----------|-------|-------------|-------|--------------|----------|----------|------|
| | Voltage | Capacity | No of | provided in | No of | change per | Тар | Тар | |
| Name of S/S | level | (MVA) | ICT | which side | Taps | Тар | position | position | Make |
| Arambag | 400/220 | 315 | 4 | HV | 17 | 5 | 13 | 9 | NA |
| Bakreswar | 400/220 | 315 | 2 | HV | 17 | 5 | 11 | 9 | NA |
| Bidhannagar | 400/220 | 315 | 2 | HV | 17 | 5 | 9B | 9 | NA |
| Gokarna | 400/220 | 315 | 2 | NA | NA | NA | NA | NA | NA |
| Jeerat | 400/220 | 315 | 4 | LV | 17 | 2.88 | 11 | NA | NA |
| Kharagpur | 400/220 | 315 | 3 | HV | 17 | 5 | 7 | 9 | NA |
| KTPP | 400/220 | 315 | 2 | HV | 17 | 5 | 12 | 9 | NA |
| Sagardighi | 400/220 | 315 | 1 | HV | 17 | 5 | NA | 9 | NA |
| Arambag | 220/132 | 160 | 1 | LV | 17 | 1.65 | NA | 9 | NA |
| Arambag | 220/132 | 100 | 1 | LV | 17 | 1.65 | NA | 9 | NA |
| Asansol | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| BBGS | 220/132 | NA | 2 | HV | 16 | 5.55 | 10 | 9 | NA |
| Bantala | 220/132 | 160 | 1 | NA | NA | NA | NA | NA | NA |
| Bidhannagar | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Dalkhola | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Dharma | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Domjur | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| DPL (AREVA) | 220/132 | 160 | 1 | LV | 17 | 1.65 | 9 | 9 | NA |
| DPL (BHEL) | 220/132 | 100 | 1 | LV | 17 | 1.65 | 9 | 9 | NA |
| DPL (China) | 220/132 | 160 | 1 | HV | 19 | 2.75 | 10 | 10 | NA |
| EMSS | 220/132 | 160 | 3 | NA | NA | NA | NA | NA | NA |
| Egra | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| Foundry Park | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| Gokarna | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Howrah | 220/132 | 150 | 3 | LV | 17 | 1.65 | NA | 9 | NA |
| Howrah | 220/132 | 160 | 1 | NA | NA | NA | NA | NA | NA |
| Jeerat | 220/132 | 160 | 3 | LV | 17 | 1.65 | NA | 9 | NA |
| Kasba | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Kasba | 220/132 | 150 | 2 | NA | NA | NA | NA | NA | NA |
| Kharagpur | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| Krishnanagar | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| KTPP | 220/132 | 160 | 1 | LV | 17 | 1.65 | NA | 9 | NA |
| KTPP | 220/132 | 150 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Laxmikantapur | 220/132 | 160 | 3 | LV | 17 | 1.65 | NA | 9 | NA |
| New Bishnupur | 220/132 | 160 | 3 | NA | NA | NA | NA | NA | NA |
| New Haldia | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| N Jalpaiguri | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Rajarhat | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| Rishra | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Santaldih | 220/132 | 100 | 1 | LV | 17 | 1.65 | NA | 9 | NA |
| Santaldih | 220/132 | 130 | 1 | NA | NA | NA | NA | NA | NA |
| Satgachia | 220/132 | 160 | 2 | LV | 17 | 1.65 | NA | 9 | NA |
| Subhasgram | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |
| Vidyasagar Park | 220/132 | 160 | 2 | NA | NA | NA | NA | NA | NA |

List of the GT situated in the Eastern Region

| | | | | Тар | | Voltage (kV) | Present | Nominal | | |
|---------------------------------|--------------------|--------------------|----------|-------------|----------|--------------|--------------------|--------------------|--------|-----------|
| | Voltage | Capacity | | provided in | No of | change per | Tap | Tap | | |
| Name of Constating Unit | lovol | | No of CT | which side | Tanc | Tan | nosition | nosition | Ownor | Mako |
| | 100/14 F | (IVIVA) | | | 10 10 | 100 | | position | | IVIANE |
| | 400/16.5 | 330 | 1 | | 19 | 4.03 | 3 (420 KV) | | | NA |
| | 220/11 | 105 882353 | 1 | HV | 5 | 4.5 | 3 (420 KV) | 4 (220 KV) | Bhutan | NA |
| Nabinagar (250 MW) | NA | NA | 1 | NA | NA | NA | NA | NA | BRBCI | NA |
| Nabinagar (250 MW) | NA | NA | 1 | NA | NA | NA | NA | NA | BRBCL | NA |
| BTPS VI & VII | 139/11 | 147.058824 | 2 | HV | 5 | 3.475 | 2 (142.5 KV) | 3 (139 KV) | BSPHCL | NA |
| MTPS - I & II | 230/11 | 164.705882 | 2 | HV | 6 | 5.75 | NA | 4 (230 KV) | BSPHCL | NA |
| MTPS -III (195 MW) | NA | NA | 1 | NA | NA | NA | NA | NA | BSPHCL | NA |
| BBGS I & II | 132/16.5 | 294.117647 | 2 | LV | 9 | 0.4125 | 6 (16.09 KV) | 5 (16.50 KV) | CESC | NA |
| BBGS III | 235/16.5 | 294.117647 | 1 | HV | 9 | 5.875 | 5 (235 KV) | 5 (235 KV) | CESC | NA |
| Jorethang (48 MW) | NA | NA | 2 | NA | NA | NA | NA | NA | DEPL | NA |
| Bokaro A (500 MW) | NA | NA | 1 | NA | NA | NA | NA | NA | DVC | NA |
| Bokaro B (210 MW) | NA | NA | 3 | NA | NA | NA | NA | NA | DVC | NA |
| CTPS (140 MW) | 132/13.8 | 164.705882 | 2 | HV | 5 | 3.3 | NA | 3 (132 KV) | DVC | NA |
| CTPS B (210 MW) | NA | NA | 2 | NA | NA | NA | NA | NA | DVC | NA |
| DSTPS I & II | 400/21 | 588.235294 | 2 | HV | 9 | 10.5 | 5 (420 KV) | 7 (399 KV) | DVC | NA |
| Koderma I & II | 400/21 | 588.235294 | 2 | HV | 9 | 10.5 | 5 (420 KV) | 7 (399 KV) | DVC | NA |
| Mejia I - IV | 220/15.75 | 247.058824 | 4 | HV | 5 | 5.5 | NA | 3 (220 KV) | DVC | NA |
| | 220/16.5 | 294.11/64/ | 2 | HV | 5 | 0 10 F | | | DVC | NA |
| | 400/21 | 588.235294 | 2 | HV | 9 | 10.5 | 4 (430.5) | 7 (399 KV) | DVC | NA |
| Waria IV | 220/16 | 204 117647 | 2 1 | | ПА Б | 5.5 | NA NA | 2 (220 KV) | DVC | NA NA |
| | 220/10 | 274.117047 NA | 2 | NA NA | J NA | 5.5 NA | NA | 3 (220 KV) | GIPI | NA |
| GMR (350 MW) | NA | NA | 2 | NA | NA | NA | NA | NA | GKEL | NA |
| Haldia (300 MW) | NA | NA | 2 | NA | NA | NA | NA | NA | HFI | NA |
| Ind Bharat (350 MW) | NA | NA | 1 | NA | NA | NA | NA | NA | IBEUL | NA |
| Ind Bharat (350 MW) | NA | NA | 1 | NA | NA | NA | NA | NA | IBEUL | NA |
| IBTPS I & II | 220/15.75 | 294.117647 | 2 | HV | 5 | 5.5 | NA | 3 (220 KV) | IBTPS | NA |
| JITPL (600 MW) | NA | NA | 2 | NA | NA | NA | NA | NA | JITPL | NA |
| SUBARNAREKHA | 132/11 | 94.1176471 | 2 | HV | 5 | 3.3 | 2 (138.6 KV) | 4 (132 KV) | JUVNL | NA |
| Maithon RB (525 MW) | NA | NA | 2 | NA | NA | NA | NA | NA | MPL | NA |
| NALCO I - VIII | 220/10.5 | 141.176471 | 8 | HV | 5 | 5.875 | NA | NA | NALCO | NA |
| Teesta V (170 MW) | 400/13.8 | 70 | 9 | HV | 5 | 10 | 3 (400 kV) | 3 (400 kV) | NHPC | ALSTOM |
| Barh IV & V (660 MW) | NA | NA 0.47.05000.4 | 2 | NA | NA | NA 10 F | NA 2 (422 K) (| NA F (200 K) () | NIPC | NA |
| FSTPP -I | 400/15.75 | 247.058824 | 1 | HV | 5 | 10.5 | 3 (420 KV) | 5 (399 KV) | NIPC | NA |
| | 400/15.75 | 247.058824 | 2 | HV | 13 | 5.25 E 2E | 0 (414.8 KV) | 9(399 KV) | NTPC | NA NA |
| | 400/21 | 000.230294 | 3 | | | 0.20 NA | 7 (409.3 KV) | 9(399 KV) | NTPC | NA NA |
| KISTPP I, II, III & IV (210 WW) | | NA NA | 4 | | | | | | NTPC | NA |
| | 400/21 | 588 | 2 | HV | 13 | 5 25 | 8 (404 3 KV) | 9(399 K\/) | NTPC | NΔ |
| Balimela I - VI | 132/11 | 70 5882353 | 6 | HV | 5 | 3 615 | 0 (404.5 KV) NA | NA | OHPC | NA |
| Balimela VII - VIII | 132/11 | 88.2352941 | 2 | HV | 7 | 3.615 | NA | NA | OHPC | NA |
| Rengali I - V | 220/11 | 58.8235294 | 5 | HV | 5 | 5 | NA | NA | OHPC | NA |
| U Indravati (150 MW) | NA | NA | 4 | NA | NA | NA | NA | NA | OHPC | NA |
| U Kolab I - IV | 220/11 | 94.1176471 | 4 | HV | 6 | 6.25 | NA | NA | OHPC | NA |
| TTPS I - IV | 132/13.8 | 70.5882353 | 4 | HV | 6 | 3.2 | NA | NA | OPGC | NA |
| TTPS V - VI | 132/11 | 129.411765 | 2 | HV | 9 | 6 | NA | NA | OPGC | NA |
| SEL | 242.4/22 | 750 | 4 | HV | 5 | 5.45 | 3 (242.45) | 3 (242.45) | SEL | NA |
| Dikchu (48 MW) | NA | NA | 2 | NA | NA | NA | NA | NA | SKPPPL | NA |
| Teesta III (200 MW) | NA | NA | 6 | NA | NA | NA | NA | NA | TUL | NA |
| TENUGHAT | 220/15.75 | 294.117647 | 2 | HV | 9 | 5.5 | 1 (231 KV) | 3 (220 KV) | TVNL | NA |
| BKTPS | 420/15.75 | 247.058824 | 5 | HV | 5 | 10.5 | 3 (420 KV) | NA | WBPDCL | NA |
| BIPS I, II & IV | 132/13.2 | 11/.64/059 | 3 | HV | / | 3.3 | 2 (135.3 KV) | 3 (132 KV) | WBPDCL | NA |
| RILS A | 138/15./5 | 2/6.4/0588 | | HV | 3 | 3.45 | 3 (134.55) | 2 (138 KV) | WBPDC | INA NA |
| | 132/10.5 | 100 | 2 | HV | IX F | 1.88 | 0 (135.76) | 10 (132 KV) | WBDDC | INA NA |
| | 235/11 | 125 | 1 | | 5 5 | 5.8/ 5.07 | 3(235 KV) | 3(233 KV) | | |
| | 220/20 220/16 5 | 370 | 1 | | 5 | 5.07 | 3(235 KV) | NA | WRPDCL | NA NA |
| | 220/10.3 | 247 058824 | 2 | HV | 5 | 5.07 | 3 (230 KV) | NΔ | WBPDCL | NΔ |
| KTPS IV VI | 420/15 75 | 247.058824 | 2 | HV | 5 | 10.5 | 4 (409 5 KV) | 3 (420 KV) | WBPDCI | NA |
| KTPS V | 420/15.75 | 247.058824 | - 1 | HV | 5 | 10.5 | 5 (399 KV) | 3 (420 KV) | WBPDCI | NA |
| Sagardighi I & II | 400/20 | 352.941176 | 2 | HV | 5 | 10 | NA | 3 (400 KV) | WBPDCL | NA |
| STPS | 220/13.8 | 164.705882 | 4 | HV | 5 | 5.5 | NA | 3 (220 KV) | WBPDCL | NA |
| STPS V & VI | 220/16.5 | 294.117647 | 2 | HV | 5 | 5.875 | 4 (229.13) | NA | WBPDCL | NA |

Checklist for Submission of new transmission elements for updation in Protection Database

NAME OF ORGANISATION: FOR THE MONTH OF:

FOR THE MONTH O

SUBSTATION DETAIL:

| SI No | DETAILS OF ELEMENTS | DATA TYPE | Status of Submission (Y/N) | Remarks |
|-------|---------------------|---|----------------------------------|---------|
| 1 | TRANSMISSION LINE | LINE LENGTH, CONDUCTOR TYPE, VOLTAGE GRADE | | |
| 2 | POWER TRANSFORMER | NAMEPLATE DETAILS | | |
| 3 | GENERATOR | TECHNICAL PARAMETERS | | |
| 4 | CURRENT TRANSFORMER | NAMEPLATE DETAILS | | |
| 5 | VOLTAGE TRANSFORMER | NAMEPLATE DETAILS | | |
| 6 | RELAY DATA | MAKE, MODEL and FEEDER NAME | | |
| 7 | RELAY SETTINGS | NUMERICAL RELAYS: CSV or XML file extracted from Relay ELECTROMECHANICAL RELAYS: SNAPSHOT of RELAY | | |
| 8 | REACTOR | NAMEPLATE DETAILS | | |
| 9 | CAPACITOR | NAMEPLATE DETAILS | | |
| 9 | UPDATED SLD | | | |

SIGNATURE: NAME OF REPRESENTATIVE: DESIGNATION: CONTACT: E-MAIL ID:



JINDAL INDIA THERMAL POWER LIMITED

VILL/P.O : DERANG, TEH. : KANIHA, DIST. : ANGUL, ODISHA, PIN-759117 Phone : +91 9583040700/701/702/703

Date: 05.02.2018

To, **The Member Secretary,** ERPC, Kolkata.

Kind attention: Mr. P. Mukhopadhyay

Subject: Energy meter time drift between JITPL power plant and PGCIL, 400 KV Phoolpada receiving station

Dear Sir,

With reference to attached emails we wish to inform that there was time drift between SEM energy meters of 400 KV transmission lines 1 and 2 emanating from 2 X 600 MW JITPL Derang power station to PGCIL Phoolpada receiving station. The matter was taken up with PGCIL for time synchronization of these energy meters. Subsequently PGCIL suggested us to adjust time drift as per their laid down procedure. Time drift adjustment activity was started in check meters at JITPL end on 09 July 2016. As per OEM of SEM meters M/S L&T time drift is adjustable at rate one minute per week.

On 23.07.2016 when activity of time drift was initiated, both the check meters failed. The same was intimated to PGCIL and ERLDC on 23rd July 2016. ERLDC / PGCIL suggested shifting SEM meters of GT 1 and GT 2 to line 1 and line 2 respectively at JITPL end due to non availability of SEM meter at PGCIL stock as per verbal feedback. Hence on 26th July 2016 these meters were shifted as suggested by ERLDC.

Since then both the check meters of GT 1 and GT2 are not available at JITPL end. As well as activity of adjusting time drift is also on HOLD as per PGCIL instruction. Due to time drift we are not able to maintain the load schedule. Still PGCIL is not responding on the same issue.

Kindly advise PGCIL to arrange the replacement of failed SEM meters and initiate adjustment of time drift between JITPL and PGCIL Phoolpada receiving station.

Thanking you,

he

Yours faithfully, B.K. Pandey, Plant Head, JITPL

PMU Installation and commissioning status of ER as on 12.01.2018

| S No | Pegion | State | Sub-Station | Owner/ | S/S tune | DMII | | PMU Delivery | Cable Delivery | Fraction | Cable | CT/PT/DI | Commissio | Integration | SAT | Bemarks | |
|-------|--------|-------------|-------------------|-----------|----------|------|-----|-----------------|-------------------|-------------------|-------------------|----------------|-------------------|-------------|---------|--|--|
| 3.140 | Region | State | Sub-Station | Utility | 3/3 type | FINO | QTY | status | status | LIECTON | laying | termination | ning | integration | JAI | Relial KS | |
| | | | 78 | | | 296 | 175 | 74 | 75 | 66 | 65 | 64 | 64 | 43 | 60 | | |
| 1 | ER-II | West Bengal | Arambagh | WBSETCL | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | | |
| 2 | ER-II | West Bengal | BAKRESHWAR TPS | WBSETCL | CR | 4 | 1 | Yes | Yes | done | done | done | done | done | done | | |
| 3 | ER-II | West Bengal | Bidhannagar | WBSETCL | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | | |
| 4 | ER-II | West Bengal | JEERAT | WBSETCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | pending | | |
| | | | | | | | | | | | | | | | - | SAT pending as customer didn't agree to witness SAT. | |
| 57 | ER-II | West Bengal | Alipurduar | Powergrid | CR | 6 | 7 | Yes | Yes | partially done | partially done | partially done | partially done | Pending | pending | Work started on 22.12.2016. 4 PMU panels and network panel installed. Rest 2 PMU panels could not be erected because location not finalised. Cable laying and termination at PMU panel completed for 6 feeders. CT/PT interfacing pending due to unavailability of shutdown. PGCIL is asking to take DI points from field, which is not in scope. Work is held up. Team demobilised. | |
| 6 | ER-II | West Bengal | KASBA | WBSETCL | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | | |
| 7 | ER-II | DVC | DSTPS | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. | |
| 67 | ER-I | BIHAR | BANKA | Powergrid | Kiosk | 4 | 5 | Yes | Yes | done | done | done | done | Pending | pending | SAT pending. | |
| 9 | ER-II | DVC | MEJIA-B | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | Integrated on 07.12.2016 | |
| 45 | ER-II | Jharkhand | Bokaro TPS | DVC | CR | 1 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. | |
| 11 | ER-II | DVC | Raghunathpur TPS | DVC | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | | |
| 33 | Odisha | Orissa | Bolangir | Powergrid | CR+Kiosk | 2 | 3 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. | |
| 13 | ER-II | DVC | Bokaro | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 24.06.2016 | |
| 14 | ER-II | DVC | CTPS(Chanderpura) | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. | |
| 78 | ER-I | Bihar | Barauni PP | Bihar | CR | 0 | 0 | No | No | N/A | N/A | N/A | N/A | N/A | N/A | Substation deleted. | |
| 16 | Odisha | Orissa | MENDHASAL | OPTCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | | |
| 17 | Odisha | Orissa | MERAMANDALI | OPTCL | CR | 6 | 2 | Yes | Yes | done | done | done | done | done | done | | |
| 18 | Odisha | Orissa | RENGALI | OPTCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | Integrated on 22.06.2017 | |
| 37 | Odisha | Orissa | GMR | GMR | Kiosk | 3 | 4 | Yes | Yes | done | done | done | done | Pending | pending | SDH Panel not commisioned, powergrid supervision required for SAT activity | |
| 20 | Odisha | Orissa | BALIMELA(H) | OPTCL | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | | |
| 21 | ER-II | West Bengal | Durgapur | Powergrid | CR | 5 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 30.05.2016. | |
| 15 | Odisha | Orissa | Budhipadar | OPTCL | CR | 10 | 0 | No | Yes | pending | pending | pending | pending | pending | pending | Manufactured, waiting for FAT. Will be dispatched after FAT. | |
| 23 | Odisha | Orissa | Indrawati | Powergrid | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. | |
| 24 | Odisha | Orissa | Indrawati HPS | OPTCL | CR | 1 | 1 | Yes | Yes | done | done | done | done | done | done | Team deployed in substation. Permission for panel | |
| | | | | | | | | | | | | | | | | installation & cable laying given but no work permission in existing control panel is given. Team was idle for more than. 10 days. | |
| 25 | Odisha | Orissa | JEYPORE | Powergrid | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. | |
| 26 | ER-II | West Bengal | MAITHON | Powergrid | CR | 7 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 21.06.2016. | |
| 27 | ER-II | West Bengal | MALDA | Powergrid | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 24.06.2016 | |
| 28 | Odisha | Orissa | Rengali | Powergrid | Kiosk | 2 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 04.05.2016 | |
| 29 | Odisha | Orissa | ROURKELA | Powergrid | Kiosk | 5 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 21.04.2016 | |
| 30 | ER-II | West Bengal | Binaguri | Powergrid | CR | 7 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 28.07.2016 | |

PMU Installation and commissioning status of ER as on 12.01.2018

| | | . | | Owner/ | | | TOTAL | PMU | Cable | | Cable | CT/PT/DI | Commissio | | | |
|------|--------|-------------|-----------------------|------------|----------|-----|-------|----------|----------|----------|---------|-------------|-----------|-------------|---------|--|
| S.No | Region | State | Sub-Station | Utility | S/S type | РМО | 0TY | Delivery | Delivery | Erection | laying | termination | ning | Integration | SAT | Remarks |
| 31 | ER-II | West Bengal | SUBHASHGRAM | Powergrid | Kiosk | 2 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 22.06.2016 |
| 32 | Odisha | Orissa | Baripada | Powergrid | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 30.01.2017. |
| 75 | ER-I | Jharkhand | Jharkhand Pool (Chan | Powergrid | Kiosk | 4 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU |
| | | | , | 0 | | | | | | | | | | Ŭ | | panel and SDH is more than 100 mts. |
| 34 | Odisha | Orissa | ANGUL | Powergrid | Kiosk | 10 | 11 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 24.03.2017. |
| 35 | Odisha | Orissa | Keonjhar | Powergrid | CR | 2 | 3 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 18.01.2017. |
| 36 | Odisha | Orissa | Jharsuguda | Powergrid | Kiosk | 8 | 9 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 29.07.2016 |
| 74 | ER-I | Bihar | Kishanganj (karandegl | Powergrid | CR | 4 | 1 | Yes | Yes | done | done | done | done | Pending | done | S/S couldn't be integrated because distance between PMU |
| | | | | - | | | | | | | | | | _ | | panel and SDH is more than 100 mts. |
| 8 | ER-II | DVC | Kodarma TPS | DVC | CR | 3 | 1 | Yes | Yes | done | done | done | done | Pending | done | SDH panel does not exist. |
| 39 | ER-II | West Bengal | Baharampur | Powergrid | CR | 2 | 3 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 10.05.2016 |
| 40 | ER-II | West Bengal | Birpara | Powergrid | CR | 4 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 15.07.2016. |
| 41 | ER-II | DVC | CTPS B | DVC | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | mom/sat signature pending from powergrid end. |
| 42 | ER-II | DVC | KALYANESWARI | DVC | CR | 4 | 1 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 02.01.2017. |
| 43 | ER-II | DVC | PARULIA | DVC | CR | 5 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 21.02.2017. |
| 44 | ER-II | West Bengal | Purulia PSP | WBSETCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 66 | ER-I | BIHAR | LakhiSarai | Powergrid | Kiosk | 4 | 5 | Yes | Yes | done | done | done | done | Pending | done | SAT completed. Integration planed |
| 46 | ER-II | West Bengal | Durgapur TPS | DVC | CR | 3 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 73 | ER-I | Jharkhand | Daltonganj | Powergrid | Kiosk | 2 | 3 | Yes | Yes | N/A | N/A | N/A | N/A | N/A | N/A | Site on-hold as Substation is under construction. |
| 22 | ER-II | West Bengal | FARRAKA | NTPC | CR | 5 | 2 | Yes | Yes | done | done | done | done | pending | done | S/S couldn't be integrated because distance between PMU |
| | | | | | | | | | | | | | | | | panel and SDH is more than 100 mtrs. |
| 54 | Odisha | Orissa | Ind barath | Ind barath | Kiosk | 1 | 1 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |
| 10 | ER-II | DVC | Maithon RB TPS | DVC | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | |
| | | | | | | | | | | | | | | | | Work started on 04.07.2016. Panel shifted. Team |
| | | | | | | | | | | | | | | | | demobilised due to access issue and panel location issue. |
| | | | | | | | | | | | | | | | | Team deputed again 18th August, I&C done, integration |
| | | | | | | | | | | | | | | | | pending due to communication break with control center. |
| 51 | Odisha | Orissa | Jindal | JITPL | CR | 2 | 1 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |
| 5 | ER-II | West Bengal | Kolaghat TPS | WBSETCL | CR | 4 | 1 | Yes | Yes | done | done | done | done | done | done | |
| 52 | Odisha | Orissa | Monnet | Monnet | CR | 1 | 1 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |
| 55 | ER-II | Sikkim | New Melli | Powergrid | CR | 0 | 0 | No | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Substation deleted. |
| 76 | ER-I | Jharkhand | Patratu | Jharkhand | CR | 3 | 1 | Yes | Yes | N/A | N/A | N/A | N/A | N/A | N/A | Permission awaited. |
| 53 | Odisha | Orissa | Strelite | Strelite | CR | 3 | 1 | Yes | Yes | done | done | done | done | pending | done | SDH not commisioned |
| 48 | Odisha | Orissa | TALCHER | NTPC | CR | 5 | 2 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |
| 58 | ER-II | West Bengal | Rajarhat | Powergrid | CR | 2 | 1 | Yes | Yes | done | pending | pending | pending | Pending | pending | Site on-hold. Work withheld due to localite agitation issue. |
| 59 | ER-I | Jharkhand | JAMSHEDPUR | Powergrid | CR | 6 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 14.02.2017 |
| 60 | ER-I | BIHAR | Kahalgaon(KHSTPP) | NTPC | CR | 6 | 2 | Yes | Yes | done | done | pending | pending | Pending | pending | Work on-hold. NTPC asked to use Armoured cable. Out of |
| | | | | | | | | | | | | | | | | scope. Team idemobilized from site. Site assumed as |
| | | | | | | | | | | | | | | | | closed as per PRM in Kolkatta. |
| 61 | ER-I | BIHAR | Purnea | Powergrid | CR | 6 | 2 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 13.04.2017 |

PMU Installation and commissioning status of ER as on 12.01.2018

| S.No | Region | State | Sub-Station | Owner/ Utility | S/S type | PMU | TOTAL PANEL | PMU Delivery | Cable Delivery | Erection | Cable laying | CT/PT/DI termination | Commissio ning | Integration | SAT | Remarks |
|------|--------|-------------------|----------------------|-------------------|------------|-----|----------------|-----------------|-------------------|----------|-----------------|-------------------------|-------------------|-------------|---------|---|
| 62 | ED I | DILLAD | | Doworgrid | Kieck | C | 7 | status | status | dana | dana | dana | dana | dana | dana | DMIL integrated on 11 04 2017 |
| 62 | ER-I | Ibarkband | | Powergrid | Kiosk | 12 | 12 | Vec | Vec | done | done | done | done | done | done | PNO integrated on 11.04.2017 |
| 64 | ER-I | | | Powergrid | CRUKieck | 12 | 15 | Vec | Vec | done | done | done | done | done | done | |
| 65 | ER-I | | | NTDC | CRTRIUSK | 9 | 1 | Voc | Voc | dono | dono | done | dono | Donding | dono | Communication Link not available |
| 12 | | DVC | | | CR | 4 | 2 | Vec | Vec | dono | done | done | done | Donding | dono | 5/5 couldn't be integrated because distance between PMU |
| 12 | EK-II | DVC | IVIEJIA | DVC | CK | Э | 2 | res | Tes | uone | uone | uone | done | Pending | uone | s/s couldn't be integrated because distance between Pivio |
| 20 | | Cilding | DANCDO | Douvonarid | CD | 4 | 1 | Vee | Vee | dana | dana | dana | dana | Danding | dana | C/C couldn't be integrated because distance between DMU |
| 38 | EK-II | SIKKIM | RANGPO | Powergrid | CK | 4 | | res | res | done | aone | done | aone | Pending | aone | 5/5 couldn't be integrated because distance between PNIO |
| | 50.1 | the end de end of | Chailean | David | 1/1 a al i | | | | N | | 4 | dawa | | d a const | 4 | panel and SDH is more than 100 mitrs. |
| 68 | EK-I | Jnarknand | Chalbasa | Powergrid | KIOSK | 4 | 5 | res | Yes | aone | done | done | aone | aone | aone | |
| | | | | | | | | | - | | | | - | | | |
| 69 | ER-I | BIHAR | 765kv Gaya | Powergrid | Kiosk | 11 | 12 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 24.02.2017 |
| 70 | ER-I | Jharkhand | 765/400kV Ranchi (N) | Powergrid | Kiosk | 8 | 9 | Yes | Yes | done | done | done | done | done | done | PMU integrated on 24.02.2017 |
| 71 | ER-I | Bihar | Biharshariff | Powergrid | CR | 9 | 3 | Yes | Yes | done | done | done | done | done | done | |
| 72 | ER-I | Bihar | MUZAFFAPUR | Powergrid | CR | 5 | 2 | Yes | Yes | done | done | done | done | done | done | |
| 49 | ER-II | Sikkim | TEESTA | NHPC | CR | 1 | 1 | Yes | Yes | done | done | done | done | done | pending | SAT pending due to no supervision |
| 77 | ER-I | Jharkhand | Tenughat | Jharkhand | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | SDH panel not commisioned |
| 19 | Odisha | Orissa | U.KOLAB | OPTCL | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication Link not available. |
| 56 | ER-II | Sikkim | TT Pool | Powergrid | CR | 0 | 0 | No | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Substation deleted. |
| 50 | Odisha | Orissa | Uttara | Powergrid | CR | 2 | 1 | Yes | Yes | done | done | done | done | Pending | done | Communication link from s/s to ERLDC not available. |
| 47 | Odisha | Orissa | TTPS(Talcher) | OPTCL | CR | 3 | 1 | Yes | Yes | pending | pending | pending | pending | pending | pending | Permission awaited |

ER PMU site activity Summary:

| | | | As per approve | d 800 | Sun | nlind | Installed | | Commi | ssioned | Integrated to ERLDC/ | |
|--------|--------|-----------|--------------------|------------|-----|-------|-----------|--------|-------|---------|----------------------|------|
| SI. No | Region | Utility | As per approve | u boq | Sup | plieu | 1115 | talleu | Comm | ssioneu | 9 | SLDC |
| | _ | _ | No. of Substations | No. of PMU | S/S | PMU | S/S | PMU | S/S | PMU | S/S | PMU |
| 1 | ER-I | Powergrid | 15 | 94 | 15 | 94 | 14 | 92 | 14 | 92 | 10 | 76 |
| 2 | ER-I | NTPC | 2 | 10 | 2 | 10 | 2 | 10 | 1 | 4 | 0 | 0 |
| 3 | ER-I | Jharkhand | 2 | 5 | 2 | 5 | 1 | 2 | 1 | 2 | 0 | 0 |
| 4 | ER-I | Bihar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ER-I | Total | 19 | 109 | 19 | 109 | 17 | 104 | 16 | 98 | 10 | 76 |
| | | | | | | | | | | | | |
| 1 | ER-II | Powergrid | 10 | 41 | 10 | 42 | 9 | 35 | 8 | 33 | 7 | 29 |
| | ER-II | NHPC | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | ER-II | NTPC | 1 | 5 | 1 | 5 | 1 | 5 | 1 | 5 | 0 | 0 |
| 3 | ER-II | DVC | 13 | 37 | 13 | 37 | 13 | 37 | 13 | 37 | 7 | 22 |
| 4 | ER-II | WBSETCL | 7 | 21 | 7 | 21 | 7 | 21 | 7 | 21 | 7 | 21 |
| | ER-II | Total | 32 | 105 | 32 | 106 | 31 | 99 | 30 | 97 | 22 | 73 |
| | | | | | | | | | | | | |
| 1 | Odisha | Powergrid | 10 | 38 | 10 | 38 | 10 | 38 | 10 | 38 | 6 | 30 |
| 2 | Odisha | OPTCL | 8 | 29 | 7 | 19 | 6 | 16 | 6 | 16 | 5 | 14 |
| 3 | Odisha | NTPC | 1 | 5 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Odisha | IPP | 5 | 10 | 5 | 10 | 2 | 6 | 2 | 6 | 0 | 0 |
| | Odisha | Total | 24 | 82 | 23 | 72 | 18 | 60 | 18 | 60 | 11 | 44 |
| | | | | | | | | | | | | |
| | ER | Total | 75 | 296 | 74 | 287 | 66 | 263 | 64 | 255 | 43 | 193 |

Annexure-D.1

Anticipated Power Supply Position for the month of Mar-18

| si | | PARTICULARS | PEAK DEMAND | ENERGY |
|----------|------------|---|-------------|--------|
| 31 | | | MW | MU |
| 1 | | BIHAR | | |
| | i) | ΝΕΤ ΜΑΧ DEMAND | 4250 | 2300 |
| | | | 4230 | 2300 |
| | 11) | INET POWER AVAILABILITY- Own Source (Including bilateral) | 1160 | 162 |
| | | - Central Sector | 2300 | 1597 |
| | iii) | SURPLUS(+)/DEFICIT(-) | -790 | -542 |
| | | | | |
| 2 | | | | |
| 2 | | | 1010 | 212 |
| | 1) | NET MAX DEMAND | 1210 | 810 |
| | ii) | NET POWER AVAILABILITY- Own Source (including bilateral) | 435 | 266 |
| | | - Central Sector | 700 | 312 |
| | iii) | SURPLUS(+)/DEFICIT(-) | -75 | -232 |
| | , | | | |
| | | B V0 | | |
| 3 | | DVC | | |
| | i) | NET MAX DEMAND (OWN) | 2850 | 1734 |
| | ii) | NET POWER AVAILABILITY- Own Source | 5000 | 2718 |
| | , | - Central Sector | 240 | 321 |
| | | | 240 | 321 |
| | | Long term Bi-lateral (Export) | 1500 | 967 |
| | iii) | SURPLUS(+)/DEFICIT(-) | 890 | 337 |
| | | | | |
| 4 | | ORISSA | | |
| | i) | | 4100 | 2402 |
| | <i>i</i>) | | 4100 | 2492 |
| | ii) | NET POWER AVAILABILITY- Own Source | 2800 | 1820 |
| | | - Central Sector | 1183 | 705 |
| | (iii) | SURPLUS(+)/DEFICIT(-) | -117 | 33 |
| | , | | , | |
| _ | | | | |
| 5 | | WEST BENGAL | | |
| 5.1 | | WBSEDCL | | |
| | i) | NET MAX DEMAND (OWN) | 6460 | 3573 |
| | | | 0 | 0 |
| | 11) | CESC'S DRAWAL | 0 | 0 |
| | iii) | TOTAL WBSEDCL'S DEMAND | 6460 | 3573 |
| | iv) | NET POWER AVAILABILITY- Own Source | 3613 | 2149 |
| | , | - Import from DPI | 170 | 0 |
| | | | 170 | 1007 |
| | | - Central Sector | 3157 | 1397 |
| | v) | SURPLUS(+)/DEFICIT(-) | 480 | -27 |
| | vi) | EXPORT (TO B'DESH & SIKKIM) | 5 | 4 |
| | | | - | |
| 5.2 | | DDI | | |
| 5.2 | | DPL | | |
| | i) | NET MAX DEMAND | 260 | 195 |
| | ii) | NET POWER AVAILABILITY | 430 | 189 |
| | , iii) | | 170 | -6 |
| | , | 30Ki E03(+)/ DEI 1011(-) | 170 | -0 |
| | | | | |
| 5.3 | | CESC | | |
| | i) | NET MAX DEMAND | 1840 | 958 |
| | ii) | NET POWER AVAILABILITY - OWN SOURCE | 765 | 486 |
| | , | | 540 | 220 |
| | | | 340 | 337 |
| | | FKUNI UPL/PUBL | 45 | U |
| | | Import Requirement | 490 | 133 |
| | iii) | TOTAL AVAILABILITY | 1840 | 958 |
| | 10 | SURPLUS(+)/DEFICIT(-) | 0 | 0 |
| | 17) | | U | U |
| | | | | |
| 6 | | WEST BENGAL (WBSEDCL+DPL+CESC) | | |
| | | (excluding DVC's supply to WBSEDCL's command area) | | |
| | | | | |
| | i) | NET MAX DEMAND | 8560 | 4726 |
| | 17 | | 4000 | 2024 |
| | 11) | IVET FOWER AVAILADILITE OWN SOURCE | 4008 | 2024 |
| | | - Central Sector+Others | 4232 | 1736 |
| | iii) | SURPLUS(+)/DEFICIT(-) | 480 | -166 |
| | | | | |
| 7 | | зіккім | | |
| <i>'</i> | i) | | 00 | 20 |
| | I) | INE I IVIAX DEIVIAIND | 90 | 38 |
| | ii) | NET POWER AVAILABILITY- Own Source | 5 | 3 |
| | | - Central Sector+Others | 122 | 64 |
| | (iii) | SURPLUS(+)/DEFICIT(-) | 37 | 29 |
| | , | | 37 | -/ |
| | | | | |
| 8 | | LASIEKN REGIUN | | |
| | | At 1.03 AS DIVERSITY FACTOR | | |
| | i) | NET MAX DEMAND | 20447 | 12100 |
| | ., | Long form Ri lateral by DVC | 1500 | 047 |
| | | Long term bi-lateral by DVC | 1500 | 407 |
| | | EXPORT BY WBSEDCL | 5 | 4 |
| | | | | |
| | ii) | NET TOTAL POWER AVAILABILITY OF ER | 22985 | 12526 |
| | , | | | |
| | | | 1000 | |
| | (11) | PEAK SURPLUS(+)/DEFICIT(-) OF ER | 1033 | -545 |
| | | (ii)-(i) | | |

Annexure- D.2

| Proposed Maintenance Schedule of Thermal Generating Units of ER during March, 2018 | | | | | | | | | | |
|--|---------------------------|--|--|--|--|--|--|--|--|--|
| (as fi | nalised in LGBR meeting) | | | | | | | | | |
| | | | | | | | | | | |
| | Doriod No. of | | | | | | | | | |

| System | Station | I Init | Size (MW) | Per | 100 | INO. 01 | Descon |
|--------|---------|--------|---------------|----------|----------|---------|--|
| System | Station | UIIIt | Size (IVI VV) | From | То | Days | Keason |
| DVC | MTDS | | | | | | AOH (Boiler), Shutdown would be deferred |
| DVC | MILL? | 5 | 210 | 05.03.18 | 25.03.18 | 21 | to March 2018 |

EASTERN REGIONAL LOAD DESPATCH CENTRE KOLKATA

| | ANSMISSION ELEMENTS OUTAGE APPROVED IN 142TH OCC MEETING OF ERPC | | | | | | | | | | | |
|---|---|---|--|---|--|---|--|--|--|--|--|--|
| SL. No | NAME OF THE ELEMENTS | DATE | TIME | DATE | TIME | REMARKS | S.D availed BY | Reason | SUBJECT TO CONSENT FROM AGENCY | | | |
| 1 | 401 (RNC-MTN-I MAIN BAY) BAY at Ranchi | 26/02/18 | 10:00 | 28/02/18 | 17:00 | OCB | POWERGRID ER-1 | OVER HAULING of CB & AMP | | | | |
| 2 | 402 (TIE OF MTN-1 & ICT-I) at Ranchi | 01/03/18 | 10:00 | 04/03/18 | 17:00 | OCB | POWERGRID ER-1 | OVER HAULING of CB & AMP | | | | |
| 3 | 404 (RNC-RGP-I MAIN BAY) BAY at Ranchi | 05/03/18 | 10:00 | 07/03/18 | 17:00 | OCB | POWERGRID ER-1 | OVER HAULING of CB & AMP | | | | |
| 4 | 405 (TE OF RGP-1 & ICT-II) at Ranchi 418 (80MVAR B/R Main Bay) at Ranchi | 12/03/18 | 10:00 | 10/03/18 | 17:00 | OCB | POWERGRID ER-1 | OVER HAULING OF CB & AMP | | | | |
| 6 | 417 (Tie of 80MVAR B/R Main Bay & RGP-II) at Ranchi | 15/03/18 | 10:00 | 17/03/18 | 17:00 | OCB | POWERGRID ER-1 | OVER HAULING of CB & AMP | | | | |
| 7 | 420 (Tie bay of Sipat-I) at Ranchi | 19/03/18 | 10:00 | 21/03/18 | 17:00 | OCB | POWERGRID ER-1 | OVER HAULING of CB & AMP | | | | |
| 9 | 403 (ICT-I Main Bay) at Ranchi | 26/03/18 | 10:00 | 23/03/18 | 17:00 | OCB | POWERGRID ER-1 | OVER HAULING OF CB & AMP | | | | |
| 10 | 315 MVA ICT-I at Ranchi | 28/03/18 | 10:00 | 28/03/18 | 17:00 | ODB | POWERGRID ER-1 | For fixing of Heatshrink at tertiary bushing | JUSNL | | | |
| 11 | 406 (ICT-II Main Bay) at Ranchi | 29/03/18 | 10:00 | 31/03/18 | 17:00 | OCB | POWERGRID ER-1 | OVER HAULING of CB & AMP | U ICAU | | | |
| 12 | 400kV JSR-ANDAL 1 LINE | 05/03/18 | 09:30 | 05/03/18 | 11:30 | ODB | POWERGRID ER-1 | CT OIL SAMPLING | DVC | | | |
| 14 | 400/220kV, 315MVA ICT-3 AT JSR | 07/03/18 | 09:30 | 07/03/18 | 17:30 | ODB | POWERGRID ER-1 | CSD TESTING WORK | JUSNL | | | |
| 15 | 400kV BUS-1 AT JSR | 09/03/18 | 09:30 | 09/03/18 | 17:30 | ODB | POWERGRID ER-1 | AMP WORK | | | | |
| 17 | 125 MVAR BR-2 AT JSR | 15/03/18 | 09:30 | 15/03/18 | 17:30 | ODB | POWERGRID ER-1 | CSD TESTING WORK | | | | |
| 18 | 200 MVA ICT-I AT BANKA SS | 08/03/18 | 10:00 | 08/03/18 | 18:00 | ODB | POWERGRID ER-1 | PROVIDING INSULATION SLEEVES ON TERTIARY CONDUCTOR | BSPHCL | | | |
| 19 | 200 MVA ICT-II AT BANKA SS | 09/03/18 | 10:00 | 09/03/18 | 18:00 | ODB | POWERGRID ER-1 | PROVIDING INSULATION SLEEVES ON TERTIARY CONDUCTOR | BSPHCL | | | |
| 20 | 132 KV MAIN BUS AT BANKA | 12/03/18 | 11:00 | 12/03/18 | 13:30 | ODB | POWERGRID ER-1 | UNDER S/D. | BSPHCL | | | |
| 21 | 400kV HVDC North side Converter Trx Main Bay @ Pusauli | 01/03/18 | 09:00 09:00 | 03/03/18 | 18:00 18:00 | OCB | POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work | NLDC | | | |
| 22 | 400/220kV 500MVA ICT-I AT PUSAULI | 05/03/18 | 09:00 | 05/03/18 | 18:00 | OCB | POWERGRID ER-1 | For Tertiary Insulation | NLDC BSPHCL | | | |
| 24 | 400kV Pusauli-Biharsharif-I | 06/03/18 | 09:00 | 06/03/18 | 18:00 | ODB | POWERGRID ER-1 | To attend Line CVT Problem | NLDC | | | |
| 25 | | 07/03/18 | 00:00 | 07/03/18 | 18:00 | ODB | POWERGRID ER-T | Replacement of Porcelain Insulator with Polymer Insulator. | INEDC | | | |
| 26 | 400kV HVDC East side Converter Tnx_Filter Tie Bay @ Pusauli | 08/03/18 | 09:00 | 10/03/18 | 18:00 | OCB | POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work | NLDC | | | |
| 27 | 3*110MVAR 765kV Bus Reactor Bay@Pusauli | 08/03/18 | 09:00 | 08/03/18 | 18:00 | ODB | POWERGRID ER-1 | AMP work | NLDC | | | |
| 28 | 400/220KV 315IVIVA ICT-II at Pusauli 400kV Pusauli-Biharsharif-II | 12/03/18 | 09:00 | 12/03/18 | 18:00 | ODB | POWERGRID ER-1 | To attend Line CVT Problem | NIDC | | | |
| 30 | 400kV North Side Filter Main Bay@Pusauli | 12/03/18 | 09:00 | 14/03/18 | 18:00 | OCB | POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work | NLDC | | | |
| 31 | 765/400kV, 1500MVA, ICT for regular changeover in 06 month | 11/03/18 | 09:00 | 13/03/18 | 18:00 | 1507400kV, 1500MVA ICT, B-Phase will be out from 11.03.2018to 13.03.2018 on continuous basis for 03 | POWERGRID ER-1 | 02 days for stability test and changing of Delta connection in LV side and 01 day for idle charging (without load) for 24 hrs due to first time charging of 500MVA, B-Phase ICT. Bus Reactor 703-52 will be out during isolation of ICT and thereafter reactor will be back in service through dia closing. There will not be any power flow in 765 kv Sasaram - Fatehpur line during the s/d of the ICT. | NIDC | | | |
| 32 | 220kV Main Bus-I @ Pusauli | 14/03/18 | 09:00 | 14/03/18 | 18:00 | ODB | POWERGRID ER-1 | AMP work | BSPHCL | | | |
| 33 | HVDC BTB System @ Pusauli | 20/03/18 | 09:00 | 25/03/18 | 18:00 | S/D required on Continuous Basis for 11 days | POWERGRID ER-1 | For Overhauling of 6 nos Converter Transformer . During The S/D period there shall be no power flow between 400kV East Bus and North Bus at Pusauli Through HVDC system . However 400kV East and North Bus shall remain connected through AC Bypass . | NLDC | | | |
| 34 | 400kV East Side Filter Main Bay@Pusauli | 15/03/18 | 09:00 | 17/03/18 | 18:00 | OCB | POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work | NLDC | | | |
| 35 | 400kV HVDC North side Converter Tnx_Filter Tie Bay @ | 19/03/18 | 09:00 | 21/03/18 | 18:00 | OCB | POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work | NUDC | | | |
| 36 | rusduli 400kV Allababad Main bay @ Rusauli | 22/02/10 | | | | | | | | | | |
| 30 | 400kv Alialiabau Ivialii bay 🕾 rusauli | 22/03/10 | 09:00 | 24/03/18 | 18:00 | OCB | POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work | NEDC | | | |
| 37 | 400kV Nabinagar-I Main Bay @ Pusauli | 22/03/18 | 09:00 09:00 | 24/03/18 22/03/18 | 18:00 18:00 | OCB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work | | | | |
| 37 38 39 | 400kV Alianabad Waln Bay @ Pusauli 400kV Nabinagar-I Main Bay @ Pusauli 400kV Saranath_Future Tie bay @ Pusauli 125MVAR Bus Reactor.II Main Bay AT PUSAUIU | 22/03/18 22/03/18 26/03/18 24/03/18 | 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 | 18:00 18:00 18:00 | OCB ODB OCB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work | | | | |
| 30 37 38 39 | Houry Nanadada unit ody er Sasuni 400kV Nabinagar-I Main Bay @ Pusauli 400kV Saranath. Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 125MVAR Bus Reactor-II Main Bay AT PUSAULI 126MVAB Bus Reactor-II Main Bay AT PUSAULI | 22/03/18 22/03/18 26/03/18 24/03/18 | 09:00 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 | 18:00 18:00 18:00 18:00 | OCB ODB OCB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non | | | | |
| 37 38 39 40 | VOLV Y Nanakada vani day er Josauli 400kV Naihinggr-1 Main Bay @ Pusauli 400kV Saranath. Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Biharsharif-IV Main Bay @ Pusauli | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 | 09:00 09:00 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 | 18:00 18:00 18:00 18:00 18:00 | OCB ODB OCB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work AMP work. At present the mentioned bay is available but feeder is non existing | | | | |
| 30 37 38 39 40 41 42 | | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 28/03/18 28/03/18 | 09:00 09:00 09:00 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 28/03/18 31/03/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB OCB ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID FR-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work | | | | |
| 30 37 38 39 40 41 42 43 | Houry Nanadada unitadi e ' Gauli 400kV Nabinagar-I Main Bay @ Pusauli 400kV Saranath. Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Biharsharif-IV Main Bay @ Pusauli 400kV Biharsharif-IV Main Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 765 kV Gay a- Varanasi - 1 | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 28/03/18 29/03/18 17/03/18 | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 28/03/18 31/03/18 27/03/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB ODB ODB ODB OCB OCB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. | NLDC | | | |
| 30 37 38 39 40 41 42 43 44 | Houry Nanadada Yani Gay @ Pusauli 400kV Naininagar-I Main Bay @ Pusauli 400kV Saranath. Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Jiharsharif-IV Main Bay @ Pusauli 400kV Alahabad_Future Tie Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 765 kV Gay a- Varanasi - I | 22/03/18 22/03/18 24/03/18 27/03/18 28/03/18 28/03/18 29/03/18 17/03/18 24/02/18 | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 28/03/18 31/03/18 27/03/18 15/02/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB OCB ODB ODB ODB OCB OCB OCB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work FOR BCTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CONSINC) | NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 | Houry Nanadada unitady er Josauli 400kV Naininagar-I Main Bay @ Pusauli 400kV Saranath. Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Jaiharsharif-IV Main Bay @ Pusauli 400kV Alahabad_Future Tie Bay @ Pusauli 400kV Alahabad_Future Tie Bay @ Pusauli 765 kV Gay a- Varanasi - I 765 kV Gay a- Varanasi - II 400 kV FKK- KAHALGAON -3 AND 4 | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 28/03/18 29/03/18 17/03/18 24/02/18 13/03/18 | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 28/03/18 31/03/18 27/03/18 15/02/18 28/03/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB OCB ODB ODB ODB OCB OCB OCB OCB | POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL | NLDC NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 46 | Hooky Nahanagar Ji Main Bay @ Pusauli 400kV Nahinagar-J Main Bay @ Pusauli 400kV Saranath_Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Jiharsharif -IV Main Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 765 kV Gay a- Varanasi - I 400 KV FKK- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -3 AND 4 | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 28/03/18 29/03/18 17/03/18 24/02/18 13/03/18 29/03/18 | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 31/03/18 27/03/18 15/02/18 28/03/18 31/03/18 31/03/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB ODB ODB OCB OCB OCB OCB OCB OCB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work For RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL | NLDC NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 46 47 48 | Hook Y Nahanada Yang Yang Yang Yang Yang Yang Yang Yan | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 27/03/18 29/03/18 29/03/18 24/02/18 13/03/18 29/03/18 29/03/18 20/03/18 | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 08:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 31/03/18 27/03/18 15/02/18 28/03/18 31/03/18 20/03/18 20/03/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB ODB ODB ODB OCB OCB OCB OCB OCB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work FOR BCTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. | NLDC NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 46 47 48 49 | Houxy Nanaada May e Yusauli 400kV Nabinagar-I Main Bay @ Pusauli 400kV Saranath, Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay @ Pusauli 400kV Zibinagar-II-IV Main Bay @ Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 25MVAR Bus Reactor-II at pusauli 400kV 420kV Allahabad_Future Tie Bay @ Pusauli 400kV 56 ay a- Varanasi - I 765 kV Gay a- Varanasi - II 400 kV FKK- KAHALGAON - 3 AND 4 400 kV FKK- KAHALGAON - 1 AND 2 400 kV RKK- KNALGAON - 1 AND 2 400 kV RNC - NRNC Ckt-3 400 kV RNC - NRNC Ckt-4 400 kV CK Adadawa - Gaya Ckt-1 | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 27/03/18 29/03/18 29/03/18 24/02/18 13/03/18 29/03/18 29/03/18 21/03/18 14/03/18 | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 08:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 31/03/18 31/03/18 15/02/18 15/02/18 31/03/18 21/03/18 21/03/18 14/03/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB OCB ODB ODB OCB OCB OCB OCB OCB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work FOR SHIFTING/RECTIFICATION OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. | NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 46 47 48 49 50 | Houxy Nanaada Maria May er Asauli 400kV Nahinagar-I Main Bay er Pusauli 400kV Saranath, Future Tie bay er Pusauli 125MVAR Bus Reactor-II Main Bay er Pusauli 400kV Aliahabad_Future Tie Bay er Pusauli 400kV Aliahabad_Future Tie Bay er Pusauli 400kV Aliahabad_Future Tie Bay er Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV Aliahabad_Future Tie Bay er Pusauli 400kV K Gay a- Varanasi - I 765 kV Gay a- Varanasi - I 400 kV FKK-KAHALGAON -3 AND 4 400 kV KKK-KAHALGAON -1 AND 2 400 kV KNC - NRNC Ckt-3 400 kV V KNC - NRNC Ckt-4 400 kV Chandawa - Gaya Ckt-1 400 kV Chandawa - Gaya Ckt-2 | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 24/02/18 13/03/18 29/03/18 29/03/18 21/03/18 21/03/18 14/03/18 | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 31/03/18 27/03/18 15/02/18 28/03/18 31/03/18 20/03/18 20/03/18 11/03/18 14/03/18 15/03/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB ODB ODB ODB OCB OCB OCB OCB ODB ODB ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work For RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. | | | | |
| 30 37 38 39 40 41 42 43 44 44 45 46 47 48 49 50 51 52 | Houxy Nanaada Waye Casauii 400kV Nabinagar-I Main Bay @ Pusauli 400kV Saranath, Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Zaranath, Future Tie Bay @ Pusauli 400kV Jabharsharff-IV Main Bay @ Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV KK K- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -1 AND 2 400 KV KRK- KAHALGAON -1 AND 2 400 KV KRK- KAHALGAON -1 AND 2 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-2 3X500 MVA ICT-I AT NRNC 765 KV, ZBW MVAR B/R-II AT NRNC | 22/03/16 22/03/18 26/03/18 24/03/18 21/03/18 29/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 21/03/18 15/03/18 15/03/18 | 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 31/03/18 27/03/18 27/03/18 27/03/18 20/03/18 20/03/18 20/03/18 21/03/18 14/03/18 15/03/18 07/03/18 | 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB OCB ODB ODB OCB ODB | POWERGRID ER-1 POWERGRID FR-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work. At present the mentioned bay is available but feeder is non existing AMP work For Breaker Drive overhauling and Bay AMP work FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT – PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT – PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION | NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 37 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 | Houry Nanaada Yang Yang Yang Yang Yang Yang Yang Yan | 22/03/18 22/03/18 22/03/18 24/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 20/03/18 13/03/18 15/03/18 15/03/18 12/03/18 | 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 27/03/18 27/03/18 15/02/18 28/03/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 | 18:00 18 | OCB ODB OCB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling ond Bay AMP work FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION Spare switching after carrying out stability STATCOM CONSTRUCTION | NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 30 37 38 38 39 40 41 42 43 44 45 546 47 48 49 50 51 52 53 54 | Houxy Nanabada Yana Kay er Pusauli 400kV Nabinagar-I Main Bay @ Pusauli 400kV Saranath, Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay Af PUSAULI 400kV Saranath, Future Tie Bay @ Pusauli 400kV Biharsharff-IV Main Bay @ Pusauli 400kV Siharsharff-IV Main Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV Kilahabad_Future Tie Bay @ Pusauli 400kV KKK KAHALGAON-3 AND 4 400 KV FKK- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -3 AND 4 400 KV RNC - NRNC Ckt-3 400 KV RNC - NRNC Ckt-3 400 KV RNC - NRNC Ckt-3 400 KV RNC - NRNC Ckt-4 400 KV RNC - NRNC Ckt-3 400 KV RNC - NRNC Ckt-4 400 KV RNC - NRNC Ckt-3 30500 MVA ICT-I AT NRNC 765 KV, 3x80 MVA RE/R-II AT NRNC 30500 MVA ICT-I AT NRNC 300 KV Ranchi-NPPSP-J line 00 KV Ranchi-NPSP-J line 00 KV Ranchi-NPSP-J line 00 KV Ranchi-NPSP-J line 00 KV Ranchi-NPSP-J line | 22/03/16 22/03/16 22/03/18 24/03/18 24/03/18 27/03/18 28/03/18 29/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 20/03/18 5/03/18 5/03/18 | 09:00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 27/03/18 15/02/18 28/03/18 21/03/18 20/03/18 20/03/18 15/03/18 07/03/18 07/03/18 07/03/18 15/03/18 | 18:00 18 | OCB ODB ODB ODB ODB OCB OCB OCB OCB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work For BreiticATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION STATCOM CONSTRUCTION STATCOM CONSTRUCTION | NLDC NLDC NLDC NLDC NLDC NLDC NLDC WB | | | |
| 30 37 38 39 40 41 42 43 44 45 44 45 46 47 48 49 50 51 52 53 54 55 56 56 | Hook Y Nahanado Hay e Pusauli 400kV Nahinagar-I Main Bay @ Pusauli 400kV Saranath_Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Jiharsharif-IV Main Bay @ Pusauli 400kV Jibarsharif-IV Main Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 765 kV Gay a- Varanasi - I 400 KV FKK- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -3 AND 4 400 KV KNC - NRNC Ckt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 550 MVA ICT -I AT NRNC 3500 MVA ICT -I AT NRNC 400 KV Ranchi-NPPSP-I line 400 KV BUS -I AT NRNC 400 KV BUS -I AT NRNC | 22/03/16 22/03/18 26/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 | 09:00 00 09:00 00 09:00 00 00 00 00 00 00 00 00 00 00 00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 15/02/18 31/03/18 31/03/18 31/03/18 21/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 | 18:00 18 | OCB ODB ODB ODB ODB OCB OCB OCB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work For BreiticATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION STATCOM CONSTRUCTION STATCOM CONSTRUCTION STATCOM CONSTRUCTION STATCOM CONSTRUCTION | NLDC NLDC NLDC NLDC NLDC NLDC WB | | | |
| 30 37 38 39 40 41 42 43 44 45 44 45 46 47 47 50 51 52 53 55 56 57 | Hook Y Nahanado Hay e Pusauli 400kV Nahinagar-I Main Bay @ Pusauli 400kV Saranath_Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Nisharsharif-IV Main Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV KKK KAHALGAON-3 AND 4 400 KV FKK- KAHALGAON-3 AND 4 400 KV FKK- KAHALGAON-1 AND 2 400 KV FKK- KAHALGAON-1 AND 2 400 KV KKK- KAHALGAON-1 AND 2 400 KV KKK- KAHALGAON-1 AND 2 400 KV KNC - NRNC CKt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-2 3X500 MVA ICT-1 AT NRNC 3X500 MVA ICT-1 AT NRNC 3X500 MVA ICT-1 IAT NRNC 400 KV BUS - AT NRNC 400 KV BUS - AT NRNC | 22/03/16 22/03/18 26/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 29/03/18 24/02/18 13/03/18 20/03/18 15/03/18 15/03/18 12/03/18 15/03/18 12/03/18 20/03/18 20/03/18 | 09:00 00 09:00 00 09:00 00 00 00 00 00 00 00 00 00 00 00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 31/03/18 31/03/18 15/02/18 31/03/18 21/03/18 15/03/18 07/03/18 14/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 | 18:00 | OCB ODB ODB ODB ODB OCB OCB OCB OCB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For ShifticATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION | NLDC NLDC NLDC NLDC NLDC NLDC NLDC WB WB | | | |
| 30 37 38 39 40 41 42 43 44 45 44 45 50 51 52 53 55 56 57 58 | Hook Y Nahanado Y e Yusauli 400kV Nahinagar-I Main Bay @ Pusauli 400kV Saranath_Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Saranath_Future Tie Bay @ Pusauli 400kV Jabharsharif-I/ Main Bay @ Pusauli 400kV Jabharsharif-I/ Main Bay @ Pusauli 400kV Jabharsharif-I/ Main Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV Kalahabad_Future Tie Bay @ Pusauli 400kV Kay a- Varanasi - I 765 kV Gay a- Varanasi - I 400 kV FKK- KAHALGAON -3 AND 4 400 kV FKK- KAHALGAON -1 AND 2 400 kV RNC - NRNC Ckt-3 400 kV Chandawa - Gaya Ckt-1 400 kV Chandawa - Gaya Ckt-2 3X500 MVA ICT-I AT NRNC 765 kV , 3X80 MVA B/R-II AT NRNC 400 kV Ranch-INPEP-I line 400 kV Ran | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 29/03/18 29/03/18 24/02/18 13/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 15/03/18 15/03/18 15/03/18 16/03/18 16/03/18 | 09:00 00 00 00 00 00 00 00 00 00 00 00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 27/03/18 15/02/18 28/03/18 31/03/18 21/03/18 15/03/18 14/03/18 15/03/18 07/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 | 18:00 | OCB ODB ODB ODB ODB OCB OCB OCB OCB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION | NLDC NLDC NLDC NLDC NLDC NLDC NLDC WB WB NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 | Houxy Nananada Yang Yangani Yooky Nahinagar-I Main Bay @ Pusauli 400kV Saranath, Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay @ Pusauli 400kV JabihasharfI-IV Main Bay @ Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 25MVAR Bus Reactor-II at pusauli 400kV 420kV Gay a- Varanasi - I 765 kV Gay a- Varanasi - I 400 KV FKK- KAHALGAON - 3 AND 4 400 KV FKK- KAHALGAON - 1 AND 2 400 KV RKK- KAHALGAON - 1 AND 2 400 KV RNC - NRNC Ckt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 400 KV Ronc-I- AT NRNC 765 KV, 3800 MVA ICT-II AT NRNC 3X500 MVA ICT-I AT NRNC 400 KV BUS - I AT NRNC 400 KV BUS - J AT NRNC 765 KV , NEW RANCHI - DHARMAJAYGARH-II Line 765 KV , NEW RANCHI - DHARMAJAYGARH-II LINE 765 KV , NEW RANCHI - DHARMAJAYGARH-II LINE 765 KV , NEW RANCHI - DHARMAJAYGARH-III | 22/03/18 22/03/18 26/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 05/03/18 05/03/18 | 09:00 00 00 00 00 00 00 00 00 00 00 00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 31/03/18 27/03/18 15/02/18 28/03/18 31/03/18 21/03/18 21/03/18 15/03/18 07/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 | 18:00 | OCB ODB OCB ODB ODB OCB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION | NLDC NLDC NLDC NLDC NLDC NLDC NLDC WB WB NLDC NLDC NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 50 | Houry Nananador July er Vasauli 400KV Nabinagar-I Main Bay @ Pusauli 400KV Saranath, Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay @ Pusauli 400kV Abiharsharff-IV Main Bay @ Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 43Iahabad_Future Tie Bay @ Pusauli 400kV KK KakALGAON -3 AND 4 400 KV FKK- KAHALGAON -1 AND 2 400 KV KK KAHALGAON -1 AND 2 400 KV KK KAHALGAON -1 AND 2 400 KV KNC - NRNC Ckt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 400 KV KNC - NRNC Ckt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-2 3X500 MVA ICT-II NRNC 400 KV Barchi-NPPSP-I line 400 KV BuS - AT NRNC 400 KV Ranchi-NPSPS-I line 400 KV Ranchi-NPSPS-I line 400 KV BuS - AT NRNC 765 KV , NEW RANCHI - DHARMAJAYGARH-II Line 765 KV , NEW RANCHI - DHARMAJAYGARH-II Line 765 KV , NEW RANCHI - DHARMAJAYGARH-II Line 765 KV , NEW RANCHI - DHARMAJAYGARH-I | 22/03/18 22/03/18 24/03/18 24/03/18 24/03/18 29/03/18 29/03/18 29/03/18 24/02/18 29/03/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 20/ | 09:00 00 09:00 00 09:00 00 00 00 00 00 00 00 00 00 00 00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 27/03/18 15/02/18 27/03/18 27/03/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 17/03/18 17/03/18 17/03/18 17/03/18 20/03/18 | 18:00 | OCB ODB OCB ODB ODB OCB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work. At present the mentioned bay is available but feeder is non existing AMP work. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT – PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT – PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT – PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION STAT | NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 44 45 50 51 51 52 53 54 55 55 57 58 59 60 61 10 | Houry Nananada Yang Yang Yonky Nahinagar-I Main Bay @ Pusauli 400kV Saranath, Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Aliahabad_Future Tie bay @ Pusauli 400kV Aliahabad_Future Tie bay @ Pusauli 400kV Aliahabad_Future Tie Bay @ Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV Aliahabad_Future Tie Bay @ Pusauli 400kV 75K-KAHALGAON -3 AND 4 400 KV FKK-KAHALGAON -1 AND 2 400 KV KRK-KAHALGAON -1 AND 2 400 KV KRK-KAHALGAON -1 AND 2 400 KV KRK-KAHALGAON -1 AND 2 400 KV KNC - NRNC CkI-3 400 KV KNC - NRNC CKI-3 400 KV KNG MAWA 6/aya CkI-1 400 KV KNG MWAB 6/FI IAT NRNC 765 KV, JS00 MVAR B/FI IAT NRNC 30500 MVA ICT-I AT NRNC 400 KV Banchi-NPPSP-I line 400 KV Banchi-NPPSP-I line 400 KV W Sanchi-NPSP-I line 400 KV BANCHI - DHARMAJAYGARH-II Line 765 KV, NEW RANCHI - DHARMAJAYGARH-II Line 765 KV, NEW RANCHI - DHARMAJAYGARH-II Line 715 MVA ICT 2 AT MUZ 800 KV BNC- AGRA HVOC LINE 9004 KP KN CH- CARA HVOC LINE | 22/03/18 22/03/18 22/03/18 24/03/18 24/03/18 27/03/18 28/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 20/03/18 13/03/18 15/03/18 15/03/18 15/03/18 05/03/18 05/03/18 20/03/18 | 09:00 08:00 08 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 27/03/18 15/02/18 28/03/18 27/03/18 15/02/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 17/03/18 17/03/18 17/03/18 17/03/18 17/03/18 12/03/18 20/ | 18:00 18 | OCB ODB OCB ODB ODB OCB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work. For Breaker Drive overhauling and Bay AMP work. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION S | NLDC NLDC NLDC NLDC NLDC NLDC NLDC WB WB NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 30 37 38 39 40 41 42 43 44 45 44 45 45 50 51 52 53 54 55 55 57 58 59 60 61 62 | Hooky Natanagar J Main Bay @ Pusauli 400kV Nathinagar-I Main Bay @ Pusauli 400kV Saranath_Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV J125MVAR Bus Reactor-II at pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 65 kV Gay a- Varanasi - II 400 KV FKK- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -3 AND 4 400 KV KNC - NRNC Ckt-3 400 KV KW C- NRNC Ckt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 400 KV Roc - NRNC Ckt-3 400 KV Roch-I-NRNC CKt-3 400 KV Ranchi-NPSP-II line 400 KV Ranchi-NPSPS-I line 400 KV Ranchi-NPSPS-II line 400 KV Ranchi-SPSPS-II line 400 KV Ranchi - DHARMAJAYGARH-II LINE 765 KV , NEW RANCHI - DHARMAJAYGARH-II LINE | 22/03/16 22/03/16 26/03/18 24/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 20/03/18 15/03/18 15/03/18 20/03/18 15/03/18 15/03/18 20/03/18 15/03/18 | 09:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 15/02/18 27/03/18 15/02/18 28/03/18 21/03/18 21/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 19/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 25/ | 18:00 | OCB ODB ODB ODB ODB OCB OCB OCB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | POWERGRID ER-1 POWERGRID FR-1 POWERG | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work For BreitricATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTIO | NLDC NLDC NLDC NLDC NLDC NLDC WB WB NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 56 56 59 60 61 62 63 64 | Hooky Natanagar J Main Bay @ Pusauli 400kV Nathinagar-I Main Bay @ Pusauli 400kV Saranath_Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Jisharsharif-IV Main Bay & Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV KKK KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -1 AND 2 400 KV FKK- KAHALGAON -1 AND 2 400 KV FKK- KAHALGAON -1 AND 2 400 KV KNC - NRNC CKt-3 400 KV Chandawa - Gaya CKt-1 400 KV Chandawa - Gaya CKt-2 3X500 MVA ICT -1 AT NRNC 3X500 MVA ICT -1 AT NRNC 400 KV BUS - 1 AT NRNC 55 KV , NEW RANCHI - DHARMAJAYGARH-II Line 765 KV , NEW RANCHI - DHARMAJAYGARH-II LINE 765 KV , NEW RANCHI - DHARMAJAYGARH-II LINE 765 KV , NEW RANCHI - DHARMAJAYGARH-II LINE 600 KV BNC - AGRA | 22/03/18 22/03/18 26/03/18 24/03/18 24/03/18 29/03/18 29/03/18 29/03/18 29/03/18 24/02/18 13/03/18 20/03/18 15/03/18 15/03/18 109/03/18 109/03/18 109/03/18 05/03/18 03/03/18 | 09:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 15/02/18 15/02/18 27/03/18 15/02/18 21/03/18 21/03/18 15/03/18 07/03/18 07/03/18 07/03/18 05/03/18 15/03/18 05/03/18 05/03/18 21/03/18 21/03/18 21/03/18 05/03/18 25/03/18 05/03/18 07/03/18 | 18:00 | OCB ODB ODB ODB ODB OCB ODB ODB | POWERGRID ER-1 POWERGRID ER-1 | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work For BreitricATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CON | NLDC NLDC NLDC NLDC NLDC NLDC NLDC WB NLDC WB NLDC SSPHCL NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 30 37 38 39 40 41 42 44 43 44 45 56 51 55 55 56 57 58 59 60 61 62 63 64 65 57 | Hooky Nahanagar J Main Bay @ Pusauli 400kV Nahinagar-I Main Bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Saranath_Future Tie bay @ Pusauli 400kV Saranath_Future Tie Bay @ Pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV JSMVAR Bus Reactor-II at pusauli 400kV Allahabad_Future Tie Bay @ Pusauli 400kV K Gay a- Varanasi - I 765 kV Gay a- Varanasi - II 400 kV FKK- KAHALGAON - 3 AND 4 400 kV KKK- KAHALGAON - 3 AND 4 400 kV FKK- KAHALGAON - 1 AND 2 400 kV RKC - NRNC CKI-3 400 kV Chandawa - Gaya Ckt-1 400 kV Chandawa - Gaya Ckt-2 3X500 MVA ICT-I AT NRNC 765 kV J Sach MVA B/R-II IAT NRNC 400 kV BUS - I AT NRNC 400 kV BUS - J AT NRNC 400 kV BUS - J AT NRNC 56 kV , NEW RANCHI - DHARMAJAYGARH-II Line 765 kV , NEW RANCHI - DHARMAJAYGARH-II Line 765 kV , NEW RANCHI - DHARMAJAYGARH-II LINE 765 kV , NEW RANCH - DHARMAJAYGARH-II LINE 765 kV , NEW RANCKI - DHARMAJAYGAR | 22/03/18 22/03/18 26/03/18 24/03/18 24/03/18 27/03/18 29/03/18 29/03/18 24/02/18 13/03/18 24/02/18 13/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 05/03/18 15/03/18 05/03/18 05/03/18 15/03/18 05/03/18 05/03/18 | 09:00 00 00 00 00 00 00 00 00 00 00 00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 31/03/18 31/03/18 15/02/18 28/03/18 31/03/18 15/02/18 28/03/18 21/03/18 14/03/18 15/03/18 07/03/18 07/03/18 15/03/18 07/03/18 15/03/18 05/03/18 05/03/18 14/03/18 15/03/18 05/03/18 05/03/18 05/03/18 14/03/18 13/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 03/ | 18:00 | OCB ODB OCB ODB ODB OCB ODB ODB | POWERGRID ER-1 POWERG | For Breaker Drive overhauling and Bay AMP work AMP work AMP work AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work. At present the mentioned bay is available but feeder is non existing AMP work. At present the mentioned bay is available but feeder is non existing AMP work. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONS | NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 30 37 38 39 40 41 41 42 43 44 45 54 46 47 48 49 50 51 52 55 56 57 58 59 60 61 62 63 64 65 66 67 | Houry Nananador Unit Nananador Unit VolkY Nahinagar-I Main Bay @ Pusauli 400kV Saranath, Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Jabinagar-II Main Bay @ Pusauli 400kV Jabinagar-II Main Bay @ Pusauli 400kV Jabinagar-II Main Bay @ Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 4Jlahabad_Future Tie Bay @ Pusauli 400kV 4Jlahabad_Future Tie Bay @ Pusauli 400kV 4KK- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -1 AND 2 400 KV FKK- KAHALGAON -1 AND 2 400 KV RNC - NRNC Ckt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-2 3X500 MVA ICT-I AT NRNC 400 KV BuS-1 AT NRNC 400 KV BuS-1 AT NRNC 400 KV BuS-2 AT NRNC 765 KV , NEW RANCHI - DHARMAJAYGARH-II LINE 400 KV BS-Varanasi CKT-I 400 KV BSF-Varanasi CKT-I 400 KV BSF-Varanasi CKT-I 400 KV SSF-Varanasi CKT-I 400 KW SSF-Varanasi CKT-I 400 KV | 22/03/18 22/03/18 26/03/18 24/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 05/ | 09:00 00:00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 24/03/18 27/03/18 27/03/18 27/03/18 27/03/18 15/02/18 28/03/18 21/03/18 21/03/18 15/03/18 07/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 25/03/18 14/03/18 25/03/18 13/03/18 13/03/18 13/03/18 25/03/18 13/03/18 13/03/18 13/03/18 25/03/18 13/ | 18:00 | OCB ODB ODB ODB ODB OCB ODB ODB | POWERGRID ER-1 POWERG | For Breaker Drive overhauling and Bay AMP work AMP work AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work. At present the mentioned bay is available but feeder is non existing AMP work. At present the mentioned bay is available but feeder is non existing AMP work. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION ST | NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 37 38 39 40 41 42 43 44 45 56 57 58 59 60 61 62 63 64 65 66 67 67 68 67 | Houxy Nananador Unit Nananador Unit VolkY Nahinagar-I Main Bay @ Pusauli 400kV Saranath, Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Jabinagar-II Main Bay @ Pusauli 400kV Alahabad_Future Tie Bay @ Pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 125MVAR Bus Reactor-II at pusauli 400kV 420kV Gay a- Varanasi - I 765 kV Gay a- Varanasi - I 400 KV FKK- KAHALGAON -3 AND 4 400 KV FKK- KAHALGAON -1 AND 2 400 KV RKK- KAHALGAON -1 AND 2 400 KV RKK- KAHALGAON -1 AND 2 400 KV RNC - NRNC Ckt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Rench-INPESP-II line 400 KV BUS -1 AT NRNC 400 KV BUS -2 AT NRNC 400 KV BUS - 2 AT NRNC 400 KV BUS - 2 AT NRNC 400 KV BUS - 2 AT NRNC 765 KV , NEW RANCHI - DHARMAJAYGARH-II LINE 400 KV BSF-Varanasi CKT-II 400 KV BSF-Varanasi CKT-II 400 KV BSF-Varanasi CKT-II 400 KV BSF-Varanasi CKT-II | 22/03/18 22/03/18 26/03/18 24/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 20/03/18 20/03/18 20/03/18 15/03/18 15/03/18 05/ | 09:00 08:00 00:00 10 | 24/03/18 22/03/18 28/03/18 24/03/18 24/03/18 27/03/18 27/03/18 27/03/18 15/02/18 27/03/18 27/03/18 20/03/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 17/03/18 17/03/18 17/03/18 17/03/18 25/03/18 05/03/18 25/03/18 07/03/18 25/03/18 21/ | 18:00 | OCB ODB OCB ODB ODB OCB ODB ODB | POWERGRID ER-1 POWERG | For Breaker Drive overhauling and Bay AMP work AMP work AMP work AMP work AMP work. At present the mentioned bay is available but feeder is non existing AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY (ROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM | NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 37 38 39 40 41 42 43 44 45 56 57 58 56 57 58 56 57 58 50 61 62 63 64 65 67 68 69 69 | Hook Y Nahanado Hay e Pusauli 400kV Nahinagar-I Main Bay @ Pusauli 400kV Saranath_Future Tie bay @ Pusauli 125MVAR Bus Reactor-II Main Bay AT PUSAULI 400kV Jisharsharif-IV Main Bay AT PUSAULI 400kV Allahabad_Future Tie Bay @ Pusauli 400kV KK-KAHALGAON-3 AND 4 400 KV FKK-KAHALGAON -3 AND 4 400 KV FKK-KAHALGAON -1 AND 2 400 KV RKK- NRNC CKt-3 400 KV KK- KAHALGAON -1 AND 2 400 KV RNC - NRNC CKt-3 400 KV RNC - NRNC CKt-3 3050 MVA ICT -1 AT NRNC 3050 MVA ICT -1 AT NRNC 400 KV BUS -1 AT NRNC 55 KV, NEW RANCHI - DHARMAJAYGARH-II Line 765 KV, NEW RANCHI - DHARMAJAYGARH-II LINE 765 KV, NEW RANCH - DHARMAJAYGARH-II LINE 765 KV, NEW RANCH - DHARMAJAYGARH-II LINE 600 KV BSF-Varanasi CKT-I 400kV BSF-SASARAM CKT-I 400kV BSF-SASARAM CKT-I | 22/03/18 22/03/18 26/03/18 24/03/18 24/03/18 29/03/18 29/03/18 29/03/18 29/03/18 24/02/18 17/03/18 29/03/18 20/03/18 20/03/18 20/03/18 20/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 07/03/18 05/03/18 05/03/18 07/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 05/03/18 02/03/18 02/03/18 05/03/18 02/ | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 08:00 09:00 08:00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 15/02/18 15/02/18 27/03/18 15/02/18 28/03/18 21/03/18 15/03/18 07/03/18 07/03/18 07/03/18 05/03/18 05/03/18 05/03/18 21/03/18 25/03/18 05/03/18 25/03/18 25/03/18 07/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 21/ | 18:00 | OCB ODB ODB ODB OCB ODB ODB | POWERGRID ER-1 POWERG | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work For BreitricATION/SHIFTING OF LOCATION NO 448. FOR BCTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION S | NLDC NLDC NLDC NLDC NLDC NLDC NLDC WB NLDC WB NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |
| 37 38 39 40 41 42 43 44 45 57 54 49 50 51 52 53 54 55 56 56 57 58 59 60 61 63 64 67 68 69 70 70 | Houxy Nananador Buy @ Pusauli 400KV Nabinager-I Main Bay @ Pusauli 400KV Saranath_Future Tie Bay @ Pusauli 400KV Saranath_Future Tie Bay @ Pusauli 400KV 125MVAR Bus Reactor-II at pusauli 400kV Allanabad_Future Tie Bay @ Pusauli 400kV Koga - Varanasi - II 400 KV FKK- KAHALGAON - 3 AND 4 400 KV FKK- KAHALGAON - 3 AND 4 400 KV FKK- KAHALGAON - 3 AND 4 400 KV KNC - NRNC Ckt-3 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-1 400 KV Chandawa - Gaya Ckt-2 35500 MVA ICT-I AT NRNC 400 KV BUS - LATI NRNC 55 KV, NEW RANCHI - DHARMAJAYGARH-II LINE 765 KV, NEW RANCHI - DHARMAJAYGARH-II LINE 700 KV BSF-SASARAM CKT-I | 22/03/18 22/03/18 24/03/18 24/03/18 24/03/18 27/03/18 29/03/18 29/03/18 29/03/18 29/03/18 29/03/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 20/03/18 15/03/18 15/03/18 20/03/18 15/03/18 20/ | 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 08:00 09:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 08:00 09:00 00 09:00 00 00 00 00 00 00 00 00 00 | 24/03/18 22/03/18 28/03/18 24/03/18 27/03/18 27/03/18 27/03/18 15/02/18 27/03/18 15/02/18 28/03/18 20/03/18 20/03/18 20/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 15/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 25/03/18 20/03/18 20/03/18 20/03/18 20/03/18 20/03/18 20/03/18 20/03/18 20/03/18 20/03/18 20/03/18 | 18:00 18 | OCB ODB OCB ODB OCB ODB ODB | POWERGRID ER-1 POWERG | For Breaker Drive overhauling and Bay AMP work AMP work For Breaker Drive overhauling and Bay AMP work AMP work. AMP work. At present the mentioned bay is available but feeder is non existing AMP work. For Breaker Drive overhauling and Bay AMP work For Breaker Drive overhauling and Bay AMP work. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR RECTIFICATION/SHIFTING OF LOCATION NO 448. FOR SHIFTING/RECTIFICATION OF TOWER NO 338 AND 339 (RAILWAY CROSSING) CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL CONST. WORK OF 400 KV D/C RAJARHAT - PURNEA TL Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. Replacement of Insulators damaged by miscreants. STATCOM CONSTRUCTION STATCOM CONSTRUCTION ST | NLDC NLDC NLDC NLDC NLDC NLDC NLDC WB NLDC WB NLDC NLDC NLDC NLDC NLDC NLDC NLDC NLDC | | | |

| Description Normal Mathematical Mathematimateri Mathematical Mathematimateri Mathematical Mathe | 71 | 132 kV Gaya - Sipara D/c Line | 13/03/18 | 09:00 | 14/03/18 | 18:00 | ODB | POWERGRID ER-I | FOR POWER LINE CROSSING WORK OF 400 kV NABINAGAR - II - PATNA | DOD LOI |
|---|-----------|--|----------------------|----------------|----------------------|----------------|------------|-----------------|--|------------------------------------|
| N Normal and any and any | 72 | 400 kW Bibarcarif Maranaci I & II | 14/02/19 | 00:00 | 17/02/19 | 19.00 | ODR | POWERGRID ER-I | FOR POWER LINE CROSSING WORK OF 400 kV NABINAGAR - II - PATNA | R2DHCF |
| Display Display <t< td=""><td>72</td><td></td><td>10/03/10</td><td>07.00</td><td>17703/10</td><td>10.00</td><td>ODD</td><td>POWERGRID FR-I</td><td>TRANSMISSION INE BETWEEN LOC NO 312 & 313 For Power Line Crossing Work of 400 kV Nabinagar - II - Patna</td><td>NLDC</td></t<> | 72 | | 10/03/10 | 07.00 | 17703/10 | 10.00 | ODD | POWERGRID FR-I | TRANSMISSION INE BETWEEN LOC NO 312 & 313 For Power Line Crossing Work of 400 kV Nabinagar - II - Patna | NLDC |
| | 73 | 220 kV Gaya - Sonenagar D/c line | 20/03/18 | 09:00 | 21/03/18 | 18:00 | ODB | I OWERGRID ER I | TRANSMISSION INE BETWEEN LOC NO 284 & 285 | BSPHCL |
| | 74 | 132 kV Sonenagar - Aurangabad D/c line and Under Constaruction 132 kV D/C Barun - aurangabad Line | 23/03/18 | 09:00 | 24/03/18 | 18:00 | ODB | POWERGRID ER-I | FOR POWER LINE CROSSING WORK OF 400 kV NABINAGAR - II - PATNA TRANSMISSION INE | BSPHCL |
| Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<> | 75 | 400 kV Sasaram - Datonganj D/C Line | 27/03/18 | 09:00 | 28/03/18 | 18:00 | ODB | POWERGRID ER-I | FOR POWER LINE CROSSING WORK OF 400 kV NABINAGAR - II - PATNA | |
| Processor Processor <t< td=""><td>74</td><td>400 kV Dibarcarif Secorem L 8 II</td><td>20/02/19</td><td>00.00</td><td>21/02/10</td><td>19.00</td><td>ODP</td><td>POWERGRID ER-I</td><td>FOR POWER LINE CROSSING WORK OF 400 kV NABINAGAR - II - PATNA</td><td></td></t<> | 74 | 400 kV Dibarcarif Secorem L 8 II | 20/02/19 | 00.00 | 21/02/10 | 19.00 | ODP | POWERGRID ER-I | FOR POWER LINE CROSSING WORK OF 400 kV NABINAGAR - II - PATNA | |
| Bit State | 70 | | 20/03/18 | 09:00 | 21/03/18 | 18:00 | ODB | | TRANSMISSION INE BETWEEN LOC NO 296 & 297. | NLDC |
| Description Open Antipue Antip | 78 | 400kV Maithon-Gaya-2 line | 22/03/18 | 08:00 | 23/03/18 | 18:00 | ODB | POWERGRID ER-I | For replacement of insulators damaged by miscreant | |
| IDNormal statusSpace <td>79 80</td> <td>400kV Koderma-Gaya-1 line 400kV Koderma-Gaya-2 line</td> <td>22/03/18</td> <td>08:00</td> <td>23/03/18</td> <td>18:00 18:00</td> <td>ODB ODB</td> <td>POWERGRID ER-I</td> <td>For replacement of insulators damaged by miscreant</td> <td>DVC DVC</td> | 79 80 | 400kV Koderma-Gaya-1 line 400kV Koderma-Gaya-2 line | 22/03/18 | 08:00 | 23/03/18 | 18:00 18:00 | ODB ODB | POWERGRID ER-I | For replacement of insulators damaged by miscreant | DVC DVC |
| III III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | 81 | 220 KV BUS-I at Gaya S/S | 05/03/18 | 08:00 | 05/03/18 | 18:00 | ODB | POWERGRID ER-I | For KHIJARSARAI bay commisioning work | BSPHCL |
| Bit Not Product Sector Note of the sector Sector Sector Sector Sector Sector Sector Sector Secto | 82 | 220 KV BUS-II at Gaya S/S | 07/03/18 | 08:00 | 07/03/18 | 18:00 | ODB | POWERGRID ER-I | For KHIJARSARAI bay commisioning work | BSPHCL |
| B B Deck Deck <thdeck< th=""> Deck Deck<!--</td--><td>84</td><td>400 KV BUS-III at Gaya S/S</td><td>10/03/18</td><td>08:00</td><td>10/03/18</td><td>18:00</td><td>ODB</td><td>POWERGRID ER-I</td><td>for isolator mantanance work</td><td></td></thdeck<> | 84 | 400 KV BUS-III at Gaya S/S | 10/03/18 | 08:00 | 10/03/18 | 18:00 | ODB | POWERGRID ER-I | for isolator mantanance work | |
| B B B B B B Control B Control Contro Control | 85 | 765 KV BUS-I at Gaya S/S 765 KV BUS-II at Gaya S/S | 12/03/18 | 08:00 | 12/03/18 | 18:00 | ODB | POWERGRID ER-I | For isolator rectification work under S/S extn. Package | NLDC |
| Bit Bit Start | 87 | Main Bay of 765kV Gaya-VNS Ckt-I | 26/03/18 | 08:00 | 26/03/18 | 18:00 | ODB | POWERGRID ER-I | AMP work | NLDC |
| Bit Bin de Versie de Der Versie and Versie de Versie | 88 | 765 KV GAYA BALIA Tio Bay of 765kV Gaya VNS Ckt I | 06/03/18 | 08:00 | 07/03/18 | 18:00 | ODB | POWERGRID ER-I | LINE MAINTENANCE WORK. | NLDC |
| Bindball Control Bindball Control Bindball Control Bindball Bindball <t< td=""><td>90</td><td>408 (Tie Bay of 400 kV KHG-2 & 80 MVAR Bus Reactor) at</td><td>02/03/19</td><td>10.00</td><td>02/03/10</td><td>14.00</td><td>ODB</td><td>POWERGRID ER-I</td><td>Cable replacement of CR Spring Charging Motor and AMP</td><td>NEDC</td></t<> | 90 | 408 (Tie Bay of 400 kV KHG-2 & 80 MVAR Bus Reactor) at | 02/03/19 | 10.00 | 02/03/10 | 14.00 | ODB | POWERGRID ER-I | Cable replacement of CR Spring Charging Motor and AMP | NEDC |
| B Control Cont | 01 | Lakhisarai 200 MVA ICT 1. at Lakhisarai | 02/03/10 | 08.00 | 02/03/10 | 19.00 | ODB | | Charking of Air Coll & AMP | RSDUCI |
| 0000000000000000000000000 | 92 | 400 kV Main Bus-1 at Lakhisarai | 06/03/18 | 10:00 | 06/03/18 | 14:00 | ODB | POWERGRID ER-I | AMP | DIFFICE |
| B Disk Control Contro Control Control< | 93 04 | 400 kV Main Bus-2 at Lakhisarai 407 (Main Bay of 400 kV LKR-KHG-2) at Lakhisarai | 08/03/18 | 10:00 | 08/03/18 | 14:00 14:00 | ODB ODB | POWERGRID ER-I | AMP | |
| No.N | 95 | 200 MVA ICT-2 & 80 MVAR Bus Reactor at Lakhisarai | 13/03/18 | 08:00 | 16/03/18 | 18:00 | ODB | POWERGRID ER-I | Fire wall Construction, Checking of Aircel of ICT-2 and AMP | |
| Image: Control Section | 96 97 | 132 Kv Transfer Bus Coupler at Lakhisarai | 17/03/18 | 10:00 | 17/03/18 | 14:00 | ODB | POWERGRID ER-I | AMP | BSPHCL |
| Bit | 98 | 401 (Main Bay of 400 kV LKR-BSF-1) at Lakhisarai | 19/03/18 | 10:00 | 19/03/18 | 14:00 | ODB | POWERGRID ER-I | AMP | |
| Disk Description Description Process of the second sec | 99 100 | 402 (Tie Bay of 400 kV BSF-1 & ICT-1) at Lakhisarai | 21/03/18 | 10:00 | 21/03/18 | 14:00 | ODB | POWERGRID ER-I | AMP | |
| 100 100 1000 2000 1000 2000 1000 2000 1000 2000 1000 2 | 101 | 404 (Main Bay of 400 kV LKR-BSF-1) at Lakhisarai | 24/03/18 | 10:00 | 24/03/18 | 14:00 | ODB | POWERGRID ER-I | AMP | |
| Inst. Biology Science S | 102 | 405 (Tie Bay of 400 kV BSF-2 & ICT-2) at Lakhisarai | 26/03/18 | 10:00 | 26/03/18 | 14:00 | ODB | POWERGRID ER-I | AMP AMP | |
| Image Control | 103 | 410 (Main Bay of 400 kV LKR-KHG-1) at Lakhisarai | 29/03/18 | 10:00 | 29/03/18 | 14:00 | ODB | POWERGRID ER-I | AMP | |
| Int Optimizer Schegen Optimiz | 105 | 411 (Tie Bay of 400 kV KHG-1 & Future Bay) at Lakhisarai | 31/03/18 | 10:00 | 31/03/18 | 14:00 | ODB | POWERGRID ER-I | AMP | |
| Biol Model Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<> | 106 | 400 KV Lakhisarai Kahalgaon -1 | 05/03/18 | 08:00 | 05/03/18 | 18:00 | ODB | POWERGRID ER-I | L/R AMP work | |
| Dot Workshold Structure Dot Workshold Structure Note Composition of Monosition Structure Instructure Note Composition Structure Note Composition St | 107 | 400 KV Lakhisarai Kahalgaon -2 | 06/03/18 | 08:00 | 06/03/18 | 18:00 | ODB | POWERGRID ER-I | L/R AMP work People company of Porcelain insulator with Polymor insulator | NUDC |
| International Control 12/00/16 00/00 CONSTRUCT Control Contro Control Control </td <td>100</td> <td>400 KV PTN-BALIA CKT IV</td> <td>09/03/18</td> <td>08:00</td> <td>10/03/18</td> <td>17:30</td> <td>ODB</td> <td>POWERGRID ER-I</td> <td>Replacement of Porcelain insulator with Polymer insulator</td> <td>NLDC</td> | 100 | 400 KV PTN-BALIA CKT IV | 09/03/18 | 08:00 | 10/03/18 | 17:30 | ODB | POWERGRID ER-I | Replacement of Porcelain insulator with Polymer insulator | NLDC |
| 12 2000/FILE 2000/ | 110 | 400 KV PTN-KSNGJ CKT I | 13/03/18 | 08:00 | 13/03/18 | 17:30 | ODB | POWERGRID ER-I | Replacement of Porcelain insulator with Polymer insulator | |
| 113 100 VPTI MAL, CCT # 2200/VF 0000 2400/VF 0000 POURDED DE A Represented of Product members much or bit Program much or PourDe Product | 112 | 400 KV PTN-BAL CKT I | 20/03/18 | 08:00 | 21/03/18 | 17:30 | ODB | POWERGRID ER-I | Replacement of Porcelain insulator with Polymer insulator | NLDC |
| Int Biology of the Biology | 113 | 400 KV PTN-BAL CKT II | 22/03/18 | 08:00 | 23/03/18 | 17:30 17:30 | ODB | POWERGRID ER-I | Replacement of Porcelain insulator with Polymer insulator | NLDC |
| Ine Box Man bay of Patra Balla 3622 bay af Patra OF 200119 OF 200119 <tho 200119<="" th=""> OF 200119 <t< td=""><td>115</td><td>400 KV PTN-BRH CKT – 1 & 400KV KHL BARH CKT-II</td><td>29/03/18</td><td>08:00</td><td>30/03/18</td><td>17:30</td><td>ODB</td><td>POWERGRID ER-I</td><td>Replacement of Porcelain insulator with Polymer insulator</td><td></td></t<></tho> | 115 | 400 KV PTN-BRH CKT – 1 & 400KV KHL BARH CKT-II | 29/03/18 | 08:00 | 30/03/18 | 17:30 | ODB | POWERGRID ER-I | Replacement of Porcelain insulator with Polymer insulator | |
| International Statut Constructional Product Number Statut | 116 | 400KV Main bay of Patna Ballia 3(422 bay) at Patna | 07/03/18 | 09:30 | 07/03/18 | 17:30 | ODB | POWERGRID ER-I | | PSDUCI |
| 119 60000 ream bary of Paths Beh 3(21 bay) at Patha 1500.18 (7.30) 00000 report Patha App Performance Performance 12 2200 Vas. 14 Patha 1900.11 <t< td=""><td>118</td><td>400KV main bay of Patna Barh 3(421 bay) at Patna</td><td>12/03/18</td><td>09:30</td><td>10/03/18</td><td>17:30</td><td>ODB</td><td>POWERGRID ER-I</td><td>AMP</td><td>DOFFICE</td></t<> | 118 | 400KV main bay of Patna Barh 3(421 bay) at Patna | 12/03/18 | 09:30 | 10/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | DOFFICE |
| International and the second | 119 | 400KV main bay of Patna Barh 3(421 bay) at Patna | 15/03/18 | 09:30 | 15/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | |
| 12/2 EVEX.04Ain bay.of Plans. Michangari 2 at Plans. 2000/18 07-30 COURS POVEX.REGID R4. AMP 28 4670Aina bay.of Plan Fathman 27/00/18 07-30 COURS POVEX.REGID R4. AMP POVEX.REGID R4. AMP 128 410/Anin bay.of Plan Fathman 27/00/18 07-30 COUR POVEX.REGID R4. AMP POVEX.REGID R4. AMP <td>120</td> <td>401(Main bay of Patna Kishanganj 1) at Patna</td> <td>19/03/18</td> <td>09:30</td> <td>19/03/18</td> <td>17:30</td> <td>ODB</td> <td>POWERGRID ER-I</td> <td>AMP</td> <td>BSFILLE</td> | 120 | 401(Main bay of Patna Kishanganj 1) at Patna | 19/03/18 | 09:30 | 19/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | BSFILLE |
| 121 1200/101 09/30 22/02/16 17.30 00/88 POWESKID E31 AMP 121 120/Aban byg 01 Bernster) 240/31 09/30 22/03/18 17.30 00/88 POWESKID E31 AMP Berland Be | 122 | 404(Main bay of Patna Kishanganj 2) at Patna | 20/03/18 | 09:30 | 20/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | |
| 125 12/2017/L 09.30 22/02/16 09.30 22/02/16 17.30 0.008 POWREGND EAL AMP BirleL 12/2017/L 22/00/17 10.30 27/02/18 17.30 0.008 POWREGND EAL AMP BirleL BirleL 12/2017/L 22/00/17 10.00 27/02/18 17.30 0.008 POWREGND EAL AMP BirleL Bi | 123 | 409(Main bay 80 Bus reactor) at Patna | 22/03/18 | 09:30 | 22/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | |
| 121 2007 Bits cougher at Farms 26/07.16 97.30 2007 Wits Cougher at Farms 26/07.16 77.30 ODB POWERCED Exit AMP SERVIC 122 220 YA or A bragaul line 1 27/07.16 17.30 ODB POWERCED Exit AMP SERVIC SERVIC 129 220 YA or A bragaul line 2 25/07.18 1000 22/07.18 17.30 ODB POWERCED Exit AMP SERVIC SERVIC 130 400X Varbargam Sagardight 25/07.18 09.00 26/07.18 17.00 ODB Exit Stringing of 400X UDF Garaka kerst LUI O line at Sagardight WB 121 400X Varbargam Sagardight 25/07.18 09.00 26/07.18 17.00 ODB Exit Stringing of 400X UDF Garaka kerst LUI O line at Sagardight WB MB MB M | 125 | 412(Main bay ICT1) at Patna | 23/03/18 | 09:30 | 23/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | |
| 128 129 120 <td>120</td> <td>220KV Bus coupler at Patna</td> <td>26/03/18</td> <td>09:30</td> <td>26/03/18</td> <td>17:30</td> <td>ODB</td> <td>POWERGRID ER-I</td> <td>AMP</td> <td>BSPHCL</td> | 120 | 220KV Bus coupler at Patna | 26/03/18 | 09:30 | 26/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | BSPHCL |
| Inc. Inc. Control And Anglan may East of the state of the sta | 128 | 220 KV Ara khagaul line 1 | 27/03/18 | 10:00 | 27/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | BSPHCL |
| 131 400K Farakka-Sagardight 25/02/18 0.90 26/02/18 17.00 0.008 ER-II Stringing of 400K V/C/ Farakka.letral LUD line at Sagardight under WR 132 400K Varbacsgram-Sagardight 25/02/18 600 26/02/18 17.00 0.008 ER-II WR 134 200K VSE fantal Line by Subasgram 0.0318 68.00 0.030318 17.30 0.008 ER-II By AMP WR 134 200K VSE Standardine by Subasgram 0.030318 16.00 17.031 17.30 0.008 ER-II By AMP WR 135 100 MAR Rake Stand WSESCIL Standardine by Subasgram 19.0318 16.000 17.0318 17.30 0.028 ER-II 0.010 Kinstandardine by Subasgram WR 137 135 MAI CF1 by Subhasgram 19.0318 60.00 27.027.18 17.30 0.028 ER-II 0.010 Kinstandardine by Subasgram WR 138 10.400 KM Sadardardine Massarding Multine Raketard WSESCI 60.000 Kinstandardine Multine Massardine Mul | 129 | 400KV Berhampore Sagardighi Ckt-I | 25/03/18 | 08/00 | 25/02/18 | 17.30 | ODB | ER-II | Bay construction activity under ERSS-XV. | WB |
| 131 240XV Subhsagram-Sagardighi 25/02/18 090 26/02/18 17.00 ODB ER-II Bay AMP Wei 133 220XV ICE Parital Line by Subhsagram 02/03/18 0600 62/03/18 17.30 ODB ER-II Bay AMP Wei 134 220XV ICE CATE 29 Subhsagram 02/03/18 0600 62/03/18 17.30 ODB ER-II Bay AMP Wei 135 IOM WAR Bus Reactor at WBSTCL, IEEET S/s by 12/03/18 0600 15/03/18 17.30 OCB ER-II Replacement of Bushing replacement. Wei 135 SOMARA Sagardight Line Reactor at Subhsagram 26/03/18 0600 31/03/18 17.30 OCB ER-II NTAMC Adaptation rectury on ingration problem Wei 138 SOMARA Sagardight Line Reactor at Subhsagram 10/03/18 0600 06/03/18 17.00 OCB ER-II NTAMC Adaptation works including modification of existing scheme. Farakka Malds- 139 VACU Values-Farakka-II 06/03/18 0600 17/03/18 17.00 ODB ER-II | 131 | 400KV Farakka-Sagardighi | 25/02/18 | 09:00 | 26/02/18 | 17:00 | ODB | ER-II | Stringing of 400KV D/C Farakka Jeerat LILO line at Sagardighi under | WB |
| 131 20/07/16 08/00 02/03/18 08/00 ER/I Bay AMP WE 132 2007 WEG Bantala Ine by Subhasgram 03/03/18 03/03/18 17.30 DDB ER/I Bay AMP WE 133 100 MVAR Bus Reactor at WESTCL, Kerzt Sy Subhasgram 12/03/18 08/00 15/03/18 17.30 DDB ER/I Bay AMP WE 134 50 MVAR Sagardighi Line Reactor at WESTCL, Kerzt Sy Subhasgram 26/03/18 08/00 15/03/18 17.30 COB ER/I Replacement of Bushing of CGL Reactor WE 134 50 MVAR Sagardighi Line Reactor at WESTCL, Kerzt Sy Subhasgram 26/03/18 08/00 21/03/18 17.30 COB ER/I Sag Adjustment & Damaged Conductor Repairing at Loc No 86-87 WE 133 134 MARI-Humsen 06/03/18 08/00 06/03/18 17.00 COB ER/I Insultors replacement from Porcealin to Polymer. Faraka Mades- 14 00/V Mades-Farakka-II 07/03/18 08/00 11/03/18 17.00 COB ER/I Insultors replacement from Porcealin to Polymer. WE Paraka Mades- 14 00/V Mades-Farakka-II <td< td=""><td>132</td><td>400KV Subhasgram-Sagardighi</td><td>25/02/18</td><td>09:00</td><td>26/02/18</td><td>17:00</td><td>ODB</td><td>ER-II</td><td>LU22-VA</td><td>WB</td></td<> | 132 | 400KV Subhasgram-Sagardighi | 25/02/18 | 09:00 | 26/02/18 | 17:00 | ODB | ER-II | LU22-VA | WB |
| Instruction Construction Construction </td <td>133</td> <td>220KV KLC Bantala Line by Subhasgram</td> <td>02/03/18</td> <td>08:00</td> <td>02/03/18</td> <td>17:30</td> <td>ODB</td> <td>ER-II FR-II</td> <td>Bay AMP Bay AMP</td> <td>WB</td> | 133 | 220KV KLC Bantala Line by Subhasgram | 02/03/18 | 08:00 | 02/03/18 | 17:30 | ODB | ER-II FR-II | Bay AMP Bay AMP | WB |
| 12-15 Lobusty and the sector at Subhasgram WB 137 315 MVA KCT-LIP Subhasgram 19/03/18 08:00 31/03/18 17.30 OCB ER-II VIDE Subhasgram WB 138 132KV Rangit-Kurseong Ckt 27/02/18 07.00 27/02/18 17.30 OCB ER-II Sig Adjustment & Damaged Conductor Repairing at Loc No 86-57 WB 139 400kV Malda-Farakka-II 06/03/18 08:00 06/03/18 17.00 OCB ER-II Sig Adjustment & Damaged Conductor Repairing at Loc No 86-57 WB 141 400 kV Malda-Paraska-II 07/03/18 08:00 06/03/18 17.00 ODB ER-II Insulators replacement from Parcealin to Polymer Parcea shutdown 141 400 kV Mald-Parnea-I 10/03/18 08:00 17/03/18 17/00 ODB ER-II Insulators replacement from Parcealin to Polymer WB 143 15 MVA-ICT-II (00 / 220 kV) at Malda 16/03/18 08:00 | 134 | 100 MVAR Bus Reactor at WBSETCL, Jeerat S/s by | 12/03/10 | 08.00 | 15/03/10 | 17:30 | OCR | ER-II | Replacement of Bushing of CGL Reactor | |
| Instructure Construction Construction </td <td>126</td> <td>Subhasgram 50 MVAR Sagardighi Line Reactor at Subhasgram</td> <td>26/03/10</td> <td>08.00</td> <td>31/03/18</td> <td>17:30</td> <td>OCB</td> <td>FR-II</td> <td>HV Rushing replacement</td> <td>WB</td> | 126 | Subhasgram 50 MVAR Sagardighi Line Reactor at Subhasgram | 26/03/10 | 08.00 | 31/03/18 | 17:30 | OCB | FR-II | HV Rushing replacement | WB |
| 138 132kV Rangit-Kurseong Ckt 27/02/18 0.90 27/02/18 17.30 ODB ER-II Sag Adjustment & Danaged Conductor Repairing at Loc No 86-87 NB 139 400 kV Malda-Farakka-I 06/03/18 08:00 06/03/18 17.00 ODB ER-II NTAMC Adaptation works including modification of exsiting scheme. Parakka-Malda-Purnea-I 141 400 kV Malda-Farakka-II 07/03/18 08:00 17/03/18 17/00 ODB ER-II Insulators replacement from Porcealin to Polymer. Parakka-Malda-Purnea-I 10/03/18 08:00 11/03/18 17/00 ODB ER-II Insulators replacement from Porcealin to Polymer. Parakka-Malda-Purnea-I 10/03/18 08:00 11/03/18 17/00 ODB ER-II Insulators replacement from Porcealin to Polymer. WeB 143 315 MVA-ICT-II (400 /22 kV) at Malda 14/03/18 08:00 15/03/18 17/00 ODB ER-II Numerical Over Current Relay Retrofitting & Bucholz alarm to trip configuration FOR NTAMC WORK WB 144 315 MVA-ICT-II (220/132 kV) at Malda 16/03/18 17/00 ODB ER-II RLWAY ADAPT | 137 | 315 MVA ICT-I by Subhasgram | 19/03/18 | 08:00 | 23/03/18 | 17:30 | OCB | ER-II | OLTC inspection to rectify oil migration problem | WB |
| 139 400 kV Malda-Farakka-l 06/03/18 08:00 06/03/18 17:00 ODB ER-II NTAMC Adaptation works including modification of exsiting scheme. Farakka-Malda-Parakka-Malda-Parakka-H 140 400 kV Malda-Farakka-II 07/03/18 08:00 106/03/18 17:00 ODB ER-II NTAMC Adaptation works including modification of exsiting scheme. Farakka-Malda-Parakka-H 141 400 kV Malda-Farakka-II 10/03/18 06:00 11/03/18 17:00 ODB ER-II Insulators replacement from Porcealin to Polymer. Pures shutdown wite clubbed 142 400 kV Malda-Furnea-II 12/03/18 06:00 11/03/18 17:00 ODB ER-II Insulators replacement from Porcealin to Polymer. 143 315 MVA-ICT-II (400 /220 kV) at Malda 14/03/18 17:00 IN ODB ER-II Numerical Over Current Relay Retrofitting & Bucholz alarm to trip configuration FOR NTAMC WORK WB 144 315 MVA-ICT-II (200 /220 kV) at Malda 15/03/18 08:00 17/03/18 17:00 ODB ER-II Numerical Over Current Relay Retrofitting & Bucholz alarm to trip configuration FOR NTAMC WORK WB | 138 | 132kV Rangit-Kurseong Ckt | 27/02/18 | 09:00 | 27/02/18 | 17:30 | ODB | ER-II | Sag Adjustment & Damaged Conductor Repairing at Loc No 86-87 | WB |
| Image: constraint of the state of | 139 | 400 kV Malda-Farakka-l | 06/03/18 | 08:00 | 06/03/18 | 17:00 | ODB | ER-II | NTAMC Adaptation works including modification of exsiting scheme. | Farakke Malda |
| 141 400 KV Maid-Purnea-I 10/03/18 08:00 11/03/18 17:00 ODB ER-II Insulators replacement from Porcealin to Polymer. 142 400 KV Maid-Purnea-II 12/03/18 08:00 12/03/18 17:00 ODB ER-II Insulators replacement from Porcealin to Polymer. 143 315 MVA-ICT-III (400 /220 KV) at Malda 14/03/18 08:00 14/03/18 17:00 ODB ER-II Insulators replacement from Porcealin to Polymer. WB 144 315 MVA-ICT-VI (400 /220 KV) at Malda 15/03/18 08:00 15/03/18 17:00 ODB ER-II Numerical Over Current Relay Retrofitting & Bucholz alarm to trip configuration FOR NTAMC WORK WB 145 50 MVA ICT-IV (20/132 KV) at Malda 16/03/18 08:00 16/03/18 17:00 ODB ER-II Numerical Over Current Relay Retrofitting & Bucholz alarm to trip configuration FOR NTAMC WORK WB 146 160 MVA ICT-IV (20/132 KV) at Malda 17/03/18 08:00 17/03/18 12:00 ODB ER-II RELAV ADAPTION WORK FOR NTAMC WORK WB 147 160 MVA ICT-II (220/132 KV) at Malda 17/03/ | 140 | 400 kV Malda-Farakka-II | 07/03/18 | 08:00 | 06/03/18 | 17:00 | ODB | ER-II | NTAMC Adaptation works including modification of exsiting scheme. | Punrea shutdown will be clubbed |
| 142 400 KV MalocPumea-III 12/03/18 12/03/18 17.00 ODB ER-II Insulators replacement from Porceatin to Polymer. End of the state of th | 141 | 400 KV Mald-Purnea-I | 10/03/18 | 08:00 | 11/03/18 | 17:00 | ODB | ER-II | Insulators replacement from Porcealin to Polymer. | |
| 143 15 M WARLEL IIII (400 / 220 KV) at Malda 14/03/18 12/00 14/03/18 17/00 ER-II configuration FOR NTAMC WORK WB 144 315 MVA-ICT-V (400 / 220 KV) at Malda 15/03/18 08:00 15/03/18 17:00 ODB ER-II Numerical Over Current Relay Retrofitting & Bucholz alarm to trip configuration FOR NTAMC WORK WB 145 50 MVA ICT-IV (220/132 KV) at Malda 16/03/18 08:00 16/03/18 17:00 ODB ER-II Numerical Over Current Relay Retrofitting & Bucholz alarm to trip configuration FOR NTAMC WORK WB 146 160 MVA ICT-IV (220/132 KV) at Malda 17/03/18 08:00 17/03/18 12:00 ODB ER-II RELAY ADAPTION WORK FOR NTAMC WORK WB 147 160 MVA ICT-IIV (220/132 KV) at Malda 17/03/18 13:00 17/03/18 17:00 ODB ER-II RELAY ADAPTION WORK FOR NTAMC WORK WB 148 400kV MTN Meja-1 line 03/03/18 07:00 05/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 150 400kV MTN Meja-3 line 07/03/18 | 142 | 400 KV Mald-Purnea-II | 12/03/18 | 00:80 | 12/03/18 | 17:00 | ODB | ER-II | Insulators replacement from Porcealin to Polymer. Numerical Over Current Relay Retrofitting & Bucholz alarm to trip | |
| 144 315 MVA-ICT-V (400 / 220 kV) at Malda 15/03/18 08:00 15/03/18 17:00 ODB ER-II Numerical Over Current Relay Retroiting & Buchoz alarm to thp configuration FOR NTANC WORK WB 145 50 MVA ICT-IV (220/132 kV) at Malda 16/03/18 08:00 16/03/18 17:00 ODB ER-II Numerical Over Current Relay Retroiting & Buchoz alarm to thp configuration FOR NTANC WORK WB 146 160 MVA ICT-IV (220/132 kV) at Malda 17/03/18 13:00 17/03/18 12:00 ODB ER-II Numerical Over Current Relay Retroiting & Buchoz alarm to trip configuration FOR NTANC WORK WB 147 160 MVA ICT-IV (220/132 kV) at Malda 17/03/18 13:00 17/03/18 17:00 ODB ER-II RELAV ADAPTION WORK FOR NTAMC WORK WB 148 400kV MTN Melja-1 line 03/03/18 07:00 05/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 149 400kV MTN Melja-3 line 07/03/18 09:00 07/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC | 143 | 515 WVA-ICT-III (4007220 KV) at Maida | 14/03/18 | 08:00 | 14/03/18 | 17:00 | | ER-11 | configuration FOR NTAMC WORK | WB |
| International construction Construction <th< td=""><td>144</td><td>315 MVA-ICT-V (400 /220 kV) at Malda</td><td>15/03/18 16/03/18</td><td>08:00 08:00</td><td>15/03/18 16/03/18</td><td>17:00 17:00</td><td>ODB</td><td>ER-II ER-II</td><td>configuration FOR NTAMC WORK Numerical Over Current Relay Retrofitting & Bucholz alarm to trip</td><td>WB</td></th<> | 144 | 315 MVA-ICT-V (400 /220 kV) at Malda | 15/03/18 16/03/18 | 08:00 08:00 | 15/03/18 16/03/18 | 17:00 17:00 | ODB | ER-II ER-II | configuration FOR NTAMC WORK Numerical Over Current Relay Retrofitting & Bucholz alarm to trip | WB |
| 11:00:MINUS LICENCE ALCONNECTION VICAN CONNECTION VICAN CONNECTINE VICAN CONNECTION VICAN CONNECTION VICAN CONNECTION V | 140 | 160 MV/A ICT_I (220/132 kV) at Malda | 17/02/19 | 08.00 | 17/02/19 | 12.00 | ODB | FR-II | CONFIGURATION FOR NTAME WORK | WB |
| 148 400kV MTN Mejia-1 line 03/03/18 09:00 03/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 149 400kV MTN Mejia-2 line 05/03/18 09:00 05/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 151 400kV MTN Mejia-2 line 07/03/18 09:00 07/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 151 400kV Maithon-Jamshedpur 07/03/18 07:03 0DB ER-II Insulator replacement due to damage by miscreants. DVC 152 400kV Maithon-Jamshedpur 09/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 153 500MVA, ICF-1 at Maithon SS 15/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 154 400kV Maithon-Kahalgaon Line 1 17/03/18 10:00 15/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC <td>140</td> <td>160 MVA ICT-II (220/132 kV) at Malda</td> <td>17/03/18</td> <td>13:00</td> <td>17/03/18</td> <td>17:00</td> <td>ODB</td> <td>ER-II</td> <td>RELAY ADAPTION WORK FOR NTAMC WORK</td> <td>WB</td> | 140 | 160 MVA ICT-II (220/132 kV) at Malda | 17/03/18 | 13:00 | 17/03/18 | 17:00 | ODB | ER-II | RELAY ADAPTION WORK FOR NTAMC WORK | WB |
| 17.1 Desk Frince Induction 0070/10 07.00 0070/10 17.30 Outpoint Instruction replacement Outpoint DVC 150 400KV MTM Mejia-3 line 07/03/18 07/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 151 400KV Maithon-Jamshedpur 12/03/18 09:00 13/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 152 400KV Mejia-Jamshedpur 09/03/18 09:00 99/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 153 500MVA, ICT-1 at Maithon SS 15/03/18 10:00 17/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 153 500MVA, ICT-1 at Maithon SS 15/03/18 10:00 17/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 154 400KV Maithon-Kahalgaon Line 2 17/03/18 10:00 17/03/18 13:00 ODB E | 148 | 400kV MTN Mejia-1 line | 03/03/18 | 09:00 | 03/03/18 | 17:30 | ODB | ER-II FR-II | Insulator replacement due to damage by miscreants. | DVC |
| 151 400KV Maithon-Jamshedpur 12/03/18 09:00 13/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 152 400KV Mejia-Jamshedpur 09/03/18 09:00 99/03/18 17:30 ODB ER-II Insulator replacement due to damage by miscreants. DVC 153 500MVA, ICT-1 at Maithon SS 15/03/18 10:00 17/03/18 17:30 ODB ER-II Onload testing of CSD and validation of OFS DVC 154 400KV Maithon-Kahalgaon Line 1 17/03/18 10:00 17/03/18 13:00 ODB ER-II Retrofitting of Diff relay (Upgradation to IEC61850 compliance relay). 155 400KV Maithon-Kahalgaon Line 2 19/03/18 10:00 19/03/18 13:00 ODB ER-II Retrofitting of Diff relay (Upgradation to IEC61850 compliance relay). 155 400KV Maithon-Kahalgaon Line 2 19/03/18 10:00 19/03/18 13:00 ODB ER-II Retrofitting of Diff relay (Upgradation to IEC61850 compliance relay). 156 400KV 125MVA Bus Reactor-2 at Maithan 23/03/18 10:00 23/03/18 17:00 ODB ER-II GD replacement due to configuration chan | 149 | 400kV MTN Mejia-3 line | 07/03/18 | 09:00 | 07/03/18 | 17:30 | ODB | ER-II | Insulator replacement due to damage by miscreants. | DVC |
| 125 125 <td>151</td> <td>400KV Maithon-Jamshedpur</td> <td>12/03/18</td> <td>09:00</td> <td>13/03/18</td> <td>17:30</td> <td>ODB</td> <td>ER-II</td> <td>Insulator replacement due to damage by miscreants.</td> <td>DVC</td> | 151 | 400KV Maithon-Jamshedpur | 12/03/18 | 09:00 | 13/03/18 | 17:30 | ODB | ER-II | Insulator replacement due to damage by miscreants. | DVC |
| 154 400KV Maithon-Kahalgaon Line 1 17/03/18 10:00 17/03/18 13:00 ODB ER-II Retrofitting of Diff relay (Upgradation to IEC61850 compliance relay). 155 400KV Maithon-Kahalgaon Line 2 19/03/18 10:00 19/03/18 13:00 ODB ER-II Retrofitting of Diff relay (Upgradation to IEC61850 compliance relay). 156 400KV 125MVA Bus Reactor-2 at Maithan 23/03/18 10:00 23/03/18 17:00 ODB ER-II GD replacement due to configuration change. | 152 | 500MVA, ICT-1 at Maithon SS | 09/03/18 15/03/18 | 09:00 10:00 | 09/03/18 15/03/18 | 17:30 | | ER-II | Onload testing of CSD and validation of OFS | DVC |
| 155 400KV Maithon-Kahalgaon Line 2 19/03/18 10:00 19/03/18 13:00 ODB ER-II Retrofitting of Diff relay (Upgradation to IEC61850 compliance relay). 156 400kV 125MVA Bus Reactor-2 at Maithan 23/03/18 10:00 23/03/18 17:00 ODB ER-II GD replacement due to configuration change. | 154 | 400KV Maithon-Kahalgaon Line 1 | 17/03/18 | 10:00 | 17/03/18 | 13:00 | ODB | ER-II | Retrofitting of Diff relay (Upgradation to IEC61850 compliance relay). | |
| 156 400kV 125MVA Bus Reactor-2 at Maithan 23/03/18 10:00 23/03/18 17:00 ODB ER-II GD replacement due to configuration change. | 155 | 400KV Maithon-Kahalgaon Line 2 | 19/03/18 | 10:00 | 19/03/18 | 13:00 | ODB | ER-II | Retrofitting of Diff relay (Upgradation to IEC61850 compliance relav). | 1 |
| | 156 | 400kV 125MVA Bus Reactor-2 at Maithan | 23/03/18 | 10:00 | 23/03/18 | 17:00 | ODB | ER-II | GD replacement due to configuration change. | |

| 157 | 10E MIVAD Due Decetor 3 at Durronur | 0/ /02 /10 | 00.00 | 0/ /02 /10 | 17.00 | ODD | ED II | EF commissioning holonoo worke under DUEL (EDCC IV) | |
|---|---|--|--|--|---|--|--|---|--|
| 157 | 125 MVAR-BUS REACTOR 2 at Durgapur | 14/02/18 | 09:00 | 14/02/18 | 17:00 | ODB | EK-II | FF commissioning balance works under BHEL (ERSS-IX) | |
| 158 | 125MVAR BUS REACTOR-3 at Durgapur | 14/03/18 | 09:00 | 14/03/18 | 17:00 | ODB | ER-II | FF commissioning balance works under BHEL (ERSS-IX) | |
| 160 | 30 NVAR Bus Reactor-Fat Durgapur | 00/03/18 | 09:00 | 00/03/18 | 17:00 | ODB | EK-II | FF COMMISSIONING Datatice works under EDEC VV/II | |
| 160 | 400 KV Mathon #2 line by Durgapur | 1(/02/10 | 09:00 | 1/ /02 /10 | 17:00 | ODB | ER-II | LBB relay modification work under ERSS-XVII. | |
| 162 | 400 KV Bidhappagar line II by Durgapur | 26/02/19 | 09.00 | 26/02/18 | 17:00 | ODB | ER-II ED II | CVT & LA shifting in new foundation & AP shocking | |
| 162 | 400 KV Maithon #1line by Durgapur | 20/03/10 | 09.00 | 20/03/10 | 17:00 | ODB | ED II | A/P checking | |
| 164 | 220KV BIRPARA -NSI G-I | 12/03/18 | 08:00 | 13/02/18 | 17:30 | ODB | FR-II | For fitting of Arcing Horn and tightening checking, of lumpers | |
| 165 | 220KV BIRPARA -NSLG-II | 15/03/18 | 08:00 | 16/03/18 | 17:30 | ODB | ER-II | For fitting of Arcing Horn and tightening checking of Jumpers. | |
| 166 | 400KV D/C New Siliguri - New Purnea-I | 13/03/18 | 09:00 | 14/03/18 | 17:00 | ODB | ER-II | Balance insulator replacement | |
| 167 | 400KV D/C New Siliguri - New Purnea-II | 15/03/18 | 09:00 | 16/03/18 | 17:00 | ODB | ER-II | Balance insulator replacement | |
| 168 | 220KV DLK-K'GANJ-I | 20/03/18 | 09:00 | 21/03/18 | 17:00 | ODB | ER-II | BAY & Line MTC at Dalkhola | |
| 169 | 220KV DLK-K'GANJ -II | 22/03/18 | 09:00 | 23/03/18 | 17:00 | ODB | ER-II | BAY & Line MTC at Dalkhola | |
| 170 | 220KV DLK-DLK -I | 27/03/18 | 09:00 | 27/03/18 | 17:00 | ODB | ER-II | BAY MTC at Dalkhola | WB |
| 171 | 220KV DLK-DLK -II | 28/03/18 | 09:00 | 28/03/18 | 17:00 | ODB | ER-II | BAY MTC at Dalkhola | WB |
| 172 | 220 KV Binaguri-Birpara Ckt-1 | 01/03/18 | 09:00 | 02/03/18 | 17:00 | OCB | ER-II | Line AMP works | WB |
| 173 | 220 KV Binaguri-Birpara Ckt-2 | 03/03/18 | 09:00 | 04/03/18 | 17:00 | OCB | ER-II | Line AMP works | WB |
| 174 | 132 KV Kursoeng-Rangit S/c Line | 07/03/18 | 09:00 | 15/02/18 | 17:00 | OCB | ER-II | Insulator Replacemnt | WB |
| 175 | 220 KV Siliguri - Kishangang Ckt-1 | 19/03/18 | 09:00 | 19/03/18 | 17:00 | OCB | ER-II | Line AMP works | WB |
| 176 | 220 KV Siliguri-Kishangang Ckt-2 | 20/03/18 | 09:00 | 20/03/18 | 17:00 | OCB | ER-II | Line AMP works | |
| 177 | 400 KV ICT#1 at Binaguri | 15/03/18 | 09:00 | 15/03/18 | 17:00 | ODB | ER-II | Back up O/C Relay Replacement | |
| 178 | 400 KV ICT#2 at Binaguri | 16/03/18 | 09:00 | 16/03/18 | 17:00 | ODB | ER-II | Back up O/C Relay Replacement | |
| 179 | 400 KV Binaguri-Rangpo Line-1 & Bus-1 | 20/03/18 | 08:00 | 21/03/18 | 12:00 | ODB | ER-II | Strung Bus Replacement | |
| 180 | 400 KV TEESTA -III-Rangpo LINE | 01/03/18 | 11:00 | 01/03/18 | 15:00 | ODB | ER-II | For SAS Configuration change. | |
| 181 | 132KV BUS SECTIONALISER-I At Rangpo | 22/03/18 | 09:00 | 22/03/18 | 17:00 | ODB | ER-II | BAY AMP | |
| 182 | 410 Main Bay of 400KV Berhampore Sagardighi Ckt-II at BHP | 26/02/18 | 09:00 | 26/02/18 | 18:00 | ODB | ER-II | BAY AMP WORK | |
| 400 | | | | 0.000.000 | 17.00 | 000 | 50 U | | |
| 183 | 50 MVA ICT-I at Gangtok | 06/03/18 | 09:00 | 06/03/18 | 17:00 | ODB | ER-II | IEC 61850 COMPLIANT RELAY COMMISSIONING. | SIKKIM |
| 184 | ou ivivA ICI-II at Gangtok | 09/03/18 | 09:00 | 09/03/18 | 17:00 | ODB | EK-II ED II | IEL O 183U CUIVIPLIANT KELAY CUMMISSIONING. | SIKKIIVI |
| 165 | oo kiy Lagyap Gangtok | 13/03/18 | 09:00 | 13/03/18 | 17:00 | ODB | ER-II ED II | | SIKKIIVI |
| 100 | 66 KV Rubulay Capatek | 15/02/10 | 00.00 | 14/03/18 | 17:00 | | EN-II ED II | | |
| 10/ | | 10/03/18 | 09:00 | 13/03/18 | 17:00 | UDB | EN-II FR-II | | JINNIVI |
| 188 | 132 KV SLG-WBSEB-II | 26/02/18 | 10:00 | 26/02/18 | 13:00 | ODB | EIX-11 | Hot spot in dropper connecting to jack bus in 132KV SLG-WBSEB-II | W/D |
| 100 | | 10/02/10 | 10.00 | 10/02/19 | 17.00 | ODP | FR-II | | VVD DVC |
| 100 | | 04/02/10 | 10:00 | 05/02/18 | 17:00 | ODB OCP | ED II | Poplacement of old relays with IEC compliant relay | DVC |
| 101 | | 04/03/18 | 10.00 | 07/03/18 | 17.00 | 900 | ER-II | Replacement of old relays with IEC compliant relay. | + |
| 102 | 132 KV MALDA-MALDA-I | 08/03/10 | 10.00 | 08/03/10 | 17:00 | ODB | ER-II | Replacement of old relays with IEC compliant relay. | |
| 172 | 132 KV MALDA-MALDA-II | 00/03/10 | 10.00 | 00/03/10 | 17.00 | ODB | ER-II | Deplecement of old relays with IEC | |
| 193 | 132 RV WAEDA WAEDA II | 09/03/18 | 10:00 | 09/03/18 | 17:00 | ODD | ERT | Replacement of old relays with IEC compliant relay. | WB |
| 194 | 400 KV BUS COUPLER AT MALDA | 10/03/18 | 10:00 | 11/03/18 | 17:00 | ODB | ER-II | NTAMC adaptation works for BCU/RTU. | WB |
| 195 | 220 KV BUS COUPLER AT MALDA | 12/03/18 | 10:00 | 13/03/18 | 17:00 | ODB | ER-II | NTAMC adaptation works for BCU/RTU. | |
| 196 | 160 MVA ICT#1 AT BIRPARA | 13/03/18 | 10:00 | 13/03/18 | 17:00 | ODB | ER-II | NTAMC adaptation works for BCU/RTU. | WB |
| 197 | 160 MVA ICT#2 AT BIRPARA | 14/03/18 | 10:00 | 14/03/18 | 17:00 | ODB | ER-II | NTAMC adaptation works for BCU/RTU. | WB |
| 198 | 220 KV MAITHON-DHANBAD-II | 02/03/18 | 10:00 | 02/03/18 | 17:00 | ODB | ER-II | NTAMC adaptation works for BCU/RTU. | DVC |
| 199 | 220 KV MALIHON-DHANBAD-I | 03/03/18 | 10:00 | 03/03/18 | 17:00 | ODB | ER-II | NTAMC adaptation works for BCU/RTU. | DVC |
| 200 | 400 KV Binaguri-Bongaigaon-I | 15/03/18 | 10:00 | 21/03/18 | 17:00 | OCB | ER-II | CONDUCTOR REPLACEMENT DUE TO THEFT | NLDC |
| 201 | 400 KV Binayun-Bongaiyaon-Ii | 22/03/18 | 10:00 | 30/03/18 | 17:00 | ULB | ER-II | CONDUCTOR REPLACEMENT DUE TO THEFT | NLDC |
| 202 | 215 MVA ICT 1 & 220kV Main Rus 2, AT Alinurduar | 01/02/19 | 08.00 | 02/02/19 | 19.00 | OCB | EK-II | R ph CB alignment not proper to be adjusted (Pole to be dismantled | |
| 202 | STSTOTIVATION - LA 220KV IVIAILI BUS 2 AT Alipuruuai | 01/03/18 | 06.00 | 02/03/16 | 10.00 | UCB | | and structure alignment to be adjusted) | |
| 203 | 400kV Bus Section 24 at Alinurduar | 05/03/18 | 08:00 | 05/03/18 | 16:00 | ODB | FR-II | Replacement of damaged BPI (B - ph) of Bus Section 24 | |
| 200 | Poole All All such as Calabeth Olds | 03/03/10 | 00.00 | 03/03/10 | 10.00 | 000 | LICH | Replacement of damaged bir (b - ph) of bus section 2A | |
| 204 | ZZUKV AUDURDUAR - SAIAKATU UKT - L | 06/03/18 | 10.00 | 06/03/18 | 13.00 | ODB | FR-II | Replacement of damaged Bird Guard of WT | NEDC |
| 204 | 220KV Alipurduar - Salakati Ckt - 1 220KV Alipurduar - Salakati Ckt - 1 | 07/03/18 | 10:00 | 06/03/18 | 13:00 13:00 | ODB ODB | ER-II FR-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT | NLDC NLDC |
| 204 205 206 | 220kV Alipurduar - salakati Ckt - 1 220kV Alipurduar - Salakati Ckt - 11 400 KV Farakka- Sagardighi TI | 06/03/18 07/03/18 27/02/18 | 10:00 10:00 09:00 | 06/03/18 07/03/18 27/02/18 | 13:00 13:00 18:00 | ODB ODB ODB | ER-II ER-II FR-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP | NLDC NLDC WB |
| 204 205 206 207 | 220kV Alipurduar - Salakati (kt - 1 220kV Alipurduar - Salakati (kt - 11 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-11 TL | 06/03/18 07/03/18 27/02/18 05/03/18 | 10:00 10:00 09:00 09:00 | 06/03/18 07/03/18 27/02/18 05/03/18 | 13:00 13:00 18:00 18:00 | ODB ODB ODB ODB | ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP | NLDC NLDC WB |
| 204 205 206 207 | ZOW Alipurduar - Salakati Ckt - 1 ZOW Alipurduar - Salakati Ckt - 1 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL | 06/03/18 07/03/18 27/02/18 05/03/18 | 10:00 10:00 09:00 09:00 | 06/03/18 07/03/18 27/02/18 05/03/18 | 13:00 13:00 18:00 18:00 | ODB ODB ODB ODB | ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For | NLDC NLDC WB |
| 204 205 206 207 208 | 220kV Alipurduar - Salakati Ckt - 1 220kV Alipurduar - Salakati Ckt - 1 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka | 06/03/18 07/03/18 27/02/18 05/03/18 | 10:00 10:00 09:00 09:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 | 13:00 13:00 18:00 18:00 16:00 | ODB ODB ODB ODB ODB | ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For rinsmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For aumentation of BUS isolator from 2000A to 3150 A rating under ERSS- | NLDC NLDC WB |
| 204 205 206 207 208 | 220kV Allpurduar - Salakati Ckt - I 220kV Allpurduar - Salakati Ckt - II 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 | 10:00 10:00 09:00 09:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 | 13:00 13:00 18:00 18:00 16:00 | ODB ODB ODB ODB ODB | ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). | NLDC NLDC WB |
| 204 205 206 207 208 | 220kV Alipurduar - Salakati Ckt - 1 220kV Alipurduar - Salakati Ckt - 1 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Maia David 6400 KV Forsetic Kebelanan II (2001 20) | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 | 10:00 10:00 09:00 09:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 | 13:00 13:00 18:00 18:00 16:00 | ODB ODB ODB ODB ODB ODB | ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under | NEDC NEDC WB |
| 204 205 206 207 208 209 | 220K Alipurduar - Salakali CKt - I 220K Alipurduar - Salakali CKt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 | 10:00 10:00 09:00 09:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 | ODB ODB ODB ODB ODB ODB | ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. | NEDC NEDC WB |
| 204 205 206 207 208 209 | 220K Alipproduct - Salakati CKt - I 220K Alipproduct - Salakati CKt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 | 10:00 10:00 09:00 09:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 | ODB ODB ODB ODB ODB OCB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS isolator from 2000A to 3150 A rating under ERS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERS-XV projects. | NLDC NLDC WB |
| 204 205 206 207 208 209 210 | 200V Aliporduar - Salakati Ckt - I 200V Aliporduar - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farrak- Kahalgaon-II (Bay-33 & 34) | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 | 10:00 10:00 09:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB | ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. | NLDC NLDC WB |
| 204 205 206 207 208 209 210 | 220K Alipurduar - Salakati Ckt - I 220K Alipurduar - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-II (Bay-33 & 34) | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 | 10:00 10:00 09:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. | NLDC NLDC WB |
| 204 205 206 207 208 209 210 | 200K Valpurduar - Salakati Ckt - I 200K Valpurduar - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-II (Bay-33 & 34) | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 | 10:00 10:00 09:00 09:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) | NLDC NLDC WB |
| 204 205 206 207 208 209 210 211 | ZOVX AlipUrduar - Salakati Ckt - I ZOVX AlipUrduar - Salakati Ckt - I ZOVX AlipUrduar - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farrak- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 06/03/18 | 10:00 10:00 09:00 09:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A to 3150 A | NLDC WB |
| 204 205 206 207 208 209 210 211 | 200K Valipurduar - Salakati Ckt - I 200K Valipurduar - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-II (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 06/03/18 | 10:00 10:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under RESS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. | NLDC NLDC WB |
| 204 205 206 207 208 209 210 211 | 200K Valipurdiar - Salakati Ckt - I 200K Valipurdiar - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-II (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 06/03/18 | 10:00 10:00 09:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. | NLDC WB |
| 204 205 206 207 208 209 210 211 211 | 200K Valipurduar - Salakati Ckt - I 200K Valipurduar - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-III line | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 06/03/18 07/03/18 | 10:00 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 08/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB ODB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-22 (Main Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay-30 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-AV projects. For disconnecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A | NLDC VB |
| 204 205 206 207 208 209 210 211 211 212 | ZOVK Alipurduar - Salakati CKt - I ZOVK Alipurduar - Salakati CKt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-III line | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 06/03/18 07/03/18 | 10:00 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 08/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. | NLDC NLDC WB |
| 204 205 206 207 208 209 210 211 211 212 212 | 200K Valipurduar - Salakati Kkt - I 200K Valipurduar - Salakati Kkt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-II line 50 MVAR Bus Reactor-II at Farakka | 06/03/18 07/03/18 05/03/18 06/03/18 06/03/18 06/03/18 07/03/18 08/03/18 | 10:00 10:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 08/03/18 08/03/18 | 13:00 13:00 18:00 16:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB ODB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay-of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. | NLDC WB |
| 204 205 206 207 208 209 210 211 211 212 213 | 200K Valipurduar - Salakati Ckt - I 200K Valipurduar - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-II line 50 MVAR Bus Reactor-II at Farakka | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 06/03/18 07/03/18 08/03/18 26/03/18 | 10:00 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 08/03/18 08/03/18 | 13:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB ODB OCB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For installation of new CB and other associated work for Bus Reactor-II to make Bus Reactor-II switchable. | NLDC VB |
| 204 205 206 207 208 209 210 211 211 212 213 | ZOVK Valpurduar - Salakati CKt - I ZOVK Valpurduar - Salakati CKt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Nahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-II (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-II line 50 MVAR Bus Reactor-II at Farakka | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 06/03/18 06/03/18 07/03/18 08/03/18 26/03/18 | 10:00 10:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 07/03/18 08/03/18 20/04/18 | 13:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB ODB OCB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For Isstallation of new CB and other associated work for Bus Reactor-II to make Bus Reactor-II switchable. For connecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) | NLDC WB |
| 204 205 206 207 208 209 210 211 212 212 213 214 | 200K Valpurduar - Salakati Kk - I 200K Valpurduar - Salakati Kk - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV BuS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-II (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-II line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-II line | 06/03/18 07/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 26/03/18 26/03/18 | 10:00 10:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 08/03/18 20/04/18 31/03/18 | 13:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB ODB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For disconnecting BUS isolator of bay no-22 & 33 from BUS-I (For augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-34 (Tie Eay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For Installation of new CB and other associated work for Bus Reactor-II to make Bus Reactor-II switchable. For connecting bay-22 (cinc for the CS) (for the CS) (for the CS) (for the CS) for installation of new CB and other associated work for Bus Reactor-II to make Bus Reactor-II switchable. | NLDC WB |
| 204 205 206 207 208 209 210 211 211 212 213 214 | 200K Valipurduar - Salakati Kkt - I 200K Valipurduar - Salakati Kkt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Nurgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-III line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-III line | 06/03/18 07/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 08/03/18 26/03/18 | 10:00 10:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 08/03/18 20/04/18 31/03/18 | 13:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB ODB OCB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Tiransmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS- YV projects. For disconnecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-YV projects. For disconnecting bay-32 (Io Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-YV projects. For installation of new CB and other associated work for Bus Reactor-II to make Bus Reactor-II switchable. For connecting bay-32 (Iwain Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-YV projects. For installation of new CB and other associated work for Bus Reactor-II to make Bus Reactor-II switchable. For connecting bay-32 (IW Bray of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-YV projects. | NLDC VB |
| 204 205 200 207 208 209 210 211 212 211 212 213 214 | ZOVK Valpurduar - Salakati CKt - I ZOVK Valpurduar - Salakati CKt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-II (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-II line | 06/03/18 27/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 08/03/18 26/03/18 | 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 07/03/18 08/03/18 20/04/18 31/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB ODB ODB ODB | ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II ER-II | Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-24 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-24 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT fro | NLDC WB |
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| 2004 2005 2006 2007 2008 2009 210 211 212 212 213 214 215 216 217 218 | ZUK V Alipurduar - Salakati Kk - I ZUK V Alipurduar - Salakati Kk - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Suprapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV BUS-I of NTPC Farakka Main Bay of 400 KV Farraka- Kahalgaon-III (Bay-32) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-II line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-III line 400 KV BuS-I of NTPC Farakka 132 KV BIRPARA-BIRPARA-I 134 KV BIRPARA-B | 06/03/18 07/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 07/03/18 26/03/18 26/03/18 31/03/18 01/04/18 02/04/18 20/03/18 | 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 08/03/18 08/03/18 20/04/18 31/03/18 01/04/18 02/04/18 | 13:00 13:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 18:00 | ODB ODB ODB ODB ODB OCB OCB ODB ODB ODB ODB ODB ODB ODB | 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-II ER-II | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Tiransmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For augmentation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Buy-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Buy-34 (The Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting BUS solator of bay no-22 & 33 to BUS-11 (After augmentation of BUS Isolator of bay no-22 & 33 to BUS-11 (After augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). FOR VARIABLE FREQUENCY TAN DELTA MEASURMENT FOR VARIABLE FREQUENCY TAN DELTA MEASURMENT | NLDC WB WB WB WB WB |
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| 2004 2005 2007 2008 2009 2100 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2119 | 200K Valpurduar - Salakati Kk - I 200K Valpurduar - Salakati Kk - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Surgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Surgapur-II TL 400 KV Farakka- Surgapur-II TL 400 KV Farakka- Kahalgaon-II (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-II (Bay-33 & 34) 400 KV Farraka- Kahalgaon-II line 400 KV Farraka- Kahalgaon-II line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-III line 400 KV BuS-I of NTPC Farakka 132 KV BIRPARA-BIRPARA-I 132 KV BIRPARA-BIRPARA-II 133 KV BIRPARA-BIRPARA-II 140 KV KA KARARAARA-II 15 | 06/03/18 07/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 07/03/18 26/03/18 31/03/18 01/04/18 02/04/18 20/03/18 20/03/18 | 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 00:00 10:00 10:00 10:00 00:00 10 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 07/03/18 08/03/18 08/03/18 20/04/18 31/03/18 01/04/18 02/04/18 22/03/18 22/03/18 | 13:00 13:00 18:00 18:00 16:00 18:00 | ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | ER-III | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For Installation of new CB and other associated work for Bus Reactor-II from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For Installation of new CB and other associated work for Bus Reactor-II from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Buy-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Buy Stolator from 2000A to 3150 A rating under ERSS- XV projects. </td <td>NLDC WB WB WB WB WB</td> | NLDC WB WB WB WB WB |
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| 2004 2005 2006 2007 2008 2009 2100 2111 2112 2113 2114 2115 2116 2117 2118 2119 2210 2211 2220 2221 2221 2222 2223 2224 | 200V Alipproduct - Salakati Ckt - I 200V Alipproduct - Salakati Ckt - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Sagardighi TL 400 KV Farakka- Surgapur-II TL 400 KV Farakka- Sagardighi TL 400 KV Farakka- Kahalgaon-III (Bay-32) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-III line 400 KV Farraka- Kahalgaon-III line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-III line 400 KV BuS-I of NTPC Farakka 132 KV BIRPARA-BIRPARA-I 132 KV BIRPARA-BIRPARA-II | 06/03/18 05/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 01/03/18 02/04/18 20/03/18 02/03/18 02/03/18 03/03/18 03/03/18 09/03/18 09/03/18 10/03/18 13/03/18 | 10:00 10:00 00:00 00:00 00:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 00:00 09:00 09:00 09:00 09:00 09:00 08:00 08:00 08:00 | 06/03/18 07/03/18 27/02/18 05/03/18 06/03/18 31/03/18 31/03/18 08/03/18 08/03/18 08/03/18 20/04/18 20/04/18 02/04/18 02/04/18 20/03/18 15/03/18 01/03/18 02/03/18 03/03/18 09/03/18 10/03/18 | 13:00 13:00 18:00 | ODB ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For installation of new Can do ther associated work for Bus Reactor-II for make Bus Reactor-II switchable. For connecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Bay-32 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Buy-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) form line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Buy-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) form line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Buy-34 | NLDC NLDC WB WB WB WB WB WB GRIDCO GRIDCO GRIDCO |
| 2004 2005 2006 2007 2008 2009 2100 2111 2122 213 214 215 216 217 218 219 2200 2211 2222 223 224 225 226 227 | 200V Alipproduct - Salakati Kk - I 200V Alipproduct - Salakati Kk - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Surgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Surgapur-II TL 400 KV Farakka- Surgapur-II TL 400 KV Farakka- Surgapur-II TL 400 KV Faraka- Kahalgaon-III (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-III line 400 KV Farraka- Kahalgaon-III line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-III line 400 KV BUS-I of NTPC Farakka 132 KV BIRPARA-BIRPARA-I 132 KV BIRPARA-BIRPARA-II 132 KV BIRPARA-BIRPARA-II 132 KV BIRPARA-BIRPARA-II 14 od 400KV Bus Reactor-I& Future at Sundargarh 16 Bay-414 of 400KV Bus Reactor-I& Future at Sundargarh 16 Bay-417 of 400KV Bus Reactor-I& Future at Sundargarh 400KV PANDIABILI - MENDHASAL CKT#-I 400KV PANDIABILI - MENDHASAL CKT#-II 400KV PANDIABILI - MENDHASAL CKT#-II | 06/03/18 05/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 08/03/18 01/03/18 02/04/18 20/03/18 20/03/18 02/04/18 02/03/18 02/03/18 09/03/18 09/03/18 10/03/18 10/03/18 10/03/18 20/03/18 09/03/18 09/03/18 10/03/18 13/03/18 | 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 09:00 09:00 09:00 09:00 08:00 08:00 08:00 08:00 09:00 | 06/03/18 07/03/18 27/02/18 07/03/18 05/03/18 31/03/18 31/03/18 07/03/18 07/03/18 08/03/18 20/04/18 31/03/18 01/04/18 02/04/18 20/03/18 15/03/18 01/03/18 02/03/18 09/03/18 09/03/18 10/03/18 | 13:00 13:00 18:00 | ODB ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | ER-II ER-II ER-II ER-II/Odisha/Rengali ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects. For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS- XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For Installation of new equipment in Bay-34 (Tie Cay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For Installation of new CB and other associated work for Bus Reactor-II to make Bus Reactor-II switchable. For connecting bay-32 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting BUS Isolator for D000A to 3150 A rating under ERSS-XV projects. FOR VARIABLE FREQUENCY TAN DELTA MEASURMENT FOR AMP Work AMP Work AMP Work AMP Work Replacement of CVT connector to reduce load on CVT under system | NLDC NLDC WB WB WB WB WB WB WB GRIDCO GRIDCO GRIDCO |
| 2004 2005 2006 2007 2008 2009 2100 2111 2122 213 214 215 216 217 218 219 220 221 222 2223 224 2225 2226 2227 | 200V Alipproduct - Salakati Kk - I 200V Alipproduct - Salakati Kk - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Sugardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Barakka- Sugardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Sugardighi TL 400 KV Farakka- Supagardighi TL 400 KV Farakka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-III line 400 KV Farraka- Kahalgaon-III line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-III line 400 KV BuS-I of NTPC Farakka 132 KV BIRPARA-BIRPARA-I 134 KV BIRPARA-BIRPARA-I 135 KV BIRPARA-BIRPARA-I< | 06/03/18 05/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 07/03/18 01/04/18 02/04/18 20/03/18 02/04/18 02/03/18 03/03/18 03/03/18 03/03/18 03/03/18 09/03/18 10/03/18 13/03/18 24/02/18 | 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 09:00 09:00 09:00 09:00 09:00 08:00 08:00 09:00 09:00 08:00 09:00 09:00 09:00 | 06/03/18 07/03/18 27/02/18 07/03/18 05/03/18 31/03/18 31/03/18 07/03/18 08/03/18 08/03/18 20/04/18 31/03/18 01/04/18 02/04/18 02/04/18 20/03/18 01/03/18 03/03/18 03/03/18 09/03/18 10/03/18 | 13:00 13:00 18:00 | ODB ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | ER-II ER-II ER-II/Odisha/Rengali ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of solator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS- Tor augmentation of new equipment in Bay-33 under ERSS- For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-32 (In Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-32 (In Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-32 (In Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Buy-35 (All Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting BUS Isolator of bay no-22 & 33 to BUS-11 (After augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). FOR VARIABLE FREQUENCY TAN DELTA MEASURMENT FOR AMP For AMP For AMP For AMP | NLDC NLDC WB WB WB WB WB WB WB WB GRIDCO GRIDCO GRIDCO GRIDCO MLDC |
| 2004 2005 2006 2007 2008 2009 2100 2111 2112 2113 2114 2115 2116 2117 2118 2119 2210 2211 2221 2221 2221 2221 2222 2223 2224 2225 2226 2226 2227 2228 | 200V Alipproduct - Salakati Kk - I 200V Alipproduct - Salakati Kk - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Kahalgaon-III (Bay-32) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-III line 400 KV BuS-I of NTPC Farakka 132 KV BIRPARA-BIRPARA-I 132 KV BIRPARA-BIRPARA-II | 06/03/18 05/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 01/03/18 02/04/18 02/03/18 02/03/18 02/03/18 02/03/18 03/03/18 09/03/18 09/03/18 10/03/18 13/03/18 24/02/18 24/02/18 | 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 09:00 09:00 09:00 09:00 08:00 08:00 08:00 09:00 09:00 | 06/03/18 07/03/18 27/02/18 07/03/18 05/03/18 31/03/18 31/03/18 07/03/18 08/03/18 08/03/18 20/04/18 20/04/18 02/04/18 02/04/18 20/03/18 15/03/18 01/03/18 01/03/18 03/03/18 09/03/18 10/03/18 10/03/18 10/03/18 10/03/18 | 13:00 13:00 18:00 | ODB ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting bay-32 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting BUS solator of bay no-22 & 33 to BUS-11 (After augmentation of BUS Isolator of bay no-22 & 33 to BUS-11 (After augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). FOR VARIABLE FREQUENCY TAN DELTA MEASURMENT FOR VARIABLE FREQUENCY TAN DELTA MEASURMENT FOR VARIABLE FREQUENCY TAN DELTA MEA | NLDC NLDC WB WB WB WB WB WB GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO NLDC NLDC |
| 2004 2005 2006 2007 2008 2009 2100 2111 2122 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 229 229 229 229 229 229 229 229 | 200V Aligoridual - Salakali Cki - I 200V Aligoriduar - Salakali Cki - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Sagardighi TL 400 KV Farakka- Sagardighi TL 400 KV Farakka- Sagardighi TL 400 KV Faraka- Kahalgaon-III (Bay-22) Tie Bay of 400 KV Farraka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-III line 400 KV Farraka- Kahalgaon-III line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-III line 400 KV Farraka- Kahalgaon-III line 400 KV Farraka- Kahalgaon-III line 400 KV BUS-I of NTPC Farakka 132 KV BIRPARA-BIRPARA-I Non auto mode of auto reclose of 400KV Talcher-Rourkela D/C Line Tie Bay-408 of 400KV Raigarh Line-I & Future at Sundargarh Tie Bay-414 of 400KV Bus Reactor-II & Future at Sundargarh 400KV V PANDIABILI - MENDHASAL CKT#-I 400KV V PANDIABILI - MENDHASAL CKT#-I 400KV Bus! at Sundargarh 400KV Bus! at Sundargarh 400KV Bus! at Sundargarh | 06/03/18 05/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 07/03/18 01/03/18 02/04/18 20/03/18 20/03/18 02/04/18 20/03/18 01/03/18 09/03/18 09/03/18 10/03/18 10/03/18 24/02/18 24/02/18 24/02/18 | 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 09:00 09:00 09:00 08:00 08:00 08:00 09:00 00 09:00 00 00 00 00 00 00 00 00 00 | 06/03/18 07/03/18 27/02/18 07/03/18 05/03/18 31/03/18 31/03/18 07/03/18 07/03/18 07/03/18 20/04/18 31/03/18 01/04/18 02/04/18 20/03/18 01/03/18 01/03/18 03/03/18 09/03/18 09/03/18 13/03/18 13/03/18 22/02/18 22/02/18 | 13:00 13:00 18:00 | ODB ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | ER-II ER-II ER-II ER-II/Odisha/Rengali ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS Isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of Isolator & CT from 2000A to 3150 A in bay-34 & for installation of new equipment in Bay-33 under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-II) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-22 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For disconnecting bay-32 (Main Bay of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For Installation of new CB and other associated work for Bus Reactor-II to make Bus Reactor-II switchable. For connecting bay-32 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting Bay-34 (Tie Bay of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For connecting BUS Isolator form 2000A to 3150 A rating under ERSS- VV projects). FOR VARIABLE FREQUENCY TAN DELTA MEASURMENT FOR AMP For AMP For AMP For AMP For AMP For AMP For AMP Replacement of CVT connector to reduce load on CVT under system improvement scheme. Commissioning of redundant bus bar protection AMP Work | NLDC NLDC WB WB WB WB WB WB GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 2004 2005 2006 2007 2008 2009 2100 2111 212 213 214 215 216 217 218 219 220 221 222 223 224 222 222 222 222 222 222 222 | 200V Alipproduct - Salakati Kk - I 200V Alipproduct - Salakati Kk - I 400 KV Farakka- Sagardighi TL 400 KV Farakka- Sagardighi TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Durgapur-II TL 400 KV Farakka- Sagardighi TL 400 KV Farakka- Sagardighi TL 400 KV Farakka- Kahalgaon-III (Bay-33 & 34) 400 KV Farraka- Kahalgaon-III line 400 KV Farraka- Kahalgaon-III line 50 MVAR Bus Reactor-II at Farakka 400 KV Farraka- Kahalgaon-III line 400 KV BuS-I of NTPC Farakka 132 KV BIRPARA-BIRPARA-I 134 KV BIRPARA-I 135 KV BIRPARA-BIRPARA-I 140 400KV Bus Reactor-I & Future at Sundarga | 06/03/18 05/03/18 05/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 06/03/18 07/03/18 07/03/18 07/03/18 01/04/18 02/04/18 20/03/18 02/04/18 02/03/18 03/03/18 03/03/18 09/03/18 09/03/18 10/03/18 13/03/18 24/02/18 26/02/18 26/02/18 | 10:00 09:00 09:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00 09:00 09:00 09:00 09:00 09:00 08:00 08:00 09:00 09:00 08:00 09:00 00 00 00 00 00 00 00 00 00 | 06/03/18 07/03/18 27/02/18 07/03/18 05/03/18 31/03/18 31/03/18 07/03/18 08/03/18 08/03/18 20/04/18 31/03/18 01/04/18 02/04/18 02/04/18 20/03/18 01/03/18 01/03/18 03/03/18 03/03/18 09/03/18 13/03/18 13/03/18 24/02/18 26/02/18 | 13:00 13:00 18:00 | ODB ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | ER-II ER-II ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Cuttack TL ER-II/Odisha/Sundergarh ER-II/I | Replacement of damaged Bird Guard of WT Replacement of damaged Bird Guard of WT For Transmission line AMP For Transmission line AMP For disconnecting BUS isolator from 2000A to 3150 A rating under ERSS- XV projects). For augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-XV projects. For augmentation of new equipment in Bay-33 under ERSS- Tor augmentation of new equipment in Bay-33 under ERSS- Tor augmentation of new equipment in Bay-33 under ERSS- For augmentation of new equipment in Bay-33 under ERSS- For augmentation of new equipment in Bay-33 under ERSS- Tor augmentation of new equipment in Bay-33 under ERSS- For augmentation of lsolator & CT from 2000A to 3150 A rating under ERSS-YV projects. For disconnecting Bay-32 (In Easy of 400 KV Farakka- Kahalgaon-III) from line side for augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-YV projects. For connecting Bay-32 (In Easy of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-YV projects. For connecting Bay-32 (In Easy of 400 KV Farakka- Kahalgaon-III) from line side after augmentation of Isolator & CT from 2000A to 3150 A rating under ERSS-YV projects. For connecting Bus Solator of bay no-22 & 33 to BUS-11 (After augmentation of BUS Isolator from 2000A to 3150 A rating under ERSS-YV projects. FOR VARIABLE FREQUENCY TAN DELTA MEASURMENT FOR AMP For AMP For AMP For AMP For AMP For AMP | NLDC NLDC WB WB WB WB WB WB WB WB WB WB WB WB WB |

| 231 | Main Bay-719 of 765KV Darlipali(NTPC)-II at Sundargarh | 27/02/18 | 08:00 | 27/02/18 | 18:00 | ODB | ER- II/Odisha/Sundergarh | AMP Work | NLDC |
|-----|---|-------------------|-------|-------------------|-------|-----|------------------------------------|---|----------|
| 232 | Tie Bay-723 of 765KV Darlipali(NTPC)-1 & 765KV Dharamjaygarh-II at Sundargarh | 28/02/18 | 09:00 | 28/02/18 | 18:00 | ODB | ER- II/Odisha/Sundergarh | AMP Work | NLDC |
| 234 | 400KV NTPC(Kanhia)-POWERGRID feeder-IV | 01/03/18 | 09:00 | 01/03/18 | 18:00 | ODB | ER-II/Odisha/Kanhia | Commissioning of redundant bus bar protection | NLDC |
| 235 | 132 kV 101 BAY (Jaleswar Line main Bay) at Baripada | 01/03/18 | 09:00 | 01/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CT & CVT junction Box Replacement | |
| 236 | Auto Recloser to be kept in Non Auto mode of 400Kv Indrvati- Rengali S/c Line | 01/03/18 | 08:00 | 15/03/18 | 17:00 | OCB | ER- II/Odisha/Bhawanipatn a | For Online PID testing of of 400Kv Indravati-Rengali S/c Line. | NLDC |
| 237 | A/R to be kept Non-Auto mode in 400KV Rengali-Indravati | | 08:00 | | 18:00 | ODB | a ER-II/Odisha /Bolangir | PID testing of Insulators, Auto-Reclosure to be kept in Non-Auto mode | NEDO |
| 238 | Line 400kv Bay 401 (Keonjhar Main) at Rengali | 01/03/18 01/03/18 | 09:00 | 31/03/18 02/03/18 | 17:00 | OCB | ER-II/Odisha/Rengali | at both end. For CT replacement works. | NLDC |
| 239 | 315MVA ICT#2 TIE BAY (BAY NO 414) at Rourkela | 01/03/18 | 09:00 | 01/03/18 | 18:00 | ODB | er- II/odisha/rourkela | AMP Work. | |
| 240 | Tie Bay-720 of 765KV Darlipali(NTPC)-II & 765KV | 01/03/18 | 08:00 | 01/03/18 | 18:00 | ODB | ER- | AMP Work | |
| 241 | Dharamjaygarn-i at Sundargarn A/R switch is to be kept in non auto mode at both end 400kv Rourkela-Sundargarh -I(one) | 01/03/18 | 08:00 | 31/03/18 | 17:00 | ODB | ER- II/Odisha/Sundargarh | For PID testing of Porceline insulator | |
| 242 | A/R switch is to be kept in non auto mode at both end 400kv Sundargarh - Raigarh- I (one) | 01/03/18 | 08:00 | 31/03/18 | 17:00 | ODB | ER- II/Odisha/Sundargarh | For PID testing of Porceline insulator | MIDO |
| 243 | A/R switch is to be kept in non auto mode at both end 400kv Rourkela-Sundargarh -II(Two) | 01/03/18 | 08:00 | 31/03/18 | 17:00 | ODB | ILM ER- II/Odisha/Sundargarh | For PID testing of Porceline insulator | NLDC |
| 244 | A/R switch is to be kept in non auto mode at both end 400kv Sundargarh - Raigarh- II (Two) | 01/03/18 | 08:00 | 31/03/18 | 17:00 | ODB | ER- II/Odisha/Sundargarh | For PID testing of Porceline insulator | NLDC |
| 245 | A/R switch is to be kept in non auto mode at both end 400kv Rourkela- Sundargarh- III (Three) | 01/03/18 | 08:00 | 31/03/18 | 17:00 | ODB | ILM ER- II/Odisha/Sundargarh | For PID testing of Porceline insulator | |
| 246 | A/R switch is to be kept in non auto mode at both end 400kv Sundargarh - Raigarh- III (Three) | 01/03/18 | 08:00 | 31/03/18 | 17:00 | ODB | ER- II/Odisha/Sundargarh | For PID testing of Porceline insulator | All D.C. |
| 247 | A/R switch is to be kept in non auto mode at both end 400kv Rourkela- Sundargarh- IV (Four) | 01/03/18 | 08:00 | 31/03/18 | 17:00 | ODB | ER- II/Odisha/Sundargarh | For PID testing of Porceline insulator | NEDC |
| 248 | A/R switch is to be kept in non auto mode at both end 400kv Sundargarh - Raigarh- IV(Four) | 01/03/18 | 08:00 | 31/03/18 | 17:00 | ODB | ILM ER- II/Odisha/Sundargarh | For PID testing of Porceline insulator | MIDO |
| 249 | 315MVA ICT#2 MAIN BAY (BAY NO 415) at Rourkela | 02/03/18 | 09:00 | 02/03/18 | 18:00 | ODR | ER- II/ODISHA/ROURKELA | AMP WORK. | NEDC |
| 250 | 132 kV 103 BAY (BhograiLine main Bay) at Baripada | 02/03/18 | 09:00 | 02/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CT & CVT junction Box Replacement | |
| 251 | 400 kV Bus -I at Jeypore | 02/03/18 | 09:00 | 02/03/18 | 17:00 | ODB | ER-II/Odisha/Jeypore | For Pipe structure connection from Existing 400KV Bus-I to Ongoing 400KV Bus-I Erection under ongoing STATCOM Project Works and Testing of Bus bar protection. (Outage to be booked under Constantine Hord) | GRIDCO |
| 252 | Main Bay-721 of 765KV Dharamjaygarh-I at Sundargarh | 03/03/18 | 08:00 | 03/03/18 | 18:00 | ODB | ER- II/Odisha/Sundergarh | AMP Work | NLDC |
| 253 | 400 kV Bus -II at Jeypore | 03/03/18 | 09:00 | 03/03/18 | 17:00 | ODB | ER-II/Odisha/Jeypore | For Pipe structure connection from Existing 400KV Bus-II to Ongoing 400KV Bus-II Erection under ongoing STATCOM Project Works and Testing of Bus bar protection (Outage to be booked under Construction Heart) | GRIDCO |
| 254 | 400 kV Bus-II at Baripada | 03/03/18 | 08:30 | 03/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | For GIS bay EXTN works(for isolation of GIS Bus-II) | |
| 255 | 400 kV Bay 415 CB(GIS) at Baripada | 03/03/18 | 08:30 | 12/03/18 | 17:30 | OCB | ER-II/Odisha/BARIPADA S/S | For GIS Bus-II ext. works | |
| 256 | 220KV Kantapali Line BAY CB (203 CB) at Bolangir | 03/03/18 | 09:00 | 03/03/18 | 18:00 | ODB | ER-II/Odisha /Bolangir | AMP work for 203 CB and 203 CT | GRIDCO |
| 257 | 400KV Keonihar-Baripada Line CVT | 03/03/18 | 09:00 | 03/03/18 | 18:00 | ODB | ER-II/Odisha/Keonihar | Checking of CVT due to low secondary voltage | GNIDCO |
| 258 | 400kv Bay 407 (ICT-1 Main) at Rengali | 03/03/18 | 09:00 | 04/03/18 | 17:00 | OCB | ER-II/Odisha/Rengali | For CT replacement works. | |
| 259 | 125MVAR BUS REACTOR#2 MAIN BAY (BAY NO425) at Rourkela | 03/03/18 | 09:00 | 03/03/18 | 18:00 | ODB | ER- II/ODISHA/ROURKELA | AMP WORK. | |
| 260 | 63MVAr Dubri Line reactor(407R) at Baripada | 04/03/18 | 09:30 | 04/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | AMP works | |
| 261 | Dubri Bus reactor at Dubri end | 05/03/18 | 09:30 | 05/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | AMP works | |
| 262 | 7/DM An end Advances they d | 05/03/18 | 09:00 | 05/03/18 | 18:00 | ODB | ER-II/Odisha/Angul SS | Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of | |
| 263 | 400 kV Jeypore-Indravati S/C Line | 05/03/18 | 09:00 | 07/03/18 | 18:00 | ODB | ER-II/Odisha/Jeypore | For Replacement of PID Defective Insulators in Jey-lvt Line | NLDC |
| 264 | 400KV Bus-I at Keonjhar | 05/03/18 | 09:00 | 10/03/18 | 18:00 | ODB | ER-II/Odisha/Keonjhar | Stringing of Jack Bus over Bus-I for 125 MVAR Reactor | |
| 265 | 400kv Bay 408 (ICT-1 & ICT-II Tie) at Rengali | 05/03/18 | 09:00 | 05/03/18 | 17:00 | ODB | ER-II/Odisha/Rengali | For CT replacement works. | |
| 266 | 315MVA ICT#1 at Rourkela | 05/03/18 | 09:00 | 08/03/18 | 18:00 | OCB | er- II/odisha/rourkela | For attending the oil mix up problem of OLTC of the said Transformer. | GRIDCO |
| 267 | Main Bay-724 of 765KV Dharamjaygarh-II at Sundargarh | 05/03/18 | 08:00 | 05/03/18 | 18:00 | ODB | ER- II/Odisha/Sundergarh | AMP Work | NLDC |
| 268 | Main Bay of Mendhasal-pandiabili Ckt-1 at Pandiabili | 05/03/18 | 09:00 | 05/03/18 | 18:00 | ODB | ER-II/Odisha/Pandiabili | For DCRM of CB | |
| 269 | Tie Bay of pandiabili Ckt-1-pandiabili Ckt-2 at Pandiabili | 06/03/18 | 09:00 | 06/03/18 | 18:00 | ODB | ER-II/Odisha/Pandiabili | For DCRM of CB | |
| 270 | 765/400KV ICT-I & 765/400KV ICT-II at Sundargarh | 06/03/18 | 08:00 | 06/03/18 | 18:00 | ODB | ER- | Stringing of 400KV side jack bus for commissioning of 765/400KV ICT- | NLDC |
| 271 | 400kV Rengali-Talcher # 1 Main Bay-404 at Rengali | 06/03/18 | 09:00 | 09/03/18 | 17:00 | OCB | ER-II/Odisha/Rengali | 3x4 under construction nead. For CB Mechanism and Pole overhaulling work and AMP. | |
| 272 | 765kV Angul-Srikakulam Line -2 | 06/03/18 | 09:00 | 06/03/18 | 18:00 | ODB | ER-II/Odisha/Angul SS | Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability. | NLDC |
| 273 | 160 MVA ICT#1 at Baripada | 06/03/18 | 09:00 | 06/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CT junction Box Replacement | GRIDCO |
| | | | | | | | • | | • |

| 274 | 220KV Future Line-iii BAY CB (207 CB) at Bolangir | 06/03/18 | 09:00 | 06/03/18 | 18:00 | ODB | ER-II/Odisha /Bolangir | AMP work for 207 CB and 207 CT | |
|---|--|--|--|--|--|---|---|--|----------------------|
| 275 | 765 KV D/C Angul Jharsuguda Trans line (Ckt-I & II) | 07/03/18 | 08:00 | 18/03/18 | 17:00 | OCB | ER- II/Odisha/Sundargarh TLC | Swapping arrangement : Stringing work of 765KV Angul - Jharsuguda CktIII & IV with Ckt-I & II | NLDC |
| 276 | 765KV 240 MVAr Bus reactor-II at Sundargarh | 07/03/18 | 09:00 | 07/03/18 | 12:00 | ODB | ER- II/Odisha/Sundergarh | Shifting of R-Ph Reactor to Spare Reactor to attend oil leakage in R-Ph Reactor. | NEDC |
| 277 | 315 MVA, ICT-I BAY CB (402 CB) at Bolangir | 07/03/18 | 09:00 | 07/03/18 | 18:00 | ODB | ER-II/Odisha /Bolangir | AMP work for 402 CB and 402 CT | |
| 278 | 132 kV 109 BAY (Baripada Line bay) at Baripada | 07/03/18 | 09:00 | 07/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CVT & CT junction Box Replacement | |
| 279 | 765kV Bus Reactor-2 at Angul | 07/03/18 | 10:00 | 07/03/18 | 16:00 | ODB | ER-II/Odisha/Angul SS | B-phase Reactor to be taken in service after attending Oil Leakage by full Gasket replacement by M/s. TBFA under TBFA | NLDC |
| 280 | 400kv Sundargarh - Raigarh- I (one) | 07/03/18 | 08:00 | 07/03/18 | 18:00 | ODB | ER- II/Odisha/Sundargarh TI M | Flash Insulator replacement works at Loc 763 and loc 641 | NLDC |
| 281 | 765KV Sundargarh-Dharmajaygarh ckt-l | 08/03/18 | 08:00 | 08/03/18 | 18:00 | ODB | ER- II/Odisha/Sundargarh TI M | For AMP work | NLDC |
| 282 | 400kV Bus Reactor-3 Main Bay (404) at Angul | 08/03/18 | 10:00 | 08/03/18 | 16:00 | ODB | ER-II/Odisha/Angul SS | AMP Work. | |
| 283 | 132 kV 108 BAY (Bangriposiline bay) at Baripada | 08/03/18 | 09:00 | 08/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CVT & CT junction Box Replacement | |
| 284 | Tie bay (417) of 63Mvar Reactor & 315MVA ICT #2 at Jeypore | 08/03/18 | 10:00 | 10/03/18 | 16:00 | OCB | ER-II/Odisha/Jeypore | For rectification of SF6 gas leakage and overhaulling of B-ph CB of Tie bay (417) of 63Mvar Reactor & 315MVA ICT #2 | |
| 285 | 400KV BUS-II at Mendhasal and Main Bay of Mendhasal- | 08/03/18 | 09:00 | 08/03/18 | 18:00 | ODB | ER-II/Odisha/Pandiabili | For correcting the alignment and operation of isolator towards BUS side of main Bay of Mendhasal-Pandiabili Ctt-2 | GRIDCO |
| 286 | 400KV BUS-II at Mendhasal and Main Bay of Mendhasal- | 08/03/18 | 09:00 | 08/03/18 | 18:00 | ODB | ER-II/Odisha/Pandiabili | For correcting the alignment and operation of isolator towards BUS | GRIDCO |
| 287 | 765KV Sundargarh-Dharmajaygarh ckt-ll | 09/03/18 | 08:00 | 09/03/18 | 18:00 | ODB | ER- II/Odisha/Sundargarh | For AMP work | NIDC |
| 288 | Main Bay of Mendhasal-Pandiabili Ckt-2 at Pandiabili | 09/03/18 | 09:00 | 09/03/18 | 18:00 | ODB | ER-II/Odisha/Pandiabili | For DCRM of CB | NEDC |
| 289 | Main Bay of Mendhasal-Pandiabili Ckt-2 at Pandiabili | 09/03/18 | 09:00 | 09/03/18 | 18:00 | ODB | ER-II/Odisha/Pandiabili | For DCRM of CB | |
| 290 | 132kV BUS at Baripada | 09/03/18 | 09:30 | 09/03/18 | 12:30 | ODB | ER-II/Odisha/BARIPADA S/S | Bus CVT JB replacement | GRIDCO |
| 291 | 400kV B/R-2 & Meramundali Line-1 Tie Bay (405) at Angul | 09/03/18 | 10:00 | 09/03/2018 | 16:00 | ODB | ER-II/Odisha/Angul SS | AMP Work. | GNIDCO |
| 292 | Angul Line Reactor Bay CB(401R CB) at Bolangir | 09/03/18 | 09:00 | 09/03/18 | 18:00 | ODB | ER-II/Odisha /Bolangir | AMP work for 401R CB | |
| 293 | 220KV BUS COUPLER BAY (BAY NO 202) at Rourkela | 09/03/18 | 09:00 | 09/03/18 | 18:00 | OCB | er- II/ODISHA/ROURKELA | AMP WORK. | |
| 294 | 765KV Bus-I at Sundargarh | 09/03/18 | 08:00 | 11/03/18 | 18:00 | OCB | ER- II/Odisha/Sundergarh | Dismantling, shifting and re-erection of 765 Bus E/s to a new location for casting of foundation of 765KV GIS Bus sectionalizer under construction work | NLDC |
| 295 | 220KV BUS TRANSFER BAY (BAY NO 205) at Rourkela | 10/03/18 | 09:00 | 10/03/18 | 18:00 | OCB | er- II/ODISHA/ROURKELA | AMP WORK. | |
| | 400KV ICT-2 & TALCHER LINE TIE (408) at Angul | 10/03/18 | 10:00 | 10/03/18 | 16:00 | ODB | ER-II/Odisha/Angul SS | AMP Work. | |
| 296 | | | | | | | | | |
| 296 297 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali | 10/03/18 | 09:00 | 13/03/18 | 17:00 | OCB | ER-II/Odisha/Rengali | For CB Mechanism and Pole overhaulling work and AMP. | |
| 296 297 298 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada | 10/03/18 12/03/18 | 09:00 08:30 | 13/03/18 12/03/18 | 17:00 17:30 | OCB ODB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for reconnecting jumpers to GIS Bus-II) | |
| 296 297 298 299 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul | 10/03/18 12/03/18 12/03/18 | 09:00 08:30 10:00 | 13/03/18 12/03/18 12/03/18 | 17:00 17:30 16:00 | OCB ODB ODB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of | |
| 296 297 298 299 300 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore | 10/03/18 12/03/18 12/03/18 12/03/18 | 09:00 08:30 10:00 10:00 | 13/03/18 12/03/18 12/03/18 14/03/18 | 17:00 17:30 16:00 16:00 | OCB ODB ODB OCB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Jeypore | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Cazuwaka Line1 | |
| 296 297 298 299 300 301 302 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Bus-II at Keonjhar 220kV ICT#2 INCOMER BAY (BAY NO 208) at Rourkela | 10/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 | 09:00 08:30 10:00 10:00 09:00 | 13/03/18 12/03/18 12/03/18 14/03/18 17/03/18 12/03/18 | 17:00 17:30 16:00 16:00 18:00 18:00 | OCB ODB ODB OCB ODB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Jeypore ER-II/Odisha/Keonjhar ER- II/ODISHA/ROIRKEI A | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Gazuwaka Line1 Stringing of Jack Bus over Bus-II for 125 MVAR Reactor AMP WORK. | |
| 296 297 298 299 300 301 302 | 400kV Rengail-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Bus-II at Keonjhar 220kV ICT#2 INCOMER BAY (BAY NO 208) at Rourkela 765KV Bus-II at Sundargarh | 10/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 | 09:00 08:30 10:00 10:00 09:00 09:00 | 13/03/18 12/03/18 12/03/18 14/03/18 17/03/18 12/03/18 | 17:00 17:30 16:00 16:00 18:00 18:00 | OCB ODB ODB OCB ODB OCB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Keonjhar ER- II/ODISHA/ROURKELA ER- | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for reconnecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Gazuwaka Line1 Stringing of Jack Bus over Bus-II for 125 MVAR Reactor AMP WORK. Dismantline. shifting and re-erection of 765 Bus E/s to a new location | |
| 296 297 298 299 300 301 302 303 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Bus-II at Keonjhar 220kV ICT#2 INCOMER BAY (BAY NO 208) at Rourkela 765KV Bus-II at Sundargarh | 10/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 | 09:00 08:30 10:00 10:00 09:00 09:00 08:00 | 13/03/18 12/03/18 12/03/18 14/03/18 17/03/18 12/03/18 12/03/18 | 17:00 17:30 16:00 16:00 18:00 18:00 18:00 | OCB ODB ODB OCB ODB OCB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Keonjhar ER-II/Odisha/Keonjhar ER- II/ODISHA/ROURKELA ER- II/Odisha/Sundergarh | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Gazuwaka Line1 Stringing of Jack Bus over Bus-II for 125 MVAR Reactor AMP WORK. Dismantling, shifting and re-erection of 765 Bus E/s to a new location for casting of foundation of 765KV GIS Bus sectionalizer under construction work | NLDC |
| 296 297 298 299 300 301 302 303 303 | 400kV Rengail-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Bus-II at Keonjhar 220kV ICT#2 INCOMER BAY (BAY NO 208) at Rourkela 765KV Bus-II at Sundargarh Main Bay-701 of 765KV 240MVAR B/R-I at Sundargarh Tie Bay-702 of 765KV 240MVAR B/R-I at Sundargarh | 10/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 | 09:00 08:30 10:00 09:00 09:00 08:00 | 13/03/18 12/03/18 12/03/18 14/03/18 17/03/18 12/03/18 14/03/18 12/03/18 | 17:00 17:30 16:00 16:00 18:00 18:00 18:00 | OCB ODB ODB OCB OCB OCB ODB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Keonjhar ER- II/ODISHA/ROURKELA ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh EP- | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Gazuwaka Line1 Stringing of Jack Bus over Bus-II for 125 MVAR Reactor AMP WORK. Dismantling, shifting and re-erection of 765 Bus E/s to a new location for casting of foundation of 765KV GIS Bus sectionalizer under construction work For AMP work | NLDC |
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| 296 297 298 299 300 301 302 303 303 304 305 306 | 400kV Rengail-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Bus-II at Keonjhar 220kV ICT#2 INCOMER BAY (BAY NO 208) at Rourkela 765KV Bus-II at Sundargarh Main Bay-701 of 765KV 240MVAR B/R-I at Sundargarh Tie Bay-702 of 765KV 240MVAR B/R-I & 765/400KV ICT-I at Sundargarh 220kV RORKELA-TARKERA#2 BAY (BAY NO 209) at Rourkela | 10/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 13/03/18 | 09:00 08:30 10:00 10:00 09:00 09:00 08:00 08:00 08:00 | 13/03/18 12/03/18 12/03/18 14/03/18 17/03/18 12/03/18 12/03/18 12/03/18 13/03/18 | 17:00 17:30 16:00 16:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB ODB OCB OCB OCB ODB ODB OCB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Keonjhar ER- II/ODISHA/ROURKELA ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/ODISHA/ROURKELA | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Gazuwaka Line1 Stringing of Jack Bus over Bus-II for 125 MVAR Reactor AMP WORK. Dismantling, shifting and re-erection of 765 Bus E/s to a new location for casting of foundation of 765KV GIS Bus sectionalizer under construction work For AMP work AMP WORK. | NLDC NLDC NLDC |
| 296 297 298 299 300 301 302 303 304 305 306 307 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Bus-II at Keonjhar 220kV ICT#2 INCOMER BAY (BAY NO 208) at Rourkela 765KV Bus-II at Sundargarh 765KV Bus-II at Sundargarh Tie Bay-702 of 765KV 240MVAR B/R-I & 765/400KV ICT-I at Sundargarh 220kV RORKELA-TARKERA#2 BAY (BAY NO 209) at Rourkela | 10/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 13/03/18 13/03/18 | 09:00 08:30 10:00 10:00 09:00 09:00 08:00 08:00 08:00 08:00 | 13/03/18 12/03/18 12/03/18 14/03/18 17/03/18 12/03/18 12/03/18 12/03/18 13/03/18 13/03/18 13/03/18 | 17:00 17:30 16:00 18:00 18:00 18:00 18:00 18:00 18:00 | OCB ODB ODB OCB OCB OCB ODB ODB OCB ODB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Keonjhar ER- II/ODISHA/ROURKELA ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/ODISHA/ROURKELA ER-II/Odisha/Angul SS | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Gazuwaka Line1 Stringing of Jack Bus over Bus-II for 125 MVAR Reactor AMP WORK. Dismantling, shifting and re-erection of 765 Bus E/s to a new location for casting of foundation of 765KV GIS Bus sectionalizer under construction work For AMP work For AMP work AMP WORK. AMP WORK. | NLDC NLDC NLDC |
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| 296 297 298 300 301 302 303 304 305 306 307 308 307 308 307 310 311 312 313 314 315 314 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Bus-II at Keonjhar 220kV ICT#2 INCOMER BAY (BAY NO 208) at Rourkela 765kV Bus-II at Sundargarh 220kV ROT#2 INCOMER BAY (BAY NO 208) at Rourkela 765kV Bus-II at Sundargarh Tie Bay-702 of 765kV 240MVAR B/R-I at Sundargarh Tie Bay-702 of 765kV 240MVAR B/R-I at 765/400KV ICT-I at Sundargarh 220kV RORKELA-TARKERA#2 BAY (BAY NO 209) at Rourkela 400kV BUS-1 at Angul 400kV BUS-1 at Angul 400kV Bus-I at Baripada 220kV Side ICT-I BAY CB (208 BAY CB) at Bolangir 400kV BUS-2 at Angul 400kV RUS-2 at Angul 400kV RUS-2 at Angul 400kV REIA-TARKERA#1 BAY (BAY NO 210) at Rourkela Main Bay-703 of 765/400KV ICT-I at Sundargarh Main Bay-704 of 765KV 240MVAR B/R-II at Sundargarh 420kV ICT#1 INCOMER BAY (BAY NO 211) at Rourkela | 10/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 14/03/18 14/03/18 14/03/18 14/03/18 | 09:00 08:30 10:00 09:00 09:00 08:00 08:00 08:00 08:30 09:00 08:30 09:00 08:30 09:00 08:00 09:00 08:00 09:00 08:00 09:00 | 13/03/18 12/03/18 12/03/18 14/03/18 17/03/18 12/03/18 12/03/18 12/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 14/03/18 14/03/18 14/03/18 14/03/18 14/03/18 15/03/18 | 17:00 17:30 16:00 18 | OCB ODB OCB OCB OCB OCB ODB ODB ODB ODB ODB ODB ODB ODB ODB OD | ER-II/Odisha/Rengali ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Keonjhar ER-II/Odisha/Sundergarh II/ODISHA/ROURKELA ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Rongul SS ER-II/Odisha/Rongul SS ER-II/Odisha/Sundergarh ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Gazuwaka Line1 Stringing of Jack Bus over Bus-II for 125 MVAR Reactor AMP WORK. Dismantling, shifting and re-erection of 765 Bus E/s to a new location for casting of foundation of 765KV GIS Bus sectionalizer under construction work For AMP work For AMP work For GIS bay EXTN works(for isolation of GIS Bus-I) For GIS bay EXTN works(for isolation of GIS Bus-I) For GIS Bus-I ext. works AMP Work. For CB Mechanism and Pole overhaulling work and AMP. AMP Work. For CB Mechanism and Pole overhaulling work and AMP. AMP WORK. For AMP work For AMP work For AMP work For AMP work For AMP Work. For CB Mechanism and Pole overhaulling work and AMP. AMP WORK. | NLDC NLDC NLDC |
| 296 297 298 300 301 302 303 304 305 306 306 306 307 308 309 310 311 312 313 314 315 316 316 | 400kV Rengali-Talcher # 1 Tie Bay-406 at Rengali 400 kV Bus-II at Baripada 400kV Meramundali Line-1 Main Bay (406) at Angul 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Gazuwaka Line1 Main Bay CB (413) at Jeypore 400kV Bus-II at Keonjhar 220kV ICT#2 INCOMER BAY (BAY NO 208) at Rourkela 765KV Bus-II at Sundargarh 220kV ROT#2 INCOMER BAY (BAY NO 208) at Rourkela 765KV Bus-II at Sundargarh 10 Bay-701 of 765KV 240MVAR B/R-I at Sundargarh 11 Bay-702 of 765KV 240MVAR B/R-I at 765/400KV ICT-I at 200kV ROKKELA-TARKERA#2 BAY (BAY NO 209) at Rourkela 400kV BuS-1 at Angul 400 kV Bus-1 at Baripada 400 kV Bay 413CB(GIS) at Baripada 220kV side ICT-I BAY CB (208 BAY CB) at Bolangir 400kV BuJS-2 at Angul 400kV BuJS-2 at Angul 400kV Rougali-Talcher # 2 Main Bay-403 at Rengali 220kV ROURKELA-TARKERA#1 BAY (BAY NO 210) at Rourkela Main Bay-703 of 765/400KV ICT-I at Sundargarh Main Bay-704 of 765KV 240MVAR B/R-II at Sundargarh 220kV ICT#1 INCOMER BAY (BAY NO 211) at Rourkela 400kV Side ICT-4 Main Bay (BAY NO 211) at Rourkela | 10/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 12/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 14/03/18 14/03/18 14/03/18 14/03/18 15/03/18 | 09:00 08:30 10:00 10:00 09:00 08:00 08:00 08:00 08:30 08:30 08:30 09:00 08:30 09:00 08:00 09:00 08:00 09:00 09:00 08:00 09:00 09:00 09:00 08:00 09:00 09:00 08:00 09:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 08:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08:00 09:00 08 | 13/03/18 12/03/18 12/03/18 14/03/18 17/03/18 12/03/18 12/03/18 12/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 13/03/18 14/03/18 14/03/18 14/03/18 14/03/18 14/03/18 15/03/18 | 17:00 17:30 16:00 18:00 18:00 18:00 18:00 18:00 18:00 17:30 17:30 18:00 18 | OCB ODB ODB OCB OCB OCB ODB ODB OCB ODB OCB ODB OCB ODB OCB ODB OCB ODB OCB OCB ODB OCB OCB OCB OCB | ER-II/Odisha/Rengali ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Keonjhar ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/RARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/RourKELA ER- ER- II/ODISHA/ROURKELA ER- ER- II/ODISHA/ROURKELA ER- ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA ER- II/ODISHA/ROURKELA | For CB Mechanism and Pole overhaulling work and AMP. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) AMP Work. For rectification of SF6 gas leakage and overhaulling of B-ph CB of Main bay (413) of 400KV Gazuwaka Line1 Stringing of Jack Bus over Bus-II for 125 MVAR Reactor AMP WORK. Dismantling, shifting and re-erection of 765 Bus E/s to a new location for asting of foundation of 765KV GIS Bus sectionalizer under construction work For AMP work For AMP work For GIS bay EXTN works(for Isolation of GIS Bus-I) For GIS bay EXTN works(for Isolation of GIS Bus-I) For GIS bay EXTN works For AMP work. For CB Mechanism and Pole overhaulling work and AMP. AMP WORK. For CB Mechanism and Pole overhaulling work and AMP. AMP WORK. For AMP work For AM | NLDC |

| 318 | 220 kV Balaosre-I | 15/03/18 | 09:00 | 15/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CVT & CT junction Box Replacement | GRIDCO |
|---|---|--|---|--|---|--|--|---|--|
| 319 | 220KV side ICT-II BAY CB (212 BAY CB) at Bolangir | 15/03/18 | 09:00 | 15/03/18 | 18:00 | ODB | ER-II/Odisha /Bolangir | AMP work for 212 CB | |
| 320 321 | 315MVA ICT #2 at Jeypore 400kV Side ICT-4 & Future Tie Bay (420) at Angul | 15/03/18 16/03/18 | 09:30 10:00 | 16/03/18 16/03/18 | 17:30 16:00 | ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS | ELPRO isolator(02 Nos) allignment work AMP Work. | GRIDCO |
| 322 | 125MVAR BUS REACTOR#1 at Rourkela | 16/03/18 | 09:00 | 16/03/18 | 18:00 | OCB | er- II/Odisha/Rourkela | Overhauling of mechanically jammed Isolators & Commissioning of CSD in Tie Bay CB. | |
| 323 | Tie Bay-705 of 765KV 240MVAR B/R-II & 765/400KV ICT-II at Sundargarb | 16/03/18 | 08:00 | 16/03/18 | 18:00 | ODB | ER- II/Odisba/Sundergarb | For AMP work | |
| 324 | Main Bay-706 of 765/400KV ICT-II at Sundargarh | 17/03/18 | 08:00 | 17/03/18 | 18:00 | ODB | ER- | For AMP work | NLDC |
| 325 | 765kV ICT-4 & B/R-2 Tie Bay (714) at Angul | 17/03/18 | 09:00 | 17/03/18 | 18:00 | ODB | ER-II/Odisha/Angul SS | AMP Work. | NLDC |
| 326 | 408 BAY(Duburi &jamshedpur line tie bay) at Baripada | 17/03/18 | 09:00 | 17/02/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | AMP work | NEDC |
| 327 | Transfe Bus coupler BAY CB (210 BAY CB) at Bolangir | 17/03/18 | 09:00 | 17/03/18 | 18:00 | ODB | ER-II/Odisha /Bolangir | AMP work for 210 CB and 210 CT | |
| 328 | ICT-I (3x 105 MVA) at Jeypore | 17/03/18 | 09:00 | 17/03/18 | 18:00 | ODB | ER-II/Odisha/Jeypore | For Extending Tertlary of Existing ICT-I (3x105MVA) for STATCOM Projects for Back-up Auxiliary supply, AMP Works & Isolator Retrofitting work (Outage to be booked under Construction Head) | GRIDCO |
| 329 | 220KV JEYNAGAR-I Line | 18/03/18 | 09:30 | 18/03/18 | 17:30 | ODB | ER-II/Odisha/Jeypore | For Isolator Retrofitting works (220KV Jeynagarl TBC Isolator) | GRIDCO |
| 330 | 410 BAY(pandiabilli line main bay) at Baripada | 18/03/18 | 09:00 | 18/02/18 | 17:30 | ODB | S/S | AMP work | |
| 331 | 220 KV Bus Coupler Bay-204 at Rengali | 18/03/18 | 09:00 | 20/03/18 | 17:00 | OCB | ER-II/Odisha/Rengali | For CB Pole overhaulling work and AMP. | |
| 332 | Main Bay-707 of 765KV Angul L/R-II at Sundargarh | 18/03/18 | 08:00 | 18/03/18 | 18:00 | ODB | II/Odisha/Sundergarh | For AMP work | NLDC |
| 333 | Tie Bay-708 of 765KV Anul L/R-II at Sundargarh | 19/03/18 | 08:00 | 19/03/18 | 18:00 | ODB | ER- II/Odisha/Sundergarh | For AMP work | NLDC |
| 334 | 400 KV Indravati-Jeypore line | 19/03/18 | 08:00 | 19/03/18 | 18:00 | ODB | ER-II/Odisha/Indravati | Fixing of BPI structures on BPI foundation | NLDC |
| 335 | 765kV Bus Reactor-2 Main Bay (715) at Angul | 19/03/18 | 09:00 | 19/03/18 | 18:00 | ODB | ER-II/Odisha/Angul SS | AMP Work. | NLDC |
| 336 | 220KV Future Line-iv BAY CB (209 CB) at Bolangir | 19/03/18 | 09:00 | 19/03/18 | 18:00 | ODB | ER-II/Odisha /Bolangir | AMP work for 209 CB and 209 CT | |
| 337 | 220KV JEYNAGAR-II Line | 19/03/18 | 09:30 | 19/03/18 | 17:30 | ODB | ER-II/Odisha/Jeypore | For Isolator Retrofitting works (220KV Jeynagarll TBC Isolator) | GRIDCO |
| 338 | 400KV ROURKELA-SUNDARGARH#1 | 19/03/18 | 09:00 | 19/03/18 | 18:00 | ODB | II/ODISHA/ROURKELA | Retrofitting & Commissioning of its Main CB A/R Relay and Fixing of Quarter Pins/Split Pins, CC-Ring Nuts & bolts. | |
| 339 | 129MVAR B/R of Daripada SS | 19/03/18 | 09:30 | 19/02/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | AMP works | |
| 340 | 400KV ROURKELA-SUNDARGARH#3 | 20/03/18 | 09:00 | 20/03/18 | 18:00 | ODB | er- II/odisha/rourkela | Retrofitting & Commissioning of its Main CB A/R Relay and Fixing of Quarter Pins/Split Pins, CC-Ring Nuts & bolts. | |
| | | | | | | | | | |
| 341 | ICT-I (3x 105 MVA) at Jeypore | 20/03/18 | 09:30 | 20/03/18 | 17:30 | ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS | For Isolator Retrofitting works (220KV ICT I TBC Isolator) | GRIDCO |
| 341 342 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul | 20/03/18 | 09:30 | 20/03/18 20/03/18 | 17:30 18:00 | ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS | For Isolator Retrofitting works (220KV_ICT TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre | GRIDCO NLDC |
| 341 342 343 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line | 20/03/18 20/03/18 20/03/18 | 09:30 09:00 08:00 | 20/03/18 20/03/18 21/03/18 | 17:30 18:00 18:00 | ODB ODB OCB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Indravati ER- | For Isolator Retrofitting works (220KV_ICT ITBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. | GRIDCO NLDC NLDC |
| 341 342 343 344 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh | 20/03/18 20/03/18 20/03/18 20/03/18 | 09:30 09:00 08:00 08:00 | 20/03/18 20/03/18 21/03/18 20/03/18 | 17:30 18:00 18:00 18:00 | ODB ODB OCB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Indravati ER- II/Odisha/Sundergarh FR- | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work | GRIDCO NLDC NLDC NLDC NLDC |
| 341 342 343 344 345 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh | 20/03/18 20/03/18 20/03/18 20/03/18 21/03/18 | 09:30 09:00 08:00 08:00 08:00 | 20/03/18 20/03/18 21/03/18 20/03/18 21/03/18 | 17:30 18:00 18:00 18:00 18:00 | ODB ODB OCB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Indravati ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work | GRIDCO NLDC NLDC NLDC NLDC |
| 341 342 343 344 345 346 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada | 20/03/18 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 | 09:30 09:00 08:00 08:00 08:00 09:30 | 20/03/18 20/03/18 21/03/18 20/03/18 21/03/18 21/03/18 21/02/18 | 17:30 18:00 18:00 18:00 18:00 13:30 | ODB ODB OCB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Indravati ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or Interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works | GRIDCO NLDC NLDC NLDC NLDC GRIDCO |
| 341 342 343 344 345 346 346 347 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 200 kV BuS-I I at Jument | 20/03/18 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 | 09:30 09:00 08:00 08:00 08:00 09:30 10:00 | 20/03/18 20/03/18 21/03/18 20/03/18 21/03/18 21/03/18 21/02/18 21/03/18 21/03/18 | 17:30 18:00 18:00 18:00 18:00 13:30 16:00 | ODB ODB OCB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or Interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. | GRIDCO NLDC NLDC NLDC NLDC GRIDCO CONDEC |
| 341 342 343 344 345 346 346 347 348 349 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV Bus-II at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali | 20/03/18 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 | 09:30 09:00 08:00 08:00 09:30 10:00 09:30 09:00 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/03/18 21/03/18 21/03/18 21/03/18 | 17:30 18:00 18:00 18:00 18:00 18:00 18:00 18:00 13:30 16:00 13:30 17:00 | ODB ODB OCB ODB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/SARIPADA S/S ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. | GRIDCO NLDC NLDC NLDC NLDC GRIDCO GRIDCO GRIDCO |
| 341 342 343 344 345 346 346 347 348 349 350 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV BuS-II at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400KV ROURKELA-CHAIBASA#1 | 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 | 09:30 09:00 08:00 08:00 09:30 09:30 09:00 09:00 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 23/03/18 22/03/18 | 17:30 18:00 18:00 18:00 18:00 13:30 16:00 13:30 17:00 18:00 | ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Rengali ER- U/ODISHA/ROLIBKELA | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. | GRIDCO NLDC NLDC NLDC NLDC GRIDCO GRIDCO GRIDCO |
| 341 342 343 344 345 346 346 347 348 349 350 351 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV BuS-II at Jeypore 220 kV BuS-II at Jeypore 220 kV OUTCL # 1 Bay-208 at Rengali 400kV ROURKELA-CHAIBASA#1 220 kV BuS -II at Jeypore | 20/03/18 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 | 09:30 09:00 08:00 08:00 09:30 09:30 09:00 09:00 09:00 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 23/03/18 22/03/18 22/03/18 | 17:30 18:00 18:00 18:00 18:00 18:00 13:30 16:00 13:30 17:00 18:00 13:30 | ODB ODB ODB ODB ODB ODB ODB ODB OCB OCB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Angul ER- II/Odisha/Rengali ER- II/Odisha/RourkELA ER-II/Odisha/Jeypore | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of Its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II | GRIDCO NLDC NLDC NLDC NLDC GRIDCO GRIDCO GRIDCO GRIDCO GRIDCO |
| 341 342 343 344 345 346 346 347 348 349 350 351 352 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV Bus -II at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400kV ROURKELA-CHAIBASA#1 220 kV Bus -II at Jeypore 765KV 1CT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul | 20/03/18 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 | 09:30 09:00 08:00 08:00 09:30 09:30 09:00 09:00 09:00 09:00 | 20/03/18 20/03/18 21/03/18 20/03/18 21/03/18 21/02/18 21/02/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 | 17:30 18:00 18:00 18:00 18:00 18:00 13:30 16:00 13:30 18:00 18:00 13:30 18:00 18:00 13:30 18:00 | ODB ODB ODB ODB ODB ODB ODB OCB OCB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Rengali ER- II/ODISHA/ROURKELA ER-II/Odisha/Rengali ER- II/ODISHA/ROURKELA ER-II/Odisha/RourkeLA ER-II/Odisha/RourkeLA | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. | GRIDCO NLDC NLDC NLDC NLDC GRIDCO GRIDCO GRIDCO NLDC GRIDCO NLDC |
| 341 342 343 344 345 346 347 348 349 350 351 352 353 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV Bus-II at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400KV ROURKELA-CHAIBASA#1 220 kV Bus-II at Jeypore 765KV ICT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul 400 kV Bus-I at Baripada | 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 | 09:30 09:00 08:00 08:00 08:00 09:30 09:30 09:00 09:00 09:00 09:00 09:30 09:00 09:30 09:00 09:30 09:00 08:30 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 | 17:30 18:00 18:00 18:00 18:00 18:00 13:30 16:00 13:30 17:00 18:00 13:30 17:00 18:00 13:30 17:30 | ODB ODB ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Rengali ER- II/ODISh4/ROURKELA ER-II/Odisha/Rengali ER- ER-II/Odisha/RouRKELA ER-II/Odisha/RouRKELA ER-II/Odisha/RouRKELA ER-II/Odisha/RouRKELA ER-II/Odisha/RouRKELA ER-II/Odisha/RouRKELA ER-II/Odisha/RouRKELA ER-II/Odisha/BARIPADA S/S | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) | GRIDCO NLDC NLDC NLDC GRIDCO GRIDCO GRIDCO NLDC GRIDCO NLDC GRIDCO |
| 341 342 343 344 345 346 347 348 349 350 351 352 353 354 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV Bus-II at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400KV ROURKELA-CHAIBASA#1 220 kV Bus-II at Jeypore 765KV ICT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul 400 kV Bus-I at Baripada Tie Bay-714 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundararah | 20/03/18 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 | 09:30 09:00 08:00 08:00 09:30 09:30 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/02/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/02/18 22/02/18 | 17:30 18:00 18:00 18:00 18:00 18:00 13:30 16:00 13:30 17:00 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 17:30 18:00 | ODB ODB ODB ODB ODB ODB ODB OCB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Aengali ER- II/ODISHA/ROURKELA ER-II/Odisha/Rengali ER- ER-II/Odisha/Rengali ER- ER-II/Odisha/Rengali ER- II/ODISHA/ROURKELA ER-II/Odisha/Angul SS ER-II/Odisha/BARIPADA S/S ER- | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or Interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-II) For AMP work | GRIDCO NLDC NLDC NLDC GRIDCO GRIDCO GRIDCO NLDC GRIDCO NLDC NLDC NLDC NLDC |
| 341 342 343 344 345 346 347 348 347 350 351 352 353 354 355 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV BUS-I at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400KV ROURKELA-CHAIBASA#1 220 kV Bus -II at Jeypore 765KV ICT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul 400 kV Bus-I at Baripada Tie Bay-714 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh Main Bay-715 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh | 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 | 09:30 09:00 08:00 08:00 09:30 09:30 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 09:00 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/02/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/02/18 22/03/18 22/03/18 | 17:30 18:00 18:00 18:00 18:00 13:30 16:00 13:30 16:00 13:30 16:00 13:30 17:00 18:00 13:30 18:00 18:00 17:30 18:00 18:00 | ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Aengali ER- II/Odisha/Rengali ER- II/Odisha/Rengali ER- II/Odisha/Rengali ER- II/Odisha/Rengali ER- II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/BARIPADA S/S ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or Interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending OII Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) For AMP work For AMP work | GRIDCO NLDC NLDC NLDC GRIDCO GRIDCO GRIDCO GRIDCO NLDC GRIDCO NLDC NLDC NLDC NLDC |
| 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV Bus-II at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400kV ROURKELA-CHAIBASA#1 220 kV Bus-II at Jeypore 765KV 1CT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul 400 kV Bus-II at Baripada Tie Bay-714 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh Main Bay-715 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh 220 kV BUS-II at Baripada | 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 | 09:30 09:00 08:00 08:00 08:00 09:30 09:30 09:00 09:30 09:00 09:30 09:00 09:00 09:00 09:00 09:00 09:00 08:30 08:00 09:30 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/02/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 23/03/18 | 17:30 18:00 18:00 18:00 18:00 13:30 16:00 13:30 16:00 13:30 16:00 13:30 17:00 18:00 13:30 18:00 17:30 18:00 17:30 18:00 13:30 | ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Angul SS ER-II/Odisha/Aengali ER- II/Odisha/Rengali ER- II/Odisha/Rengali ER- II/Odisha/Rengali ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or Interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending OII Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) For AMP work For AMP work CVT JB replacement works | GRIDCO NLDC NLDC GRIDCO GRIDCO NLDC GRIDCO NLDC GRIDCO NLDC NLDC NLDC NLDC GRIDCO |
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| 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV Bus-II at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400KV ROURKELA-CHAIBASA#1 220 kV Bus-II at Jeypore 765KV ICT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul 400 kV Bus-II at Baripada Tie Bay-714 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh Main Bay-715 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh 220 kV BUS-II at Baripada 765kV Angul-Sundargarh Line-1 | 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 23/03/18 23/03/18 23/03/18 | 09:30 09:00 08:00 08:00 08:00 09:30 09:30 09:00 09:30 09:00 09:00 09:00 09:00 09:00 09:00 08:00 08:00 08:00 09:30 09:30 08:00 08:00 09:30 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/02/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 23/03/18 23/03/18 23/03/18 | 17:30 18:00 18:00 18:00 18:00 13:30 16:00 13:30 17:00 18:00 13:30 17:00 18:00 13:30 18:00 13:30 18:00 18:00 18:00 18:00 18:00 13:30 | ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Angul TLAM ER-II/Odisha/Angul | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or Interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) For AMP work For AMP work CVT JB replacement works Replacement of disc insulator ,Improvement & strengthtening of line Jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability. Isolator Retrofitting Works of Bus-II side Isolators of ICT-I | GRIDCO NLDC NLDC GRIDCO GRIDCO NLDC GRIDCO NLDC GRIDCO NLDC NLDC NLDC NLDC NLDC NLDC NLDC GRIDCO NLDC |
| 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV BuS-I at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400 kV ROURKELA-CHAIBASA#1 220 kV Bus-II at Jeypore 765KV (CT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul 400 kV Bus-I at Baripada Tie Bay-714 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh Main Bay-715 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh 220 kV BUS-II at Baripada 765KV Angul-Sundargarh Line-1 220 kV BuS-II at Jeypore 400KV ROURKELA-TALCHER#1 | 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 23/03/18 23/03/18 23/03/18 | 09:30 09:00 08:00 08:00 08:00 09:30 09:30 09:00 09:30 09:00 09:00 09:30 09:00 09:30 09:00 08:00 08:00 08:00 09:30 09:30 09:30 09:30 09:30 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/02/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 23/03/18 23/03/18 23/03/18 23/03/18 | 17:30 18:00 18:00 18:00 13:30 16:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 | ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/BARIPADA S/S ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/SaRIPADA S/S ER-II/Odisha/Sandergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sandergarh ER-II/Odisha/Sandergarh ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER- II/ODISHA/ROURKELA | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) For AMP work For AMP work CVT JB replacement works Replacement of disc insulator, Improvement & strengthtening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability. Isolator Retrofitting Works of Bus-II side Isolators of JCT-1 Overhauling of mechanically jammed Isolators. | GRIDCO NLDC NLDC GRIDCO GRIDCO NLDC GRIDCO NLDC GRIDCO NLDC GRIDCO NLDC NLDC NLDC GRIDCO NLDC GRIDCO NLDC GRIDCO NLDC GRIDCO |
| 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV BUS-II at Jeypore 220 kV OPTCL # 1 Bay-208 at Rengali 400 kV ROURKELA-CHAIBASA#1 220 kV Bus-II at Jeypore 765KV ICT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul 400 kV Bus-I at Baripada Tie Bay-715 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh Main Bay-715 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh 220 kV BUS-II at Baripada 765kV Angul-Sundargarh Line-1 220 kV BUS-II at Baripada 765kV Angul-Sundargarh Line-1 220 kV BUS-II at Baripada 765kV Angul-Sundargarh Line-1 220 kV BUS-II at Jeypore 400kV ROURKELA-TALCHER#1 315MVA ICT#2 at Rourkela | 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 23/03/18 23/03/18 23/03/18 23/03/18 | 09:30 09:00 08:00 08:00 08:00 09:30 09:30 09:30 09:30 09:00 09:30 09:00 09:30 09:00 09:30 09:00 09:30 09:00 08:00 08:00 09:30 09:30 09:00 09:30 09:00 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/02/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/02/18 23/03/18 23/03/18 23/03/18 23/03/18 23/03/18 | 17:30 18:00 18:00 18:00 18:00 13:30 16:00 13:30 17:00 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 18:00 18:00 | ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jandergarh ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/Jandergarh ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/ROURKELA ER-II/ODISHA/ROURKELA | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) For AMP work For AMP work CVT JB replacement works Replacement of disc insulator ,Improvement & strenghthening of line jumpers to prevent swing during h speed wind to avoid tripping in future & improvement of line availability & reliability. Isolator Retrofitting Works of Bus-II side Isolators. Overhauling of mechanically jammed Isolators. | GRIDCO NLDC NLDC GRIDCO GRIDCO GRIDCO GRIDCO NLDC GRIDCO NLDC GRIDCO NLDC GRIDCO NLDC GRIDCO GRIDCO GRIDCO |
| 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 | ICT-I (3x 105 MVA) at Jeypore 765KV SRIKAKULAM LINE 2 REACTOR BAY (726R) at Angul 400 KV Indravati-Jeypore line Main Bay-710 of 765KV Angul L/R-I at Sundargarh Tie Bay-711 of 765KV Angul L/R-I at Sundargarh 220 kV BUS-I at Baripada 765KV 240 MVAR Line Reactor-1 at Angul 220 kV BUS-I at Baripada 20 kV OPTCL # 1 Bay-208 at Rengali 400 kV ROURKELA-CHAIBASA#1 220 kV Bus-II at Jeypore 765KV (CT-2 SUNDARGARH LINE 1 TIE BAY (708) at Angul 400 kV Bus-I at Baripada Tie Bay-714 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh Main Bay-715 of 765KV Sundargarh-Dharamjaygarh Line-I at Sundargarh 220 kV BUS-II at Baripada 765KV Angul-Sundargarh Line-1 220 kV BUS-II at Baripada 765KV Angul-Sundargarh Line-1 220 kV BUS-II at Baripada 765KV ROURKELA-TALCHER#1 315MVA ICT#2 at Rourkela 220 kV Bus -II at Jeypore | 20/03/18 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 23/03/18 23/03/18 23/03/18 23/03/18 23/03/18 23/03/18 | 09:30 09:00 08:00 08:00 08:00 09:30 09:30 09:30 09:30 09:30 09:30 09:30 09:30 09:30 09:00 09:30 09:00 08:00 08:00 09:30 09:30 09:30 09:00 09:30 09:00 09:00 09:00 09:00 | 20/03/18 20/03/18 21/03/18 21/03/18 21/03/18 21/03/18 21/02/18 21/03/18 21/03/18 22/03/18 22/03/18 22/03/18 22/03/18 22/03/18 23/03/18 23/03/18 23/03/18 23/03/18 23/03/18 23/03/18 | 17:30 18:00 18:00 18:00 18:00 13:30 16:00 13:30 17:00 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 18:00 13:30 | ODB ODB ODB ODB ODB ODB ODB ODB ODB ODB | ER-II/Odisha/Jaypore ER-II/Odisha/Angul SS ER-II/Odisha/Angul SS ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore ER-II/Odisha/Jayndergarh ER- ER-II/Odisha/Sundergarh ER- II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Sundergarh ER-II/Odisha/Jeypore ER- II/ODISHA/ROURKELA ER- ER-II/Odisha/Jeypore | For Isolator Retrofitting works (220KV_ICT I TBC Isolator) AMP Work. Shifting or interchanging the position of LAs & CVTs and pre commissioning testing. For AMP work For AMP work CVT JB replacement works B-phase Reactor to be taken out of service for attending Oil Leakage by full Gasket replacement by M/s. TBEA under TBEA warranty. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar I For CB Pole overhaulling work and AMP. Retrofitting & Commissioning of its Main & Tie CB A/R Relays. Isolator Retrofitting Works of Bus-II side Isolators of Jeynagar II AMP Work. For GIS bay EXTN works(for recoonecting jumpers to GIS Bus-I) For AMP work For AMP work CVT JB replacement works Replacement of disc insulator ,Improvement & strengthtening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability. Isolator Retrofitting Works of Bus-II side Isolators of JCT-1 Overhauling of mechanically jammed Isolators. Isolator Retrofitting Works of Bus-II side Isolators of Jus-1 Isolator Retrofitting Works of Bus-II side Isolators of JCT-1 Overhauling of mechanically jammed Isolators. | GRIDCO NLDC NLDC GRIDCO GRIDCO NLDC GRIDCO NLDC GRIDCO |

| 363 | 400kV baripada-Kharagpur line | 24/03/18 | 09:30 | 24/02/18 | 13:30 | ODB | ER-II/Odisha/BARIPADA S/S | Replacement of CVT JB | WB |
|------------|---|-----------|-------|----------|----------------|------------|--|---|------------------|
| 364 | 220 KV OPTCL # 2 Bay-207 at Rengali Tie Bay-717 of 765KV Sundargarh-Dharamiaygarh Line-Lat | 24/03/18 | 09:00 | 26/03/18 | 17:00 | OCB | ER-II/Odisha/Rengali ER- | For CB Pole overhaulling work and AMP. | |
| 365 | Sundargarh Main Bay 718 of 765KV Sundargarh Dharamiaygarh Lino Lat | 24/03/18 | 08:00 | 24/03/18 | 18:00 | ODB | II/Odisha/Sundergarh | For AMP work | NLDC |
| 366 | Sundargarh | 25/03/18 | 08:00 | 25/03/18 | 18:00 | ODB | II/Odisha/Sundergarh | For AMP work | NLDC |
| 367 368 | 220 kV Bus -I at Jeypore 220 kV Bus -I at Jeypore | 25/03/18 | 09:30 | 25/03/18 | 13:30 | ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Jeypore | Isolator Retrolitting Works of Bus-Lside Isolators of Jeynagar I Isolator Retrolitting Works of Bus-Lside Isolators of Jeynagar II | GRIDCO GRIDCO |
| 369 | 315MVA ICT-I at Baripada | 26/03/18 | 09:00 | 26/02/18 | 17:30 | ODB | ER-11/Odisha/BARIPADA S/S | CT junction Box Replacement on 400 Kv AND 220 kV Side | GRIDCO |
| 370 | 400KV ROURKELA-CHAIBASA#2 | 26/03/18 | 09:00 | 26/03/18 | 18:00 | ODB | er- II/odisha/rourkela | Overhauling of mechanically jammed Isolators. | |
| 371 | 400KV ROURKELA-SUNDARGARH#2 | 27/03/18 | 09:00 | 27/03/18 | 18:00 | ODB | er- II/ODISHA/ROURKELA | Fixing of Quarter Pins/Split Pins, CC-Ring Nuts & bolts. | |
| 372 | 160 MVA ICT#1 at Baripada | 27/03/18 | 09:00 | 27/02/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CT junction Box Replacement on 220 kV Side | GRIDCO |
| 373 | 220 kV Bus -I at Jeypore 220 kV ICT # 1 Bay-201 at Rengali | 27/03/18 | 09:30 | 27/03/18 | 13:30 17:00 | ODB OCB | ER-II/Odisha/Jeypore | Isolator Retrofitting Works of Bus-I side Isolators of ICT- I | GRIDCO |
| 375 | 220 kV Bus -I at Jeypore | 28/03/18 | 09:30 | 28/03/18 | 13:30 | ODB | ER-II/Odisha/Jeypore | Isolator Retrofitting Works of Bus-I side Isolators of Bus Coupler | |
| 376 | 50MVAr Reactor of keonjhar at baripada end | 28/03/18 | 09:30 | 28/02/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | AMP works | GRIDCO |
| 377 | 400KV ROURKELA-SUNDARGARH#4 | 28/03/18 | 09:00 | 28/03/18 | 18:00 | ODB | er- II/odisha/rourkela | Fixing of Quarter Pins/Split Pins, CC-Ring Nuts & bolts. | |
| 378 | 400KV ROURKELA-SUNDARGARH#1 | 29/03/18 | 09:00 | 29/03/18 | 09:30 | ODB | er- II/odisha/rourkela | FOR ISOLATION OF LINE REACTOR | |
| 379 | 63 MVAR SUNDARGARH#1 LINE REACTOR at Rourkela | 29/03/18 | 09:30 | 29/03/18 | 17:30 | ODB | er- II/odisha/rourkela | AMP WORK OF LINE REACTOR | |
| 380 | 400KV ROURKELA-SUNDARGARH#1 | 29/03/18 | 17:30 | 29/03/18 | 18:00 | ODB | ER- II/ODISHA/ROURKELA | FOR TAKING LINE REACTOR INTO SERVICE. | |
| 381 | 220 kV Bus Coupler Bay - 203 Bay at Baripada | 29/03/18 | 09:30 | 29/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | CVT & CT junction Box Replacement | |
| 382 | 220KV JEYNAGAR-I Line 220 KV ICT # 1 Bay-202 at Rengali | 29/03/18 | 09:30 | 29/03/18 | 13:30 17:00 | ODB OCB | ER-II/Odisha/Jeypore ER-II/Odisha/Rengali | For Isolator Retrofitting works (220KV Jeynagarl 89C Isolator) For CB Pole overhaulling work and AMP | GRIDCO |
| 384 | 220KV JEYNAGAR-II Line | 30/03/18 | 09:30 | 30/03/18 | 13:30 | ODB | ER-II/Odisha/Jeypore | For Isolator Retrofitting works (220KV Jeynagarll 89C Isolator) | GRIDCO |
| 385 | 500MVA ICT #3 at Baripada | 30/03/18 | 09:30 | 30/03/18 | 17:30 | ODB | ER-II/Odisha/BARIPADA S/S | PRD replacement & Insulation sleeves work on 52 kV buhsings | GRIDCO |
| 386 | 220KV BUS-I at Rourkela | 30/03/18 | 09:00 | 30/03/18 | 18:00 | ODB | ER- II/ODISHA/ROURKELA | AMP WORK | GRIDCO |
| 387 | 220KV BUS-II at Rourkela | 31/03/18 | 09:00 | 31/03/18 | 18:00 | ODB | ER- II/ODISHA/ROURKELA | AMP WORK. | GRIDCO |
| 388 | 80 MVAR B/R of Duburi SS | 31/03/18 | 09:30 | 31/03/18 | 18:00 | ODB | er-11/Ouisna/Baripada S/S | AMP works | |
| 389 390 | ICT-I (3x 105 MVA) at Jeypore 400KV Bay 409 (ICT-II Main) at Rengali | 31/03/18 | 09:30 | 31/03/18 | 13:30 17:00 | ODB ODB | ER-II/Odisha/Jeypore ER-II/Odisha/Rengali | For Isolator Retrofitting works (220KV ICT I 89C Isolator) AMP works | GRIDCO |
| 391 | 400kv Sundargarh-Raigarh-Fdr-III | 27/02/18 | 07.00 | 10/03/18 | 17:00 | OCB | POWERGRId/odisha/SU | for rectification work of TL no-426 | |
| 392 | 400ky Sundargarh-Baigarh-Edr-IV | 27/02/18 | 08:00 | 10/03/18 | 17:00 | OCB | POWERGRId/odisha/SU | for rectification work of TL no-426 | NLDC |
| 202 | | 01/02/10 | 00.00 | 10/00/10 | 17.00 | 000 | NDARGARH POWERGRId/odisha/SU | For rectification of defects(This line is anti theft charged from | NLDC |
| 393 | 765KV Sundargarn-Dharmajayharn D/C Ckt#3&4 | 01/03/18 | 08:00 | 10/03/18 | 17:00 | ODR | NDARGARH POWERGRId/odisba/SU | Jharsuguda end) | NLDC |
| 394 | 765Kv Sundargarh-Dharmajayharh ckt-l | 09/03/18 | 08:00 | 09/03/18 | 18:00 | ODB | NDARGARH | For rectification of defects | NLDC |
| 395 | 765Kv Sundargarh-Dharmajayharh ckt-ll | 10/03/18 | 08:00 | 10/03/18 | 18:00 | ODB | POWERGRId/odisha/SU NDARGARH | For rectification of defects | NLDC |
| 396 | 765kV Angul-Sundargarh Line-I | 13/03/18 | 08:00 | 13/03/18 | 18:00 | ODB | ER-II/Odisha/Angul TLAM | Replacement of disc insulator ,Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability. | NLDC |
| 397 | 765kV Angul-Sundargarh Line-II | 14/03/18 | | 14/03/18 | 18:00 | ODB | ER-II/Odisha/Angul TLAM | Replacement of disc insulator , Improvement & strenghthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability. | NUDC |
| 398 | 400 KV Bus#2 (BRBCL) | 27/02/18 | 09:30 | 27/02/18 | 18:00 | OCB | BRBCL | DRIFT IN 400KV BUS#2 -B PAHSE- CVT SECONDARY VOLTAGE IS BEING OBSERVED WHICH REQUIRES REPLACEMENT OF THE CVT *BKRS/CKTS TO BE ISOLATED : 403-05, 403-89-A , 409-05, 409-89-A 412-CB , 412-89-A | |
| 399 | 400kv Barh Patna line -3 | 06/03/18 | | 07/03/18 | 18:00 | OCB | BARH | Attending defect of isolator & annual testing of bay equipments. | |
| 400 | 400ku Duo 1 et Deek | 00/00/14/ | 09:30 | 00/02/20 | 10.00 | 000 | DADU | Attending defect of icelator comparts the Dur | |
| 400 | 315MVA ICT#2 at Barh | 09/03/18 | 09:30 | 09/03/18 | 18:00 | OCB | BARH | Annual testing of ICT#2 | |
| | 315MVA ICT#2 BAY Equipments at Barh | 17/03/10 | 09:30 | 23/03/10 | 10.00 | 000 | DADU | | |
| 402 | | 19/03/18 | 09:30 | 23/03/18 | 18:00 | OCB | BARH | Annual testing of Bay equipments | |
| 403 404 | 400KV Kahaigaon-Banka Line-1 400KV Kahaigaon-Banka Line-2 | 21/03/18 | 09:30 | 21/03/18 | 17:30 | ODB | KAHALGAON | PM works & relay testing | |
| 405 | 400KV Kahalgaon-Barh Line-1 | 28/03/18 | 09:30 | 28/03/18 | 17:30 | ODB | KAHALGAON | PM works & relay testing | |
| 407 | 400/200kV Auto Transformer | 08/03/18 | 09:00 | 09/03/18 | 17:00 | ODB | FARAKKA | Relay & Transformer test | JUSNL |
| 408 | 220KV Fkk-Kahalgaon Line-2 | 13/03/18 | 09:00 | 14/03/18 | 17:00 | ODB | FARAKKA | Relay, CB & CT Testing | |
| 409 | 400kV Fkk-Malgaon Line-2 | 20/03/18 | 09:00 | 21/03/18 | 17:00 | ODB | FARAKKA | Relay, CB & CT Testing | |
| 411 | 400kV Fkk-Sagardighi Line | 27/03/18 | 09:00 | 28/03/18 | 17:00 | ODB | FARAKKA | Relay, CB & CT Testing | WB |
| 412 | 132kv NBU-Siliguri(PGCL) | 05/03/18 | 09:00 | 06/03/18 | 15:00 | ODB | MR | Maintenance work | |
| 413 | 220kv KLC Bantala-Subhasgram(PG) | 05/03/18 | 07:00 | 05/03/18 | 15:00 | ODB | WB | Maintenance work | | |
|-------|--|-----------|-------|------------|----------|-------------|-----------------------|---|---------|--|
| 414 | 220kv N.Town AA3-Subhasgram(PG) | 06/03/18 | 07:00 | 06/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 415 | 400 KV SGTPP-Subhasgram line & bay with line reactor at SGTPP | 01/03/18 | 07:00 | 01/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 416 | 400 KV SGTPP-Farakka line &bay | 02/03/18 | 07:00 | 02/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 417 | 400 KV SGTPP-Parulia 1 line & bay | 03/03/18 | 07:00 | 03/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 418 | 400 KV SGTPP-Parulia 2 line & bay | 04/03/18 | 07:00 | 04/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 419 | 400 KV SGTPP-Baharampur 1 line & bay | 05/03/18 | 07:00 | 05/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 420 | 400 KV SGTPP-Baharampur 2 line & bay | 06/03/18 | 07:00 | 06/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 421 | At SGTPP: 400 KV MB 1 | 07/03/18 | 07:00 | 08/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 422 | SGTPP: ST 3 & Bay | 09/03/18 | 07:00 | 09/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 423 | SGTPP: ST 4 & Bay | 10/03/18 | 07:00 | 10/03/18 | 15:00 | ODB | WB | Maintenance work | | |
| 424 | 400KV Kaniha-Meramundali # I (400 KV Bay17 – 18) | 06/03/18 | 09:00 | 08/03/18 | 18:00 | OCB | TSTPP | For annual maint activities of bay equipments | GRIDCO | |
| 425 | 400KV Kaniha-Angul (400 KV Bay19 – 20) | 13/03/18 | 09:00 | 15/03/18 | 18:00 | OCB | TSTPP | For annual maint activities of bay equipments | | |
| 426 | 400 KV Kaniha- RENGALI # 1(400 KV Bay -8,9) | 20/03/18 | 09:00 | 22/03/18 | 18:00 | OCB | TSTPP | For annual maint activities of bay equipments | | |
| 427 | 400 KV Kaniha- RENGALI # 2(400 KV Bay -16,17) | 27/03/18 | 09:00 | 29/03/18 | 18:00 | OCB | TSTPP | For annual maint activities of bay equipments | | |
| 428 | 400KV TEESTA-III-RANGPO | 13/03/18 | 21:30 | 14/03/18 | 04:30 | OCB | TEESTA-III | AMP OF TEESTA-II POTHEADYARD | | |
| 429 | 400KV TEESTA-III-DIKCHU | 15/03/18 | 21:30 | 16/03/18 | 04:30 | ODB | TEESTA-III | AMP OF TEESTA-II POTHEADYARD | | |
| 430 | 400KV D/C RTPS - Ranchi line (Ckt#2 & 3) | 05/03/18 | 08:00 | 19/04/18 | 17:00 | OCB | DVC | for tower rectification work at Loc-48 | | |
| 431 | 400 kV BUS-I at Biharsharif | 20/03/18 | 10:00 | 20/03/18 | 17:30 | ODB | POWERGRID ER-I | AMP | | |
| 432 | 400 kV BUS-II at Biharsharif | 21/03/18 | 10:00 | 21/03/18 | 17:30 | ODB | POWERGRID FR-I | AMP | | |
| 433 | 400 Kv Biharsharif-Koderma-I | 10/03/18 | 10:00 | 10/03/18 | 14:00 | ODB | POWERGRID ER-I | NTAMC adaptation work | DVC | |
| 434 | 400 Kv Biharsharif-Koderma-II | 14/03/18 | 10:00 | 14/03/18 | 14:00 | ODB | POWERGRID ER-I | NTAMC adaptation work | DVC | |
| 435 | 400 Ky Biharsharif-Lakhisarai-I | 27/02/18 | 10:00 | 27/02/18 | 14:00 | ODB | POWERGRID FR-I | NTAMC adaptation work | | |
| 436 | 400kv Talcher-Rourkela ckt#1 | 12/03/18 | 08:00 | 12/03/18 | 18:00 | ODB | POWERGRID/odisha/ | AMP | | |
| 437 | 400kv Talcher-Rourkela ckt#2 | 13/03/18 | 08:00 | 13/03/18 | 18:00 | ODB | POWERGRID/odisha/ | AMP | | |
| 438 | 315MVA ICT-II at Baripada | 06/03/18 | 09:00 | 06/03/18 | 17:00 | ODB | POWERGRID/odisha/ | AMP | | |
| 439 | 500 mva ICT#1 AT PATNA | 19/03/18 | 09:00 | 23/03/18 | 17:00 | ODB | POWERGRID ER-I | To attend manufacturing defect of gaskets of various joints. | BSPHCL | |
| 440 | 400 KV BERHAMPUR-JEERAT | 08/03/18 | 09:00 | 10/03/18 | 17:00 | ODB | ER-II | FOR CONSTRUCTION ACTIVITY UNDER ERSS-XV. | | |
| 441 | 400 KV BERHAMPUR-FARAKKA | 08/03/18 | 09:00 | 14/03/18 | 17:00 | OCB | ER-II | FOR SHIFTING OF EXISTING BAYS TO NEWLY CONSTRUCTED BAY UNDER ERSS- XV AT BERHAMPUR SS. | | |
| 442 | 400 KV BUS-I | 10/03/18 | 09:00 | 10/03/18 | 17:00 | ODB | ER-II | FOR STABILITY TEST OF NEW BAYS TO NEWLY CONSTRUCTED BAY UNDER ERSS-XV AT BERHAMPUR SS. | | |
| 443 | 410 BAY OF BERHAMPUR SS | 26.03.18 | 09:00 | 26.03.18 | 17:00 | ODB | ER-II | AMP | | |
| 444 | 400 KV FARAKKA-SGTPP & 400 KV SUBHASGRAM- SAGARDIGHI | 25.02.18 | 09:00 | 26.02.18 | 17:00 | ODB | ER-II | FOR POWERLINE CROSSING WORK UNDER ERSS-XV. | | |
| 445 | 220 KV BIRPARA-ALIPURDUAR-I | 02.03.18 | 09:00 | 03.03.18 | 17:00 | ODB | ER-II | FOR REPLACEMENT OF DAMAGED INSULATOR BY MISCREANTS | | |
| 446 | 220 KV BIRPARA-ALIPURDUAR-II | 04.03.18 | 09:00 | 05.03.18 | 17:00 | ODB | ER-II | FOR REPLACEMENT OF DAMAGED INSULATOR BY MISCREANTS | | |
| 447 | 400 KV BINAGURI-TALA-I | 02.03.18 | 09:00 | 05.03.18 | 17:00 | ODB | ER-II | FOR REPLACEMENT OF THEFT CONDUCTOR . | | |
| 448 | 400 KV BINAGURI-TALA-II | 06.03.18 | 09:00 | 09.03.18 | 17:00 | ODB | ER-II | FOR REPLACEMENT OF THEFT CONDUCTOR . | | |
| 449 | 400 KV BINAGURI-TALA-III | 10.03.18 | 09:00 | 13.03.18 | 17:00 | ODB | ER-II | FOR REPLACEMENT OF THEFT CONDUCTOR . | | |
| 450 | 400 KV BINAGURI-TALA-IV | 14.03.18 | 09:00 | 17.03.18 | 17:00 | ODB | ER-II | FOR REPLACEMENT OF THEFT CONDUCTOR . | | |
| 451 | Auto reclose to be non auto mode 765 Angul-Jharsuguda ckt#2 | 15/03/18 | 08:00 | 23/03/18 | 18:00 | ODB | ER-II | for OPGW rectification work | | |
| 452 | 400KV ANGUL-JITPL CKT#1  | 08/03/18 | 08:00 | 09/03/18 | 18:00 | OCB | ER-II/ODISHA PROJECTS | FOR STRINGING OF ANGUL-JHARSUGUDA CKT#3 & #4 | | |
| | | | | | | | | | | |
| | | | Outag | es propose | d in oth | ner RPCs re | quiring ERPC app | proval | | |
| | Name of Elements | Fr | om | То | | Basis | outages proposed in | Reason | Remarks | |
| SI No | | Date | Time | Date | Tíme | | 3 | | | |
| | AGRA-BISHWANATH CHARIALI POLE-1 &2 & APD-3&4 | 15-Mar-18 | 09:00 | 25-Mar-18 | 18:00 | Continuous | NRPC | FOR SHIFTING OF LINE TO PILE FOUNDATION AT LOC 1787 |] | |

| | Name of Elements | 10 | | Dacie | outages proposed in | Boscon | Domarke | | |
|-------|---|-----------|-------|-----------|---------------------|------------|---------------------|--|------------|
| SI No | | Date | Time | Date | Time | Dasis | outages proposed in | Reason | Reffidires |
| | AGRA-BISHWANATH CHARIALI POLE-1 &2 & APD-3&4 | 15-Mar-18 | 09:00 | 25-Mar-18 | 18:00 | Continuous | NRPC | FOR SHIFTING OF LINE TO PILE FOUNDATION AT LOC 1787 | |
| | CWC35 (Pole-1 South Filter) at Gazuwaka SS | 23-Feb-18 | 09:00 | 23-Feb-18 | 18:00 | Continuous | SRPC | AMP Works | |
| | WA2.Z11.Q4 (Pole 2 East Reactor) at Gazuwaka SS | 06-Mar-18 | 09:00 | 12-Mar-18 | 18:00 | Continuous | SRPC | For overhauling works on interrupter & pole column | |
| | 220 Korba-Budhipadar Feeder No-2 at KTPS, Korba East. | 08-Mar-18 | 08:00 | 09-Mar-18 | 17:30 | Cont. | WRPC | Annual Maintenance | |
| | 765 D'JAIGARH-RANCHI II | 05-Mar-18 | 08:00 | 07-Mar-18 | 18:00 | Daily | WRPC | Replacement of Broken Insulator | |
| | 765 D'JAIGARH-RANCHI II | 09-Mar-18 | 09:00 | 09-Mar-18 | 18:00 | Daily | WRPC | First time swapping of (Non-switachble) Y-phase line reactor unit with Spare unit. | |
| | 765 D'JAIGARH- JHARSUGUDA I | 12-Mar-18 | 09:00 | 12-Mar-18 | 18:00 | Daily | WRPC | For Replacement of Line Earth switch with the new E/S supplied with induced contacts by OEM | |
| | 765 D'JAIGARH-RANCHI I | 13-Mar-18 | 08:00 | 15-Mar-18 | 18:00 | Daily | WRPC | Replacement of Conventional Insulators with Polymer insulators in major crossings line Power, River, N.H., S.H., Railway Crossings for public safety. AR in Non Auto Mode for other ckt will be required during above period. | |
| | 765 D'JAIGARH- JHARSUGUDA I | 23-Mar-18 | 09:00 | 25-Mar-18 | 18:00 | Daily | WRPC | Replacement of Conventional Insulators with Polymer insulators in major crossings line Power, River, N.H., S.H., Railway Crossings for public safety. AR in Non Auto Mode for other ckt will be required during above period. | |
| | 765 D'JAIGARH- JHARSUGUDA II | 26-Mar-18 | 09:00 | 28-Mar-18 | 18:00 | Daily | WRPC | Replacement of Conventional Insulators with Polymer insulators in major crossings line Power, River, N.H., S.H., Railway Crossings for public safety. AR in Non Auto Mode for other ckt will be required during above period. | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| L | | | | | l | | | | |
| | | | | | | | | | |
| | | 1 | | | 1 | | 1 | | |

| Det | ails of stations/U | Whether operating under RGMO | indicate in case of status is not available | | | | | |
|---------------|--------------------|---------------------------------------|--|-----------------|------------------------|-------------------------------|------------|---|
| Name of State | Туре | Name of Uitlity | Sector (CS/SS/P rivate) | Name of Station | Name of Stage/ Unit | Installed capacity (MW) | | |
| | Thermal | TVNL | SS | Tenughat | 1 | 210 | No | Difficulties in implementing |
| JHARKHAND | Hydro | ISEB | SS SS | Subarprekha | 1 | 65 | Yes | |
| | Tiydro | JOLD | SS | Gubarniekna | 2 | 65 82.5 | Yes | |
| | | | SS | | 2 | 82.5 | No | |
| | | | SS | Bandel TPS | 3 | 82.5 | No | |
| | | | SS | | 5 | 210 | No | |
| | | | SS | Operated with | 5 | 250 | No | Unit#6 could not be |
| | | | SS | Santaidin | 6 | 250 | No | implemented because of some technical problem |
| | | | SS SS | 4 | 1 | 210 | No No | Nil |
| | | | SS | Kolaghat | 3 | 210 | No | Nil |
| | Termal | WBPDCL | SS | Kolaghat | 4 | 210 | No | Nil |
| | | | SS | | 6 | 210 | No | Nil |
| | | | SS | Bakroshwar | 1 | 210 | Yes | |
| WEST BENGAL | | | SS | | 2 | 210 | Yes | |
| WEOT BENGAE | | | SS | Dakiesiiwai | 4 | 210 | Yes | |
| | | | SS | | 5 | 210 | Yes | |
| | | | SS | Sagardighi | 2 | 300 | No | rot possible to put in FGMO/RGMO. At present OEM support is not |
| | | | SS | | 1 | 225 | Yes | |
| | Hydro | | SS SS | PPSP | 2 | 225 225 | Yes | In 134th OCC WBPDCL |
| | | | SS | | 4 | 225 | Yes | in RGMO/FGMO mode |
| | | CESC | SS | Budgo Budgo | 1 | 250 | Yes | |
| | Thermal | | SS | виаде-виаде | 3 | 250 | Yes | |
| | | | SS | Haldia | 1 | 300 | Yes | |
| | Thermal | DPI | SS SS | DPI | 2 | 300 300 | Yes Yes | |
| | | OPGC | SS | IB TPS | 1 | 210 | No | Not adequate response in |
| | | 01 00 | SS | 15 11 0 | 2 | 210 | No | RGMO |
| | | | SS | | 2 | 49.5 | No | |
| | | | SS | Develo | 3 | 32 | No | |
| | | | SS SS | Buna | 4 5 | 32 | NO | |
| | | | SS | | 6 | 37.5 | No | |
| | | | SS | | 7 | 37.5 60 | No No | |
| | | | SS | | 2 | 60 | No | |
| | | | SS | | 3 | 60 | No | |
| | | | SS | Balimela | 5 | 60 | No | |
| Orissa | | | SS | | 6 | 60 | No | |
| | Hydro | OHPC | <u> </u> | 1 | / 8 | 75 75 | No No | |
| | | | SS | | 1 | 50 | No | |
| | | | SS | Pongoli | 2 | 50 | No | |
| | | | SS | Kengali | 4 | 50 | No | |
| | | | SS | 1 | 5 | 50 | No | |
| | | | SS | 4 | 1 | 80 80 | No No | |
| | | | SS | Upper Kolab | 3 | 80 | No | |
| | | | SS | | 4 | 80 | No | |
| | | 1 | SS | J | 1 | 150 | No | |

Annexure-E1

Annexure-E1

| 1 | 1 | 1 | 88 | I I | 2 | 150 | No | |
|----------------|---------|------|----------|--------------------|---|-----|-----|---|
| | | | 33 | Indravati | 2 | 150 | No | |
| | | | 33 | | 3 | 150 | No | |
| | | 1 | 33 | l I | 4 | 150 | INU | |
| | | | 64 | | | | | |
| | | | CS | Bokaro-A | 1 | 500 | No | RGMO will be service once the unit comes in CMC mode of operation. It will be done shortly in presence of BHEL experts. |
| | | | CS | | 1 | 210 | No | Not possible due to non availability of Electro |
| | | | CS | Bokaro-B | 2 | 210 | No | hydraulic governing. The |
| | | | CS | | 3 | 210 | No | decommissioned shortly. |
| | | | CS | | 2 | 140 | No | Not possible due to non availability of Electro |
| | | | CS | CTPS | 3 | 140 | No | hydraulic governing. The units will be decommissioned shortly. |
| | | | CS | | 7 | 250 | Yes | |
| | | | CS | | 8 | 250 | Yes | |
| | Thermal | DVC | CS | DTPS | 4 | 210 | No | Not possible due to non availability of Electro hydraulic governing. The units will be decommissioned shortly. |
| | | | CS | | 1 | 210 | No | Not possible due to non |
| | | | CS | | 2 | 210 | No | availability of Electro |
| | | | CS | Mejia | 3 | 210 | No | Action has been initiated to put in RGMO, but testing is not yet completed. |
| | | | CS | | 4 | 210 | Yes | |
| | | | CS | | 5 | 250 | Yes | |
| Central Sector | | | CS | | 6 | 250 | Voc | |
| Central Cector | | | 00 | | 7 | 500 | Yes | |
| | | | 00 | Mejia - B | / | 500 | Yes | - |
| | | | | | 8 | 500 | Yes | |
| | | | CS | DSTPS | 1 | 500 | Yes | _ |
| | | | CS | | 2 | 500 | Yes | |
| | | | CS | | 1 | 500 | Yes | |
| | | | CS | KODERMA | 2 | 500 | Yes | |
| | | | CS | DTDC | 1 | 600 | Yes | |
| | | | CS | KIF3 | 2 | 600 | Yes | |
| | Lhudro | | CS | Developt | 1 | 40 | No | RGMO mode of operation |
| | Hydro | | CS | Panchet | 2 | 40 | No | would not be possible for |
| | | | CS | | 1 | 200 | Yes | · |
| | | | CS | Farakka STPP-I | 2 | 200 | Yes | |
| | | | <u> </u> | | 3 | 200 | Yes | |
| | | | | | 1 | 500 | Vos | |
| | | | <u> </u> | Farakka STPP-II | 2 | 500 | Ves | |
| | | | CS | Farakka-U#6 | L | 500 | Yes | Kept in RGMO mode from April, 2014 |
| | | | CS | | 1 | 210 | Yes | |
| | Thermal | NTPC | CS | | 2 | 210 | Yes | |
| | | | CS | | 3 | 210 | Yes | |
| | | | CS | Kahalgoan STPP | 4 | 210 | Yes | |
| | | | CS | | 5 | 500 | Yes | |
| | | | CS | | 6 | 500 | Yes | |
| | | | CS | | 7 | 500 | Yes | |
| | | | CS | Talchor STDD C+~ 1 | 1 | 500 | Yes | |
| | | | CS | Taicher STPP Stg-I | 2 | 500 | Yes | |
| | | | CS | Barh | 5 | 660 | Yes | |
| | | | CS | Barh | 6 | 660 | Yes | |
| | | | CS | | 1 | 170 | Yes | 1 |
| | Hvdro | NHPC | CS | Teesta HFP | 2 | 170 | Yes | |
| | ., | | CS | | 3 | 170 | Yes | |
| | | | 45 | | | | - | |
| | | Ī | PS | | 1 | 525 | Yes | |
| | | | PS | Maithon RB TPP | 2 | 525 | Yes | 1 |
| | | | PS | | 1 | 600 | Yes | |
| | | | PS | | 2 | 600 | Yes | 1 |
| | Thermal | IPP | PS | Sterlite | 3 | 600 | Yes | |
| | | | PQ | | 1 | 003 | Yes | |
| | | | | | 4 | 270 | Vac | + |
| | | | P0 | Adhunik Power | 1 | 270 | Vac | 4 |
| | | | 42 | | 2 | 270 | res | |

Annexure-E1

| | | IPP | PS | | 1 | 48 | No | (RoR project with 3 hours |
|-----|-------|-----|----|---------------|---|------|----|-------------------------------------|
| IPP | | | PS | JLIILF | 2 | 48 | No | pondage) |
| | | | PS | Chuisshan HER | 1 | 49.5 | No | (RoR project with 3 hours |
| | | | PS | Chujachen nEr | 2 | 49.5 | No | pondage) |
| | Hydro | | PS | Teesta Urja | 1 | 200 | No | could be put in RCMO |
| | | | PS | | 2 | 200 | No | mode but because of |
| | | | PS | | 3 | 200 | No | transmission evacuation |
| | | | PS | | 4 | 200 | No | constraint RGMO/FGMO is disabled |
| | | | PS | | 5 | 200 | No | |
| | | | PS | | 6 | 200 | No | |
| | | | PS | Dikobu | 1 | 48 | No | (RoR project with 3 hours |
| | | | PS | DIKCHU | 2 | 48 | No | pondage) |
| | | | 20 | | | | | |

Protection & Control System SI. Substation Availability Time Synchronization Remarks NO EL DR GPS Relay DR EL Yes Yes 1 Subhasgram Yes Yes Yes Yes 2 Maithon Yes Yes Yes Yes Yes Yes 3 Yes Durgapur Yes Yes Yes Yes Yes 4 Malda Yes Yes Yes Yes Yes Yes 5 Dalkhola Yes Yes Yes Yes Yes Yes 6 Siliguri Yes Yes Yes Yes Yes Yes Binaguri 7 Yes Yes Yes Yes Yes Yes Yes 8 Birpara Yes Yes Yes Yes Yes 9 Gangtok Yes Yes Yes Yes Yes Yes 10 Baripada Yes Yes Yes Yes Yes Yes Rengali Yes 11 Yes Yes Yes New EL would be implemented Yes No in BCU under NTAMC project by March'2015 Indravati (PGCIL) EL is old one(model-PERM 200), 12 Yes Yes Yes Yes Yes No provision for time synchronisation is not available. New EL would be implemented in BCU under NTAMC project by March'2015 13 Jeypore Yes Yes Yes Yes Yes Yes EL is old and not working satisfactorily. New EL would be implemented in BCU under NTAMC project by March, 2015 Talcher Yes Yes Yes Yes Yes Yes 14 15 Rourkela Yes Yes Yes Yes Yes Yes Bolangir 16 Yes Yes Yes Yes Yes Yes 17 Patna Yes Yes Yes Yes Yes Yes Ranchi 18 Yes Yes Yes Yes Yes Yes 19 Muzaffarpur Yes Yes Yes Yes Yes Yes 20 Jamshedpur Yes Yes Yes Yes Yes Yes New Purnea 21 Yes Yes Yes Yes Yes Yes Gaya 22 Yes Yes Yes Yes Yes Yes Banka 23 Yes Yes Yes Yes Yes Yes Biharsariif 24 Yes Yes Yes Yes Yes Yes 25 Barh Yes Yes Yes Yes Yes Yes 26 Sagardighi No Yes Yes Yes Yes No EL is under process of restoration with help from OEM, China 27 Kahalgaon Yes Yes Yes Yes Yes Yes Farakka Time synchronization available for 28 Yes Yes No No No No Farakka-Kahalgaon line-III & IV. The same will be implemented in rest of the lines by December, 2014. Meramundali 29 Defunct Yes Yes Yes Yes Yes Tisco 30 Yes Yes Yes Yes Yes Yes 31 Bidhannagar No Yes Yes No No No Using DR & EL available in Numerical

AVAILABILITY STATUS OF EVENT LOGGER, DISTURBANCE RECORDER & GPS

| | | | | | | | | relays. GPS will be put in service by |
|----|---------------------|---------|--------|-----|-----|-----|-----|--|
| | | | | | | | | January, 2015. |
| 32 | Indravati (OHPC) | Yes | Faulty | No | No | No | No | Time synchronization will be done by Feb, 2015. ICT-I feeders using DR & EL available in Numerical relays. 400 kV ICT-II feeder is being maintained by PGCIL, Mukhiguda.Status may confirm |
| 22 | Kharagpur | Ne | Vee | Vaa | Na | Na | No | IFOM PGCIL |
| 33 | кпагаури | NO | res | res | NO | NO | NO | relays. |
| 34 | DSTPS | Yes | Yes | Yes | Yes | Yes | Yes | |
| 35 | Sterlite | Yes | Yes | Yes | Yes | Yes | Yes | |
| 36 | Mejia 'B' | Yes | Yes | Yes | Yes | Yes | Yes | |
| 37 | Mendhasal | Defunct | Yes | Yes | Yes | Yes | No | EL will be restored by March, 2015. |
| 38 | Arambagh | No | Yes | Yes | No | No | No | Using DR & EL available in Numerical relays |
| 39 | Jeerat | No | Yes | No | No | No | No | Using DR & EL available in Numerical relays. Procurement of new GPS is in progress. |
| 40 | Bakreswar | Yes | Yes | Yes | Yes | Yes | Yes | |
| 41 | GMR | Yes | Yes | Yes | Yes | Yes | Yes | |
| 42 | Maithon RB | Yes | Yes | Yes | Yes | Yes | Yes | |
| 43 | Raghunathpur | Yes | Yes | Yes | Yes | Yes | Yes | |
| 44 | Kolaghat | Yes | Yes | Yes | Yes | Yes | Yes | |
| 45 | Teesta V | Yes | Yes | Yes | Yes | Yes | Yes | |
| 46 | Koderma | Yes | Yes | Yes | Yes | Yes | Yes | |
| 47 | Sasaram | Yes | Yes | Yes | Yes | Yes | Yes | |
| 48 | Rangpo | Yes | Yes | Yes | Yes | Yes | Yes | |
| 49 | Adhunik | Yes | Yes | Yes | Yes | Yes | Yes | |
| 50 | JITPL | Yes | Yes | Yes | Yes | Yes | Yes | |
| 51 | 765kV Angul | Yes | Yes | Yes | Yes | Yes | Yes | |
| 52 | Chuzachen | Yes | Yes | Yes | No | Yes | Yes | |
| 53 | New Ranchi 765kV | Yes | Yes | Yes | Yes | Yes | Yes | |
| 54 | Lakhisarai | Yes | Yes | Yes | Yes | Yes | Yes | |
| 55 | Chaibasa | | | | | | | |
| 56 | 765kV Jharsuguda | Yes | Yes | Yes | Yes | Yes | Yes | All are in working condition. However a dedicated DR for 765KV Lines; make TESLA is not working. M/s Siemens has assured to commission the same by 31.01.15 |
| 57 | Beharampur | Yes | Yes | Yes | Yes | Yes | Yes | |
| 58 | Keonjhar | Yes | Yes | Yes | Yes | Yes | Yes | |

Eastern Regional Power Committee

The status of ERS towers in Eastern Region as updated in OCC meetings is given below:

1) ERS towers available in Powergrid S/s is as given below:

| SI. No. | Name of S/S | No. of ERS towers available | ERS towers in use |
|------------|------------------------------|---|-------------------|
| 1 | Durgapur, ER-II | 1 Set (8 towers) | |
| 2 | Rourkela, ER-II | 3 towers incomplete shape | |
| 3 | ER-I (located at Jamshedpur) | 15 towers (10 nos Tension tower and 5 nos suspension tower) | |

- 2) The present status of ERS towers in OPTCL system is as follows:
- > 220 kV ERS towers: 42 nos located at Mancheswar, Chatrapur & Budhipadar
- > 400 kV ERS towers: 2 nos located at Mancheswar.
- > 12 nos. of new 400 kV ERS towers have been recieved.

Another, 16 nos of 400 kV towers accompanied with 6 sets of T&P are required which is under ➤ process

- 3) WBSETCL informed that they have placed order for 2 sets of ERS towers on 31.10.2014 and expected by June, 2015.
- 4) The 25th ERPC meeting held on 21.09.2014, the board concurred to the proposal of procurement of four sets of ERS and it was also informed that, the proposed four sets of ERS will be kept at Sikkim, Siliguri, Ranchi and Gaya and will be used by all constituents of ER during emergencies.

Powergrid informed that four sets of ERS for Eastern Region will be procured.

5) DVC informed that they are in process of procuring two (2) sets of 400 kV ERS towers.

Availability of Emergency Restoration System in BSPTCL system

| Sl. No. | Туре | Quantity | Remarks |
|---------|----------------------|----------|--------------------|
| 1 | Tension ERS Tower | 12 | New |
| 2 | Suspension ERS Tower | 20 | New |
| 3 | Old ERS Tower | 10 | 1 no. is defective |
| | Total | 42 | |

Note:-

- As informed in ERS meeting held on 10-11-2014 taken by Member (Power System), CEA; 2 sets (12 tension & 20 suspension) of ERS towers had been procured and is currently available in our system (as mentioned in above table with remarks "New").
- Same ERS tower is used in both 220 Kv and 132 kV circuits.

Annexure-E10.3

| MOP/POSOCO/NLDC/RLDC/ SLDC | Name | Designation | Tel. Nos. | Mobile No. | Fax No. | E-mail Address |
|-------------------------------|------------------------|---------------------------------|-----------------------|------------|---------------|----------------------------|
| SLDC OPTCL | | | | | | |
| Nodal Officer | Sh M R Mohanty | Sr. GM, SLDC | | 9438907310 | | sldcgridco@yahoo.com |
| SLDC W.B. | | | | | | |
| Nodal Officer | Sh. A.RaiChoudhuri | C.E, SLDC | 033- 26887186 | 9434910021 | 033- 26886132 | wbsldc-power@yahoo.co.in |
| SLDC Ranchi, Jharkhand | | | | | | |
| Nodal Officer | Md Shakeel Ahamed | ESE, SLDC | 0651-2490090/ 2490486 | 9430730503 | 0651-2490486 | sldcranchi@gmail.com |
| Second in Command | Shri S. K. Mishra | E.S.E. (Trans) | 0651-2490090/ 2490863 | 9431708981 | 0651-2490486 | sldcranchi@gmail.com |
| SLDC Ptana, Bihar | | | | | | |
| Nodal Officer | Sh Prabhat Kumar Govil | Chiief Engineer (Head of SLDC) | | 7763817701 | 0612-2504557 | cetransom.bsptcl@gmail.com |
| | | | | | | |
| SLDC DVC | | | | | | |
| Nodal Officer | Sh. B.Pan | C.E.(SO), CLD, Maithon | 06540- 252423 | 9903247102 | 06540-274838 | brahmananda.pan@dvc.gov.in |
| SLDC J&K | | | | | | |
| Nodal Officer | Sh. Shahnaz Goni | CE/ M & RE Wing | 0191-2554426 | 9419191674 | 0191-2505708 | cemrejammu2@gmail.com |
| Nodal Officer | Sh. Umesh Parihar | XEN (LD) | 0191-2475371 | 9419185439 | 0191-2475371 | |
| SLDC PUNJAB | | | | | | |
| Nodal Officer | Sh. G. S. Sohi | CE (SO) | 0175-2653660 | 9646118001 | 0175-2365340 | ce_sldc@pstcl.org |
| Second in Command | Sh. S. S. Mall | SE (SO) | 0175-2366074 | 9646118004 | 0175-2365340 | se_sldcop@pstcl.org |
| SLDC BBMB | | | | | | |
| Nodal Officer | Sh. Ashok Ghai | Director (Power Regulation) | 0172-2652820 | 9417216047 | 0172-2652820 | dirpr@bbmb.nic.in |
| Second in Command | Sh. Kuldeep Singh | Sr. XEN/ Add. SE (Power | 0172-2659324 | 9417200352 | 0172-2652820 | powerc@bbmb.nic.in |
| SLDC CHANDIGARH | | | | | | |
| Nodal Officer | Sh. Sunil Sharma | P.C. Cum Executive Engineer | 0172-2655531 | 8054104511 | 0172-2637880 | elop2_chd@nic.in |
| Second in Command | Sh. Surendra | APC cum AEE | 0172-2637880 | 8054104512 | 0172-2637880 | apc_chandigarh@hotmail.com |
| SLDC DELHI | | | | | | |
| Nodal Officer | Sh. P. K. Gupta | GM (SLDC) | 011-23221091 | 9999533626 | 011-23221069 | psdpvr2012@gmail.com |
| Second in Command | Sh. V. Venugopal | DGM (SO) | 011-23221175 | 9871093902 | 011-23221059 | dtldata@rediffmail.com |
| SLDC HARYANA | | | | | | |
| Nodal Officer | Sh. Rajesh Gupta | Chief Engineer (SO) | 0172-2560547 | 9313472673 | 0172-2560622 | hvpncecoml@yahoo.com |
| Second in Command | Sh. N.K.Makkar | EE (LD & PC) | 0180-2661515 | 9300278204 | 0180-2670819 | sldcharyanacr@gmail.com |

Annexure-E10.5A

| List of Meter a | & Location fo | r AMR 4th Phase |
|-----------------|---------------|-----------------|
|-----------------|---------------|-----------------|

| ş | S.No | MAKE | Meter Serial No | LOCATION | | S.No | MAKE |
|----------|------|--------|--------------------|--------------------|----------|----------|--------|
| | 1 | L&T | NP-7885-A | | | 69 | GENUS |
| | 2 | L&T | NP-7886-A | | | 70 | GENUS |
| | 3 | L&T | NP-7429-A | | | 71 | GENUS |
| | 4 | L&T | NP-7429-A | | | 72 | GENUS |
| | 5 | L&T | NP-7887-A | LAKHISARAI(PG) | | 73 | GENUS |
| | 6 | L&T | NP-7430-A | | | 74 | GENUS |
| | 7 | L&T | NP-7888-A | | | 75 | GENUS |
| | 8 | L&T | NP-7431-A | | | 76 | GENUS |
| | 9 | ELSTER | NR-4451-A | | 1 [| 77 | GENUS |
| | 10 | ELSTER | NR-4452-A | | | 78 | GENUS |
| | 11 | ELSTER | NR-3717-A | | | 79 | GENUS |
| | 12 | ELSTER | NR-4622-A | | | 80 | GENUS |
| | 13 | ELSTER | NR-4625-A | | | 81 | GENUS |
| | 14 | ELSTER | NR-4447-A | | | 82 | GENUS |
| | 15 | ELSTER | NR-4446-A | | | 83 | GENUS |
| | 16 | ELSTER | NR-3725-A | | | 84 | GENUS |
| | 17 | ELSTER | NR-4617-A | ALIPURDUAR(PG) | | 85 | GENUS |
| | 18 | ELSTER | NR-3716-A | | | 86 | GENUS |
| | 19 | FLSTER | NR-3718-A | | - | 87 | GENUS |
| | 20 | GENLIS | FR-1104-A | | - | 88 | GENUS |
| - | 20 | GENUS | ER-1146-A | • | | 89 | GENUS |
| _ | 27 | GENUS | ER-1005-A | | - | 90 | GENUS |
| - | 22 | GENUS | ER-1005-A | | | 01 | GENUS |
| - | 24 | GENUS | ER-1000-A | | | 02 | CENIUS |
| - | 24 | GENUS | ER-1002-A | | - | 72 | GENUS |
| - | 25 | ELSTED | ER 1205 A | | ┥┝ | 0/ | CENUS |
| - | 20 | CENIUS | ER-1293-A | | - | 74 05 | GENUS |
| | 27 | GENUS | ER-1156-A | KISHANGANJ(BSPTCL) | - | 75 | CENIUS |
| - | 20 | GENUS | ER-1150-A | | - | 90 | GENUS |
| | 27 | GENUS | ED 1297 A | | <i>"</i> | 77 | CENIUS |
| | 21 | GENUS | ER-1207-A | NPGC(BSPTCL) | eters | 90 | CENIUS |
| - | 22 | GENUS | ER-1202-A | | ž | 100 | GENUS |
| - | 32 | GENUS | ER-1052-A | | - 96 | 100 | GENUS |
| _ | 33 | GENUS | ER-1063-A | • | wit | 101 | GENUS |
| _ | 34 | GENUS | ER-1027-A | • | suc | 102 | GENUS |
| _ | 35 | GENUS | ER-TITZ-A | • | atic | 103 | GENUS |
| | 30 | GENUS | ER-1026-A | OPGC | Ľ | 104 | GENUS |
| | 37 | GENUS | ER-1030-A | • | ev | 105 | GENUS |
| | 38 | GENUS | ER-1053-A | • | 16 N | 105 | GENUS |
| _ | 39 | GENUS | ER-1066-A | • | | 107 | GENUS |
| _ | 40 | GENUS | ER-1068-A | • | - | 108 | GENUS |
| _ | 41 | GENUS | ER-1060-A | | ┥┝ | 109 | GENUS |
| \vdash | 42 | ELSIER | NR-3/14-A | 1 | | 110 | GENUS |
| _ | 43 | ELSTER | NR-3/15-A | - | - | 111 | ELSTER |
| _ | 44 | ELSTER | NR-4450-A | - | - | 112 | ELSTER |
| _ | 45 | ELSTER | NR-3/20-A | | - | 113 | GENUS |
| _ | 46 | ELSTER | NR-4623-A | TEESTA-III | - | 114 | L&I |
| _ | 47 | ELSTER | NR-3/19-A | | - | 115 | GENUS |
| | 48 | ELSTER | NR-4456-A | | | 116 | GENUS |
| | 49 | ELSTER | NR-4618-A | | | 11/ | GENUS |
| | 50 | ELSTER | NR-4454-A | | | 118 | GENUS |
| - | 51 | ELSTER | NR-4453-A | | ┥┟ | 119 | GENUS |
| \vdash | 52 | GENUS | ER-1250-A | MOTIHARI(BSPTCL) | | 120 | GÉNUS |
| | 53 | GENUS | ER-1245-A | | ╡┟ | 121 | GENUS |
| | 54 | GENUS | ER-1286-A | MOTIPUR(BSPTCL) | | 122 | GENUS |
| | 55 | GENUS | ER-1288-A | | 4 | 123 | GENUS |
| | 56 | GENUS | ER-1111-A | ATRI(GRIDCO) | | 124 | GENUS |
| | 57 | GENUS | ER-1007-A | . , | 4 | 125 | GENUS |
| | 58 | GENUS | ER-1248-A | RAXAUL(BSPTCL) | | 126 | GENUS |
| | 59 | GENUS | ER-1249-A | | JL | 127 | GENUS |

| S.No | MAKE | Meter Serial No | LOCATION |
|-----------|---------|--------------------|------------------------|
| 69 | GENUS | FR-1290-A | APNRL |
| 70 | GENUS | ER-1135-A | |
| 70 | GENUS | ER-1140-A | BERHAMPORE(PG) |
| 70 | CENIUS | ER 1265 A | BIHARSHARIFF(PG) |
| 72 | CENIUS | ER-1205-A | Dirivitorivitari (i Oj |
| 73 | GENUS | ER-1100-A | |
| 74 | GENUS | ER-1102-A | RINAGURI(PG) |
| 75 | GENUS | ER-1076-A | |
| /6 | GENUS | ER-1128-A | |
| 11 | GENUS | ER-1125-A | |
| 78 | GENUS | ER-1106-A | |
| 79 | GENUS | ER-1109-A | BIRPARA(PG) |
| 80 | GENUS | ER-1110-A | |
| 81 | GENUS | ER-1071-A | DALKHOLA(PG) |
| 82 | GENUS | ER-1072-A | |
| 83 | GENUS | ER-1166-A | DARBHANGA(DMTCL) |
| 84 | GENUS | ER-1263-A | GAYA(PG) |
| 85 | GENUS | ER-1170-A | 2(. 2) |
| 86 | GENUS | ER-1297-A | IAMSHEDPLIR(PG) |
| 87 | GENUS | ER-1215-A | |
| 88 | GENUS | ER-1043-A | KHARAGPUR(WB) |
| 89 | GENUS | NR-4615-A | |
| 90 | GENUS | NR-4434-A | |
| 91 | GENUS | ER-1293-A | |
| 92 | GENUS | ER-1296-A | KISHANGANJ(PG) |
| 93 | GENUS | ER-1159-A | |
| 94 | GENUS | FR-1154-A | |
| 95 | GENUS | ER-1143-A | |
| 96 | GENUS | ER 1143 A | MALDA(PG) |
| 07 | GENUS | ER-11008-A | |
| 00 | CENIUS | ER-1000-A | MEJIA(DVC) |
| 90 | GENUS | ER-1031-A | |
| 99 100 | GENUS | ER-1055-A | MIRAMUNDALI(GRIDCO) |
| 100 | GENUS | ER-1054-A | |
| 101 | GENUS | ER-1165-A | MOTIHARI(DMTCL) |
| 102 | GENUS | ER-1167-A | |
| 103 | GENUS | ER-1122-A | |
| 104 | GENUS | ER-1123-A | MPL |
| 105 | GENUS | ER-1124-A | |
| 106 | GENUS | ER-1129-A | |
| 107 | GENUS | ER-1226-A | MUZAFFARPUR(PG) |
| 108 | GENUS | ER-1299-A | |
| 109 | GENUS | ER-1292-A | NABINAGAR(BRBCL) |
| 110 | GENUS | ER-1294-A | |
| 111 | ELSTER | NR-4620-A | |
| 112 | ELSTER | NR-4621-A | |
| 113 | GENUS | ER-1099-A | |
| 114 | L&T | NP-8052-A | PANDIABILI(PG) |
| 115 | GENUS | ER-1175-A | |
| 116 | GENUS | ER-1176-A | PURNEA(PG) |
| 117 | GENUS | ER-1298-A | RAMCHANDARPUR(PG) |
| 118 | GENUS | ER-1020-A | RENGALI(PG) |
| 119 | GENLIS | FR-1028-A | |
| 120 | CENIIG | FR-1020-A | ROURKELA(PG) |
| 120 | CENILIC | ED 1010 A | |
| 121 | GEINUS | ER-1012-A | |
| 122 | GEINUS | ER-1093-A | |
| 123 | GENUS | EK-1100-A | |
| 124 | GENUS | ER-1019-A | |
| 125 | GENUS | ER-1118-A | |
| 126 | GENUS | ER-1022-A | |
| 127 | GENUS | ER-1021-A | 1 |

25 Existing Locations with 68 Meters

| 60 | GENUS | ER-1113-A | | 128 | GENUS | ER-1023-A | |
|----|-------|-----------|--------------------|-----|-------|-----------|----------------|
| 61 | GENUS | ER-1073-A | SAMANOARA(ORIDCO) | 129 | GENUS | ER-1117-A | SUNDERGARINE O |
| 62 | GENUS | ER-1223-A | SAMASTIPUR(BSPTCL) | 130 | GENUS | ER-1119-A | |
| 63 | GENUS | ER-1121-A | | 131 | GENUS | ER-1062-A | |
| 64 | GENUS | ER-1126-A | EIVISS(CESC) | 132 | GENUS | ER-1067-A | |
| 65 | GENUS | ER-1227-A | RETIAL/RSDTCL) | 133 | GENUS | ER-1061-A | |
| 66 | GENUS | ER-1173-A | DETIALI(D3FTCE) | 134 | GENUS | ER-1070-A | |
| 67 | GENUS | ER-1116-A | BHOGRAI(GRIDCO) | 135 | GENUS | ER-1065-A | |
| 68 | GENUS | ER-1114-A | JALESWAR(GRIDCO) | 136 | GENUS | ER-1064-A | |

Sheet1

Approximate cost for integrating 150 new meters with AMR (by taking 20% escalation from the AMR Phase-2 PO (LOA Ref # ER-II/KOL/CS/I-1352/P-1398 Dated 27.10.2016))

Supply Portion

| | | | | | | New Unit price | |
|--------|---|---------|---------------|---------|-----------------------|------------------|-------------|
| SL No. | Line Item | Unit | Qty (Old LOA) | New Qty | Unit Price in old LOA | (20% escalation) | Total Price |
| | Supply of all required hardware along with | | | | | | |
| 1 | Accessories | per SEM | 249 | 150 | 874 | 1048.8 | 157320 |
| 2 | Armored RS-485 Cable | mtr | 14000 | 8500 | 90 | 108 | 918000 |
| 3 | PVC pipes of ISI make min dia 50 mm or higher | mtr | 16148 | 3700 | 84 | 100.8 | 372960 |
| 4 | Data Concentrator Unit | no | 37 | 22 | 90000 | 108000 | 2376000 |
| 5 | MOXA Converter | no | 37 | 27 | 4091 | 4909.2 | 132548.4 |
| | | | | | | Total | 3956828.4 |

Service Portion

| | | Qty | | | New Unit price | |
|--------|--|-----------|---------|-----------------------|------------------|-------------|
| SL No. | Line Item | (Old LOA) | New Qty | Unit Price in old LOA | (20% escalation) | Total Price |
| | | | | | | |
| | Installation, Testing and commissioning | | | | | |
| | Including integration with ERLDC / customization | | | | | |
| | Cost for works of Implementation of Automatic | | | | | |
| | Meter Reading (AMR) for SEM in Eastern Region | | | | | |
| 1 | At Data Center | 249 | 150 | 5858 | 7029.6 | 1054440 |
| | | | | | | |
| | Installation, Testing and commissioning | | | | | |
| | Including integration with ERLDC / customization | | | | | |
| | Cost for works of Implementation of Automatic | | | | | |
| | Meter Reading (AMR) for SEM in Eastern Region | | | | | |
| 2 | At Sub Station | 249 | 150 | 7500 | 9000 | 1350000 |
| 3 | Laying of Armored RS-485 cable in PVC pipe | 14000 | 8500 | 22.9 | 27.48 | 233580 |
| | | | | | Total | 2638020 |

| Sheet1 |
|--------|
|--------|

AMC Portion

| | | Qty | | | New Unit price | |
|--------|---|-----------|---------|-----------------------|------------------|-------------|
| SL No. | Line Item | (Old LOA) | New Qty | Unit Price in old LOA | (20% escalation) | Total Price |
| | | | | | | |
| | | | | | | |
| | Comprohopsivo AMC for all bardware (software) | | | | | |
| | Equipment installed under this project for 1 st year | | | | | |
| 1 | After warranty (ner SEM) -KIOSK type Sub Station | 249 | 150 | 3306 | 3967.2 | 595080 |
| | Arter warranty (per sew) Klosk type sub station | 217 | 150 | 3300 | 5707.2 | 373000 |
| | | | | | | |
| | | | | | | |
| | Comprehensive AMC for all hardware /software/ | | | | | |
| | Equipment installed under this project for 2 nd year | | | | | |
| 2 | After warranty (per SEM) -KIOSK type Sub Station | 249 | 150 | 3637 | 4364.4 | 654660 |
| | | | | | | |
| | | | | | | |
| | Comprehensive AMC for all hardware /software/ | | | | | |
| | Equipment installed under this project for 2 rd year | | | | | |
| 3 | After warranty (ner SEM) -KIOSK type Sub Station | 249 | 150 | 4001 | 4801.2 | 720180 |
| 5 | | 217 | 100 | 1001 | 1001.2 | 720100 |
| | | | | | | |
| | | | | | | |
| | Comprehensive AMC for all hardware /software/ | | | | | |
| | Equipment installed under this project for 4 th year | | | | | |
| 4 | After warranty (per SEM) - KIOSK type Sub Station | 249 | 150 | 4401 | 5281.2 | 792180 |
| | | | | | Total | 2762100 |

| Total cost for Supply | 3956828 |
|------------------------|---------|
| Total cost for Service | 2638020 |
| Total cost for AMC | 2762100 |
| Total | 9356948 |