

# ରାଜ୍ୟ ବିଦ୍ୟୁତ୍ ଭାର ପ୍ରେରଣ କେନ୍ଦ୍ର

OFFICE OF THE CHIEF LOAD DESPATCHER, SLDC

ODISHA POWER TRANSMISSION CORPORATION LIMITED

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CIN – U40102OR2004SGC007553

No-SGM (PS)-PL-15/2019 /

1382<sup>(48)</sup>

Dated: 15.05.2019

From:

The Chief Load Despatcher  
SLDC, OPTCL, Bhubaneswar-17.

To:

As per distribution list

**Sub: Minutes of 132<sup>nd</sup> PSOC meeting held on 19.04.2019 at PTC, Chandaka, Bhubaneswar.**


Sir,

Please find enclosed herewith the minutes of 132<sup>nd</sup> Power System Operational Co-ordination meeting held on 19.04.2019 at PTC, Chandaka, Bhubaneswar.

This is for your information & necessary action.

Encl: As above

Yours faithfully;

  
Chief Load Despatcher,  
SLDC, OPTCL

Copy along with enclosures forwarded to the Executive Assistant to CMD, Gridco / OPTCL for kind information of CMD.

### **Distribution list**

1. The Director (Commercial), Gridco, Bhubaneswar
2. The Director (Operation), OPTCL, Bhubaneswar
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4. The Director (Operation), OHPC, Bhubaneswar
5. The CGM (O&M), OPTCL, Bhubaneswar.
6. The CGM (Const.), OPTCL, Bhubaneswar.
7. The Sr. G. M. (RT&C), OPTCL, Bhubaneswar.
8. The CGM (PP), GRIDCO, Bhubaneswar.
9. The CGM (IT), OPTCL, Bhubaneswar.
10. The CGM (Telecom), OPTCL, Bhubaneswar.
11. The Sr. G. M. (Const)-I, OPTCL, Bhubaneswar.
12. The C.G.M. (Const), OPTCL, Sambalpur.
13. The Sr. G.M (CPC), OPTCL, Bhubaneswar.
14. The Sr. G.M (CP), OPTCL, Bhubaneswar.
15. The Sr. G.M. (O&M), Zone-I, Narendrapur
16. The Sr. G.M. (O&M), Zone-II, Meramundali.
17. The CEO, CESU, Bhubaneswar.
18. The A.O., WESCO, Burla
19. The A.O., NESCO, Balasore
20. The A.O., SOUTHCO, Berhampur.
21. The Member Secretary (GCC), OPTCL.
22. The ED, Power Grid Corporation of India, Bhubaneswar.
23. The Sr. G.M. (El.), BHEP, Balimela
24. The A.G.M. (El.), CHEP, Chiplima
25. The Sr. G.M. (El.), UIHEP, Mukhiguda
26. The Sr. G.M. (El.), RHEP, Rengali
27. The D.G.M. (El.), HHEP, Burla
28. The D.G.M. (El.), UKHEP, Bariniput, Koraput
29. The S.E. (O&M), Machhakund
30. The DGM (Elect.), IbTPS, OPGC, Banharpali.
31. The Vice President (O), IMFA, Choudwar.
32. The D.G.M. (O&M), NTPC (TTPS), Talcher.
33. The AGM (Elect.), JINDAL Stainless Ltd., Duburi
34. The G.M, HINDALCO, Hirakud.
35. The G.M.CPP, NALCO, Angul.
36. The Director, M/s. Jindal Steel & Power Ltd., Angul
37. The AVP-Vedanta Ltd (IPP), Jharsuguda
38. The G.M, Vedanta Ltd (CGP), Jharsuguda.
39. The DGM (Power Distribution), RSP, Rourkela.
40. Joint President, Aditya Aluminium Ltd., Lapanga, Sambalpur
41. The G.M. (Elect.), Bhusan Steel Limited. Meramundali
42. The G.M. (Elect.), Bhusan Power & Steel Ltd, Budhipadar.
43. The G.M. (Elect.), IFFCO Limited.
44. Director & COO, GMR Kamalanga Energy Limited, Satyanagar, Bhubaneswar.
45. The CEO, Bhubaneswar Power Pvt. Ltd, IRC Village, Nayapalli, Bhubaneswar.
46. M/S Tata Power & Steel Ltd., Kalinganagar
47. Power Grid Corporation of India, Bhubaneswar.

**Minutes of 132<sup>nd</sup> PSOC meeting held on 19.04.2019 at PTC, Chandaka, BBSR**

List of participants is at Annexure.

Chief Load Dispatcher, SLDC, OPTCL welcomed all the participants to the 132<sup>nd</sup> Power System Operational Coordination meeting and highlighted the system performance during the month of March'2019 and overall power scenario of the State. He also emphasized on the drawal by all the Discoms during the month.

Dy. Manager, SLDC took the agenda items for discussion.

**The review proceeded as follows:**

**1: Confirmation of minutes of 131<sup>st</sup> PSOC meeting held on 29.03.2019**

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2019/998<sup>(48)</sup> dated 05.04.2019 to all the members and also uploaded in the SLDC website. No comment has been received from any of the members.

**Deliberation in the meeting:**

Since no comments have been received from the members, the minutes of 131<sup>st</sup> PSOC meeting was confirmed.

**PART B : SYSTEM PERFORMANCE**

**B1: Review of Grid Performance for the month of March'2019.**

**(A) Frequency**

It was noticed that, during the month of March'19, **70.28** % of times the frequency remained in the IEGC band i.e. 49.90Hz - 50.05Hz in comparison to **67.23** % during the month of February'19. The maximum and minimum System frequency during the month was **50.21 Hz & 49.71 Hz** respectively.

**Deliberations in the meeting**

SLDC stated that the percentage of times of frequency in the IEGC band has been increased. The "above 50.05 Hz" range has been decreased from 26.87 % to 21.39 % in comparison with the previous month. .

**(B) Grid demand**

Grid demand for the month of March'19 was reviewed. The average consumption during the month was **3526 MW**. The maximum System demand of **4643 MW** occurred on **27.03.19** at 20:00 Hrs and minimum demand of **2634 MW** occurred on **18.03.19** at 04:00 Hrs.

**Deliberation in the meeting**

It is observed that the average demand during the month of March' 19 has increased by 382 MW and maximum demand by 420 MW in comparison to February'19. The demand has increased substantially during the month due to change in weather condition and power import by Vedanta Ltd. through short term open access.

**(C) Voltage Profile of important Sub Stations in OPTCL System during the month of Mar'19.**

The Voltage profile at different 220 kV buses in OPTCL system during the month of **March'19** was reviewed.

The maximum Voltage of **234.11 kV** occurred at **Jayanagar** 220 kV bus, while **Bhadrak** 220 kV bus has experienced the minimum Voltage of **204.03 kV**. The 220 kV Voltage profile of Bhadrak, Mendhasal, Jayanagar and Narendrapur and 400 kV Voltage profile of Meramundali, Mendhasal and New Duburi bus during the month of March' 2019 was reviewed.

**Deliberations in the meeting**

It is noticed that only 2-3 days the Bus Voltage of Bhadrak has gone low.

**(D) Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of Mar'19.**

Auto loading of all 220 kV S/Ss during the month of March'19 was reviewed.

**(E) DISCOM Drawal during the month of March'19**

The schedule and actual energy drawal by Discoms for the month of **March'19** was reviewed.

**Deliberation in the meeting:**

It is noticed that All the DISCOMs have over drawn during the month. CESU has over drawn 72.296 MU followed by SOUTHCO 38.936 MU, while NESCO & WESCO have over drawn 31.199 MU & 8.752 MU respectively. The deviation of SOUTHCO, CESU, NESCO & WESCO are 12.994, 10.306, 6.871 & 1.366 % respectively from the scheduled energy. The net over drawal of Discoms during the month was **151.183 MU**.

NESCO stated that their drawl is almost as per the drawl schedule submitted by them during the month. The difference is due to curtailment of their drawl schedule by SLDC. All other DISCOMs have also expressed the same view for their over drawl.

All DISCOMs were requested to predict their drawal in a realistic manner. In the 130<sup>th</sup> PSOC meeting SLDC suggested that the DISCOMs may furnish their week ahead drawal schedule for generation planning, which is yet to be received.

[Action: DISCOMs]

**(F) Energy Generation / import during the month of March'19**

Energy generation and exchange during the month of March'19 was reviewed. The total quantum of energy drawn from all the generation sources including Central Sector Share and CGP/IPP support during the month was **2624.247 MU**.

**Deliberations in the meeting**

The energy demand has increased by in comparison with previous month.

**(G) Drawal of Machhakund Power during the month of March'19**

The drawal of Machhakund power during the month of March'19 was **26.716 MU**, against AP drawal of **25.213 MU**.

**Deliberations in the meeting**

It was noticed that the State's drawl from Machhakund during the FY 2018-19 has shortfall by 18.4 MU from AP drawl. Southco may explore for adding of Koraput, Dasmantpur & Kakariguma feeders to Podagada S/S. OPTCL may take initiative for adding of more feeders at Podagada S/S. Representative of SOUTHCO was not present in the meeting for deliberation.

[Action: Southco]

## (H) Under Frequency relay operation in OPTCL System during the month of March'19.

There is no UF Relay operation during the month of February'19 as the frequency had never gone beyond 48.50 Hz.

## (I) Status of Open Access applications during the month of March'2019

Status of Open Access Applications received and disposed by SLDC during the month was reviewed.

### Deliberations in the meeting

Total 107 numbers of Short Term / Medium term and Collective transaction applications have been processed by SLDC for according Approval / Consent / NoC during the month. SLDC has processed 1731 Nos of Open Access applications during the FY 2018-19. Out of which 30 Nos have rejected due to various grounds.

## **PART C – Issues likely to be discussed in the 156<sup>th</sup> OCC meeting of ERPC held on 25.04.2019**

### C.1: 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.

The latest status as updated by OPTCL / OHPC is as given below:

Sl No	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	PSDF grant Approved (in Rs.)	Amount Drawn till date (in Rs.)	Status as updated in 129 <sup>th</sup> meeting
4	OPTCL	Renovation & Up-gradation of protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies.	11.05.15	31.03.19	162.5 Cr. Total expenditure may not exceed Rs. 68 Crs.	38.09 Cr. Received Rs. 8.00 Cr on 28.03.19	<i>90% equipment installed and commissioned. Order placed for Stn Tfr and tender for measuring instruments under evaluation.</i>
7		Implementation of OPGW based reliable communication at 132kV and above substations	15.11.2017		51.22 Cr	2.56 Cr received as 10 % DPR. Claimed for 20 %.	Order placed.
13	OHPC	Renovation & up-gradation of protection & control system of 4 nos. OHPC sub-stations		U.Kolab-March 19 Balimela-Feb 2019 U.Indravati-Jan 19 Burla-Nov18 Chiplima Dec 2018	22.35 Cr.	2.235 Cr	<i>Placed work order for Balimela. PO for other units amounting Rs. 2 Crs placed. Tendering for Rs 7 Cr under finalization.</i>
Projects under process of approval:							
	OPTCL	Installation of 125 MVAR Bus Reactor along with construction of associated bay each at 400kV Grid S/S of Mendhasal, Meramundali & New Duburi for VAR control & stabilisation of system voltage	27-07-18		31.94 Cr Estd. Cost. Approved amount 30.26 Cr. Grant amount 27.23 Cr.	Rs.2.72 Cr received as 10% of DPR. Retendering under process.	Agreement signed and sent to NLDC for signature. Tender is under evaluation. Bank mandate submitted.
Projects recently submitted:							
	OPTCL	Implementation of Automatic Demand Management System (ADMS) in SLDC, Odisha	22-12-17	Date of submission	3.26 Cr Estd cost. 2.93 Cr recomme		Approved by Appraisal committee. Forwarded to

					nded by Appraisal committee.		CERC for concurrence.
	OPTCL	Protection up gradation and installation of SAS for seven numbers of 220/132/33kV Grid substations (Balasore, Bidanasi, Budhipadar, Katapalli, Narendrapur, New-Bolangir & Paradeep).	12.03.2018 Date of submission		41.1 Cr Estt cost	10% of DPR to be asked.	Project approved. Tender to be floated.

**CGM (O&M) / OHPC/ SLDC may update the status**

## **C.2: Mapping of Feeders of Automatic Under Frequency Load Shedding (AUFLS) Scheme**

In 8th NPC held on 30th November 2018, it was decided that each RPC would submit the details / progress of feeder mapping to NPC secretariat on a regular basis (quarterly).

In 154th OCC, DVC informed that mapping of the UFR feeders had already been implemented in DVC system.

In 40th TCC, Bihar and Jharkhand have confirmed that mapping of the UFR feeders has been implemented.

West Bengal informed that out of 18 S/s only 6 S/s data are available at SLDC. For the remaining 12 S/s the RTUs are old and needed replacement. WBSETCL added that they have already placed a proposal for PSDF funding.

OPTCL informed that out of 58 feeders only 14 feeders data are available at SLDC. For mapping of the remaining feeders, the RTUs needed to be replaced as they were old. OPTCL added that replacement of old RTUs is in advance stage and it would be implemented within a year.

In the 131<sup>st</sup> PSOC meeting DGM (Telecom) stated that tender for procurement of RTU is under pre-bid stage. He also added that data for more number of feeders can be made available to SLDC from the existing RTUs.

### **Deliberations in the meeting**

DGM (Telecom) stated that database for 58 No feeder CB status is under preparation.

**[Action: C.G.M (Telecom)]**

## **C.3: Coal requirement for thermal power plants –MoP**

MoP vide letter dated 7th February 2019 informed that, it has been decided that in view of expected increased power demand in the next few months up to monsoons, all power plants be advised to be watchful, and do maintain plant availability and adequate coal stocks as per norms, in this period.

All the thermal plants are advised to take effective steps for immediate implementation of the decision. The action taken report may also be forwarded to the Ministry at the earliest.

In 154th OCC, all the thermal generators were advised to assess the requirement of coal in the coming few months and take the necessary action to build up adequate stock to ensure uninterrupted supply of power.

In 40th TCC, all the thermal generators were advised to inform ERPC Secretariat any hurdle being faced by them in building up the coal stock. If required, a separate meeting would be convened by ERPC Secretariat with the thermal generators, coal companies and the Railways.

In the 131<sup>st</sup> PSOC meeting it was suggested in the meeting that GMR/ OPGC and Vedanta Ltd may furnish the report to ERPC directly.

### **Deliberations in the meeting**

OPGC stated that they are uploading the coal requirement in CEA site daily. GMR was not present in the meeting for deliberation.

**[Action: GMR / Vedanta]**

#### **C.4: Removal of Vedanta Towers (5 nos) for direct connectivity on permanent basis of 400kV Sundargarh-Raigarh ckt#4 and 400kV Sundargarh-Raigarh ckt#2--Powergrid**

Initially 02 nos LILO was made in 400kV Rourkela-Raigarh ckt-2 and Ckt-4 to evacuate power generation of Sterlite Energy Ltd (Now Vedanta Ltd),Jharsuguda. However, as per directives from ERLDC/ERPC LILO of 400kV Rourkela-Raigarh ckt-2(Now Sundargarh-Raigarh ckt-3) was opened in 2014 and LILO of 400kV Rourkela-Raigarh ckt-4(Now Sundargarh-Raigarh ckt-4) was opened in October 2017.

As a temporary measure to facilitate immediate disconnection of LILO and making the line direct PG clamps were used in Vedanta Towers. In this process 05nos of Vedanta Towers are there in the 400kv Sundargarh-Raigarh ckt-2 and 4. 03nos between Loc 298-299of 400kV Sundargarh-Raigarh ckt-4 and 02nos of Towers between Loc 834-833 of 400kV Sundargarh-Raigarh Ckt3.The sketch showing the Vedanta Towers in both the circuits is enclosed for ready reference.

The matter for removal of Towers and making direct connectivity with Raigarh on permanent basis has been discussed several times with M/s Vedanta. But till date no action has been taken by M/s Vedanta for making the line direct after removal of Towers. Maintenance of the said Towers and corridor are not being done. Any outage of these lines due to issues in these towers and span shall not be attributed to POWERGRID.M/s Vedanta may be asked to restored the line as it was before making the Line LILO.

In the 131<sup>st</sup> PSOC meeting DGM, Powergrid, Bhubaneswar and Vedanta Ltd deliberated the present status in the meeting. It was decided that POWERGRID and Vedanta Ltd shall discuss the issue mutually and intimate decision to SLDC.

#### **Deliberations in the meeting**

Vedanta Ltd. stated that the issue was discussed with POWERGRID. Vedanta will remove 4 Nos of towers by August'2019 and one tower will be utilized by POWERGRID.

**[Action: POWERGRID, Bhubaneswar/ Vedanta Ltd.]**

#### **C.5: Implementation of Automatic Generation Control (AGC) in India (at Inter- State level)**

CERC in its order dated 13.10.2015 in Petition No. 11/SM/2015 reiterated the need for mandating Primary Reserves as well as enabling Secondary Reserves, through Automatic Generation Control (AGC) as follows:

(a) All generating stations that are regional entities must plan to operationalise AGC along with reliable telemetry and communication by 1st April, 2017. This would entail a one-time expense for the generators to install requisite software and firmware, which could be compensated for. Communication infrastructure must be planned by the CTU and developed in parallel, in a cost effective manner.

(b) On the other hand, National/Regional/State Load Dispatch Centres (NLDC/RLDCs/SLDCs) would need technical upgrades as well as operational procedures to be able to send automated signals to these generators. NLDC /RLDCs and SLDCs should plan to be ready with requisite software and procedures by the same date. (c) The Central Commission advises the State Commissions to issue orders for intra-state generators in line with this timeline as AGC is essential for reliable operation of India's large inter-connected grid.”

The issue was discussed in 8th NPC Meeting held on 30th November 2018, it was decided that each RPC would submit the status of implementation of AGC to NPC.

In 154th OCC, it was informed that ISGS generators at Barh and Teesta V are in the process of implementation of the AGC as a pilot project.

It was informed by Member Secretary, ERPC that, during the deliberation in the 8th NPC meeting on 30.11.2019, it emerged that states in the other regions had already taken initiative for implementation of AGC. ERPC was advised to sensitize this issue in the ERPC forum.

OCC advised Odisha, West Bengal and DVC to identify one generator in their system for implementation of AGC as a pilot project and place the detailed implementation plan in coming TCC Meeting.

In 40th TCC, NTPC informed that AGC at Barh STPS will be implemented by May, 2019.

SLDC Odisha informed that they have written a letter in this regard to OPGC also pointed that regulatory changes need to be framed by SERC before implementation of AGC in the state.

OPGC suggested for implementing the AGC in new units to be commissioned shortly.

DVC confirmed that unit#8 of Mejia TPS has been identified for AGC implementation as a pilot project.

WBPDCCL informed that they will submit the details in OCC meeting.

The followings were decided in the TCC Meeting:

1. Status of implementation of AGC shall be regularly monitored in OCC meetings.
2. An workshop shall be organised in ERPC wherein NLDC and NTPC will be invited to interact with the ER constituents regarding the experience they have gained in implementing the AGC in other regions.

In the 131<sup>st</sup> PSOC meeting OPGC stated that after synchronization of their new unit, they will intimate to ERPC for implementation of AGC. OHPC stated that after attending the workshop they will examine to identify one of their units.

#### **Deliberations in the meeting**

OHPC stated that the workshop is yet to be held. OPGC stated that they will provide the data after CoD of their units. Telecom stated that the software is available in the EMS package.

[Action: OPGC/OHPC ]

#### **C.6: Information regarding details of existing transmission system (220 kV and above AC & DC voltage level) in Eastern Region as on 31.12.2018**

CEA vide letter dated 29/01/2019 intimated that MoP, GoI has desired information regarding details of state wise growth of transmission system (both interstate and intra state system) over the years to create database of existing transmission system.

Accordingly, it is requested that the information in respect of existing transmission system (both interstate and intra state system) as well as State Power Map and single line Diagram of transmission network including Powergrid (ISTS) and other Transmission Service Provider (TSPs) (as on 31.12.2018) may please be made available in the specified format attached at Annexure –B14. I & II to ERPC for onward transmission to CEA / MoP by 28.02.2019.

In the 131<sup>st</sup> PSOC meeting O&M agreed to furnish the information to ERPC.

#### **Deliberations in the meeting**

O&M stated that field units have asked to furnish the data. The required information will be submitted by end of April'2019

[Action: CGM (O&M)]

#### **C.7: Review of the PSS Tuning of Generators in Eastern Region**

PSS tuning meeting was conducted by ERPC on 31st January 2019 where generators from Eastern Region have participated. The MoM of the meeting has been released by ERPC and is available on the website. During the PSS meeting following decision have been taken:

1. Generators who had already done the PSS tuning shall submit the details of the Excitation System, PSS tuning and its report. The generators shall submit the Generator terminal voltage,

Field voltage, Real power, Reactive Power, Generator Speed, and PSS output in excel/.csv format for better analysis of the result.

2. Generators for which PSS tuning was not carried out shall take up the PSS Tuning with OEM immediately.

3. Generators for which PSS was not in service shall take up the issue with OEM immediately to bring the PSS into service. 4. For any future tuning, it was recommended to all generators to collect the response along with data in .csv/excel format. 5. All the generators where the PSS tuning was done and PSS not in service shall submit their action plan for PSS Tuning in line with IEGC and CEA standards before the next OCC meeting to ERPC/ERLDC.

In view of the same five categories have been made for comprehensive checkup and plan for PSS tuning for Eastern region Generating plants, which are given at Annexure-B14.

In the 131<sup>st</sup> PSOC meeting OPGC stated that they have already furnished the data to ERPC. GMR and Vedanta were requested to furnish the data soon to ERPC.

#### **Deliberations in the meeting**

Vedanta stated that they have already furnished the data. GMR was not present to deliberate.

[Action: GMR]

### **C.8: Bypassing arrangement of LILO of 400kV Lines at Angul**

LILO of Meramundali-Bolangir/Jeypore 400 kV S/C line and LILO of one Ckt of TalcherMeramundali 400 kV D/C line has been done at Angul 765/400kV Sub-station. The bypass arrangement for these circuits were under implementation at Angul by Powergrid. In 154th OCC, Powergrid informed that bypass arrangement would be completed by March 2019.

In the 131<sup>st</sup> PSOC meeting DGM, Powergrid, Bhubaneswar stated that the bypass work will be completed by 1<sup>st</sup> week of April'2019

#### **Deliberations in the meeting**

O&M stated that POWERGRID is not taking initiative for the work. It was decided that O&M may write to POWERGRID in this regard and intimate ERPC.

[Action: O&M]

### **C.9: Updated Black Start and Restoration procedure of State—ERLDC As per clause IEGC 5.8(b)**

“Detailed plans and procedures for restoration after partial/total blackout of each User’s/STU/CTU system within a Region, will be finalized by the concerned User’s/STU/CTU in coordination with the RLDC. The procedure will be reviewed, confirmed and/or revised once every subsequent year.”

In 154th OCC all the SLDCs to were advised to submit the updated restoration procedure of their respective state.

However SLDCs are yet to submit the Black Start and restoration procedure for respective states.

In the 131<sup>st</sup> PSOC meeting SLDCs stated that the Black Start and restoration procedure in respect of Odisha is under process and will be submitted after completion.

#### **Deliberations in the meeting**

SLDC stated that the draft Black start procedure has been prepared and will be forwarded to O&M / OHPC for comments. After finalization the procedure will be submitted to ERPC/ ERLDC

[Action: SLDC/OHPC]

### **C.10: Periodical Audit and Vulnerability Assessment & Penetration Testing (VPAT) of ICT Infrastructure--CEA**

Central Electricity Authority vide letter dated 31st January 2019 informed that a vulnerability has been reported in website of an organization under Power Sector. Any vulnerability present in ICT infrastructure, website, web application etc. may invite attackers to carry out malicious activities. In this case, attackers could exploit the targeted organization.

To avoid the possibility of Cyber Security related issue by plugging and fixing the vulnerability, it is essential to conduct regular & meaningful audit and Vulnerability Assessment and Penetration testing (VPAT) of all ICT infrastructure in addition to adopting the best practices and guidelines by all Power Sector Organizations.

In this regard, all Power Sector organizations are requested to ensure periodical audit and Vulnerability Assessment and Penetration testing (VPAT) of all ICT infrastructures by competent auditors and testers. Further, Sectoral CERTs are requested to take immediate action and coordinate with organizations under their purview for the same.

In 154th OCC, all the constituents were advised to conduct the Audit, Vulnerability Assessment and Penetration Testing (VPAT) of all ICT infrastructure, website, web application etc. and submit a report to CISO, MoP with a copy to ERPC Secretariat.

In the 131<sup>st</sup> PSOC meeting IT stated that they have completed the audit and the status report submitted to SLDC.

**Deliberations in the meeting**

SLDC stated that the report has been sent to ERPC

[Action: SLDC / IT]

**C.11: Details of Capacitor bank installed in Distribution/Sub transmission network --ERLDC**

Details of capacitor installed in Eastern Region as a whole was last collected in year 2011. The last updated list is given in Annexure-B18. In the meantime, many utilities might have installed additional capacitor bank for better voltage regulation some has also applied for fund form PSDF for installation of capacitor banks.

Utilities are requested to provide the updated capacitor bank list for record purpose.

In the 131<sup>st</sup> PSOC meeting it was decided that O&M shall furnish the list of capacitor banks installed in the grid S/Ss at 33 kV bus to ERPC.

**Deliberations in the meeting**

O&M assured to forward the data to ERPC

[Action: CGM (O&M)]

**C.12: Collection of modeling data from Renewable as well as conventional energy generators:  
ERLDC**

As a National Grid operator, POSOCO is continuously working for ensuring reliability and security of the Grid. With penetration of more and more renewable energy source the task is becoming complicated day by day. An accurate dynamic modeling of the National Grid needs modeling of conventional as well as renewable / distributed generation sources. World Bank has engaged Digsilent as consultant for assisting POSOCO for building dynamic model of the Grid. A guideline for dynamic data collection has been developed in consultation with Digsilent Pacific team. All the utilities are requested to collect data from the grid scale renewable power plants as well as from conventional power plants under their jurisdiction and submit the same to ERLDC/ERPC as early as possible.

In the 129<sup>th</sup> PSOC meeting CGM (PP), GRIDCO stated that M/S MGM Solar has been selected for the pilot project

In the 130<sup>th</sup> PSOC meeting GRIDCO stated that CESU MRT is not co-operating for accessing the energy meter by M/s Chemtrol. CESU representative assured to take up the matter with their MRT wing.

**Deliberations in the meeting**

All generators as well as RE sources are requested to furnish data to SLDC for onward transmission to ERPC.

[Action: All generators including RE Sources]

### C.13: Implementation of Automatic Demand Management Scheme

The latest status along with proposed logic as follows:

Sl. No	State /Utility	Logic for ADMS operation	Implementation status/target	Proposed logic (if different from under implementation logic)
1	Odisha	1. System Frequency < 49.9 Hz 2. Odisha over-drawl > 150 MW 3. 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 operate when DISCOMs are in schedule but GRIDCO is over drawing due to less generation at State embedded generators.

In the 116<sup>th</sup> PSOC meeting, CGM (O&M) stated that since considerable time has already been lapsed SLDC may prepare the EoI without waiting for CPC.

In the 123<sup>rd</sup> PSOC meeting SLDC stated that since the estimated cost has increased due to inclusive of SCADA integration, the revised estimate is placed in the BoD for approval

In the 124<sup>th</sup> PSOC meeting SLDC stated that the revised estimate has been approved in the BoD.

In the 129<sup>th</sup> PSOC meeting SLDC stated that CERC approval is awaited for tendering.

CERC has approved the revised estimate. SLDC shall process for tendering.

#### Deliberations in the meeting

It was decided that a committee will be constituted with representatives from SLDC, Telecom, IT and DISCOMs to finalize the implementation of the scheme.

[Action: SLDC/Telecom/IT/DISCOMs]

### C.14: 220 kV Inter-connecting lines of OPTCL with 400/220 kV Bolangir(PG), Keonjhar & Pandiabil S/s

PGCIL has already commissioned the 2 X 315MVA 400/220kV Bolangir S/s by LILoing of 400 kV 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 131<sup>st</sup> PSOC meeting the status has been updated as follows:

Sl.	Name of the transmission line	Completion schedule
<b>1.</b>	<b>2 X 315MVA 400/220kV Bolangir S/s</b>	
a.	LILo of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir (PG) S/S.	Construction of 220 kV Sadeipali- Kesinga line has started. Expected by March'19. 220 kV Sadeipali-Bolangir (PG) portion of the line is expected by July'19.
<b>2.</b>	<b>400/220 kV Keonjhar S/S.</b>	
a.	Keonjhar (PG)-Keonjhar (220/33 kV) 220 kV D/C line	220 kV S.C line and Keonjhar S/S (220/33 kV) , 2x20 MVA charged on 31.12.2018. 2 <sup>nd</sup> ckt; April''2019
b.	Keonjhar (PG)-Turumunga (220/132 kV) 220 kV D/C Line.	By 2019. Order placed.
<b>3.</b>	<b>400/220 kV Pandiabil Grid S/s</b>	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C line	July'2019

In the 130<sup>th</sup> PSOC meeting Telecom stated that OPGW and telecom equipment for Keonjhar (PG)-Keonjhar line is not available. CGM (Cont) was requested to process the file and write a letter to Telecom. NESCO stated that two nos of feeders will be completed by end of March'2019 for drawing load from Keonjhar S/S.

In the 131<sup>st</sup> PSOC meeting D.G.M (Telecom) stated that CARD has already been received. All works will be completed by April'2019. NESCO was requested to expedite the takeoff arrangement.

### **Deliberations in the meeting**

NESCO stated that they have already taken action for downstream takeoff arrangements from Keonjhar S/S. Telecom stated that for charging of Keonjhar-Keonjhar (PG) 2<sup>nd</sup> ckt, CARD has already been received and ABB engineers has reached the spot. Expected by April' 2019.

[Action : CGM (Cont) / CGM (Telecom)]

### **C.15: 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.

X X X

With regard to the State network, this was deliberated in the last meetings that data communication from Narsingpur S/s is not in place. Also date communication from NALCO is not stable. Telecom stated that provision for laying optical fibre in Bhanjanagar-Meramundali line has been kept in PSDF scheme. However, if wave trap foundation will be done at Narsingpur S/S, the data communication can be established.

In the 129<sup>th</sup> PSOC meeting it was decided that NALCO shall write to OPTCL for preparation of estimate for laying of Optical fibre. Construction wing of OPTCL agreed for construction of wave trap foundation at Narsingpur S/S.

In the 130<sup>th</sup> PSOC meeting Sr. G.M (Telecom) stated that NALCO has submitted a request letter in this regard. Wave trap foundation at Narsingpur is yet to be done.

In the 131<sup>st</sup> PSOC meeting CGM (Telecom) stated that work order has already been placed for laying of Optical fibre in Meramundali-Bhanjanagar line. As such wave trap is not required. Telecom may take necessary action for preparation of estimate for laying of Optical fiber between NALCO and Meramundali.

### **Deliberations in the meeting**

CGM (Telecom) stated that survey work for Meramundali-Bhanjanagar line is under process.

OPGW will be reached at site after completion of survey and preparation of drum schedule. DGM (Telecom) stated that the vender list and rate will be provided to NALCO for placement of order by them.

[Action: Telecom / NALCO]

### **C.16: Mock Black start exercises in Eastern Region – ERLDC**

Sl.	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	Upper Kolab	Last week of May-2018		Last week of January 2019	
3	Rengali	2 <sup>nd</sup> week of June 2018		Last week of November 2018	
4	U.Indravati	3 <sup>rd</sup> week of June 2018		2 <sup>nd</sup> week of February 2019	
6	Balimela	3 <sup>rd</sup> week of October 2018		1 <sup>st</sup> week of March 2019	
9	Burla	Last week of June 2018		Last week of February 2019	

The tentative schedule for mock black start exercise for the FY-2019-20 is yet to be received.

### **Deliberations in the meeting**

The schedule for mock black start is expected to be decided in the OCC meeting.

[Action: SLDC / OHPC]

**C.17: Submission of Thermal Loading of Transmission line and associated terminal equipment by ISTS licensee**

In line with the MoM of 4th NRCE Meeting dt.03-11-14 and “Operational Guidelines for determination of TTC, ATC and TRM for the Short-Term Horizon (0-3 Months)” published by NRCE dt.20-02-15, thermal limit for transmission line has to be used for calculation of ATC/TTC. However, the thermal loading of transmission line depend on the Maximum Conductor Temperature, End equipment thermal rating. This has to be submitted by the Owner of the equipment. Further, the equipment owner also has to confirm that relay setting has been aligned so that the line can be operated up to its thermal limit. In the absence of complete details, ERLDC is utilising the data from the CEA Planning Criteria for thermal rating.

OCC advised all the other ISTS licensees and STUs to submit the relevant data to ERLDC and ERPC.

In the 129<sup>th</sup> PSOC meeting Sr. G.M (CP) stated that thermal loading data has been submitted by them. O&M shall submit the terminal equipment data

In the 131<sup>st</sup> PSOC meeting O&M was requested to expedite for furnishing the data.

**Deliberations in the meeting**

O&M will submit the data y 15<sup>th</sup> May 2019

[Action: C.G.M (O&M)]

**C.18: 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 WBPDCCL • DGPC units

In the 129<sup>th</sup> PSOC meeting O&M stated that 2<sup>nd</sup> stage internal audit has been done. Report is yet to be received. Process has been initiated for deposit of application money for external audit. On compliance of the observations Certificate may be issued.

In the 130<sup>th</sup> PSOC meeting O&M stated that the external audit will be conducted on 7<sup>th</sup> & 8<sup>th</sup> March’2019.

In the 131<sup>st</sup> PSOC meeting O&M stated that Audit has been completed but the report is yet to be received.

**Deliberations in the meeting**

O&M stated that external audit stage-I completed. On completion Stage-II external audit certificate may be received.

[Action: CGM (O&M)]

**PART-D – Operational Issues**

**D.1: Non-compliance of drawal schedule by DISCOMs**

Non-compliance of drawal schedule messages issued to Discoms during the month of **March’19**:

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)	Deviation (%)
1	CESU	0	72.296	10.306
2	WESCO	0	8.752	1.366
3	NESCO	0	31.199	6.871
4	SOUTHCO	0	38.936	12.994
	<b>Total</b>	<b>0</b>	<b>151.183</b>	

It is noticed that all the DISCOMs were over drawn during the month **SOUTHCO** has deviated **12.994%** followed by CESU **10.306%** from the scheduled energy while **NESCO and WESCO**

have deviated **6.871 %** & **1.366 %** respectively. DISCOMs may forecast their drawal in realistic approach to minimise deviation.

### **Deliberations in the meeting**

SLDC suggested for furnishing realistic drawal schedule

**[Action: DISCOMs]**

### **D.2: Communication issues**

The status of data communication from CGPs as deliberated in the 124<sup>th</sup> PSOC meeting is as follows.

<b>Sl.</b>	<b>Name of CGP</b>	<b>Present status</b>
1	M/s NINL, Duburi	M/s NINL has requested for Scheme, BOQ for PLCC/SCADA, which has been forwarded by OPTCL. No action has been taken by NINL so far.
2	IRE, Chatrapur	Data communication system yet to be established by the Plant

In the 117<sup>th</sup> PSOC meeting, Members opined that GCC should file a case soon against NINL & IRE before the OERC.

In the 119<sup>th</sup> PSOC meeting it was decided that GCC shall file a case against the defaulting CGP/ Consumers before the OERC.

In the 123<sup>rd</sup> PSOC meeting it was deliberated that RT&C have sought some information from Telecom wing which will be intimated. NALCO stated that due to problem in their internal communication system, data communication to SLDC is being interrupted.

In the 124<sup>th</sup> PSOC meeting Telecom stated that communication system for Paradeep area industries will be completed by September'2018. Telecom was advised to give a reply to the information sought by RT&C.

In the 125<sup>th</sup> PSOC meeting Telecom stated that the information sought by RT&C will be forwarded soon.

In the 126<sup>th</sup> PSOC meeting it was decided that SLDC shall convene a meeting with Telecom, GCC & RT&C and discuss the issue for filing case before the OERC.

A meeting was convened between SLDC, Telecom, GCC, RT&C, NINL & IRE Ltd on dt.15.01.2019 at SLDC conference hall to discuss the communication issue. Representative of IRE, SLDC, GCC and Telecom were attended the meeting. IRE deliberated that presently CB, CT & CVT are not installed at their end. Tendering for procurement of CB, CT & CVT have already been done, which will be expected by end of April'2019. Due to space constraint at IRE Switch yard, installation of the equipment may not be possible, unless the Switchyard is modified. For modification they may need the help of OPTCL. It was suggested by SLDC that IRE may approach Sr. G.M (O&M), Zone-1, OPTCL in this regard. Simultaneously, they also to write Sr. G.M (Telecom), OPTCL for preparing estimate for extending data communication from their end.

NINL was not present in the meeting.

In the 129<sup>th</sup> PSOC meeting it was decided that DGM (O&M), Berhampur and DGM (Cons.), Berhampur shall visit IRE S/W yard and submit a status report to Sr. G.M (O&M), Berhampur. RT&C may file a case before the OERC for non-compliance of extending data communication facility by M/s NINL.

In the 130<sup>th</sup> PSOC meeting it was decided that RT&C shall file a case before the OERC against the defaulting CGP / Industries and Telecom will provide the required information to them. RT&C vide their letter No. 104(4) dated 01.03.2019 asked Telecom wing to prepare the draft Petition along with the required information to them.

In the 131<sup>st</sup> PSOC meeting it was decided that T&C and Telecom shall discuss and prepare the Petition to file before the OERC.

**Deliberations in the meeting**

RT&C stated that the draft Petition has been prepared.

[Action: RT&C]

**D.3: Data communication from newly commissioned RE sources connected at 132 kV- SLDC**

There are as many 8 Nos. of Solar projects with installed capacity of 272.5 MW have connected with OPTCL network through 132 kV lines. The real time data of these plants are yet to be received at SLDC control room. Since the generation quantum is quite substantial (to the tune of 0.6 MU during a day), this has an impact on real time generation monitoring.

**Deliberations in the meeting**

It was decided that SLDC shall convene a meeting with the defaulting Solar units and Telecom to discuss the issue.

[Action: SLDC/Telecom]

**D.4: Implementation of Automatic Meter Reading for OPTCL-Discom interface points.**

In the 116<sup>th</sup> PSOC meeting, IT stated that out of 840 nos. of meters integrated, around data from 750 nos. of meters will be received each month. Data from the remaining 90 meters are to be collected manually.

In the 117<sup>th</sup> PSOC meeting IT stated that out of 840 nos. of meters integrated, data from 717 nos. of meters have been extracted for the month of December'17. Data could not be collected from 63 Nos. of meters, which were replaced, as the information was received by IT one day before. CGM (O&M) may instruct Secure meters Ltd to inform the replacement of meters to IT immediately.

In the 118<sup>th</sup> PSOC meeting, IT stated that out of 840 nos. of meters integrated, data from 754 nos. of meters have been extracted for the month of January'18. The extracted data will be compared with the M cubed meter reading. If found satisfactory, the project will be made go live.

In the 119<sup>th</sup> PSOC meeting IT stated that Parameters of 16 Nos. meters are showing wrong. DLMS data for the newly installed Secure meters are not coming. It was decided that O&M shall discuss the matter with Secure meters to resolve the issue.

In the 123<sup>rd</sup> PSOC meeting IT stated that out of 840 Nos. interface meters connected with AMI, 750 Nos. are reporting at present. The newly replaced meters are not reporting. 2 Nos. of meters has sent to M/s SECURE meters for study.

In the 127<sup>th</sup> PSOC meeting IT stated that TCS is demanding Rs. 6.5 lacs for developing the required software. The proposal is placed before the management for approval

In the 128<sup>th</sup> PSOC meeting IT stated that the memorandum has been placed before the PSC

In the 130<sup>th</sup> PSOC meeting IT stated that approved letter was yet to be received by them.

In the 131<sup>st</sup> meeting IT stated that TCS has already developed the driver for Paralakhemundi and Balasore S/S meters. Data fetching is under testing stage.

**Deliberations in the meeting**

IT stated that EMD has already been shared. Report is expected by end of April19.

[Action: IT / SLDC]

#### **D.5: Colony consumption of POWERGRID S/Ss**

In the 131<sup>st</sup> PSOC meeting SLDC stated that POWERGRID is consuming power for their colony, which is not reflected in the DISCOM bill. POWERGRID stated that they have applied to DISCOMs to make them consumer.

It was decided that SLDC shall convene a meeting between GRIDCO, POWERGRID & DISCOMs to discuss the issue.

CESU stated that POWERGRID has already made consumer of CESU. Other DISCOMs may insist to POWERGRID to become their consumer.

[Action: DISCOMs]

### **PART E: OPERATIONAL PLANNING**

#### **E.1: Commissioning status of new Transmission elements.**

The status of commissioning of new transmission elements deliberated in the meeting is as follows:

<b>Sl. No</b>	<b>Transmission element details</b>	<b>Present Status</b>
1	Commissioning of 220 kV Jayanagar-Jeypore 2 <sup>nd</sup> DC line	Expected to be completed by June'19.
2	Commissioning of 400 kV Meramundali-Mendhasal 2 <sup>nd</sup> ckt.	July'2019
3	220/33 kV, 2x20 MVA Baliguda S/S	July'19
4	220/33 kV, 2x20 MVA Kalimela S/S	July'19
5	220/33 kV, 2x20 MVA Kasipur S/S	April'2019. Line charged.
6	220/132 /33 kV, 2x100 MVA Aska S/S (132/33 kV side)	132/33 kV Side charged
7	220/132/33 kV, Goda Chhak S/S (320 MVA)	June'19
8	220/132/33 kV Jayapatana S/S(320 MVA)	July'19
9	220/132 kV Pratapsasan S/S(320 MVA)	Dec'19
10	220/132 kV Kesinga S/S (320 MVA)	July'19
11	132/33 kV Betanati S/S	Charged on 19.04.2019
12	132/33 kV R.Udyagiri S/S	July'2019

The Discoms are requested to take necessary action for availing power supply from those S/Ss and prepare their action plan for takeoff arrangement.

**CGM (Construction) / DISCOMs may deliberate**

#### **E.2: Major Events in the month of March'19**

1. On dt. 30.03.2019 at 08:00Hrs - #3 of IBTPS, OPGC (660MW) first time synchronized.
2. On dt. 31.03.2019 at 23:32 Hrs – 132 kV bus of 220/132/33 KV Aska (New) Grid S/S charged along with 1x40 MVA 132/33 kV Transformer through LILO of 132 kV Aska-Purusotampur line (Presently made “T” arrangement)
3. On dt. 31.03.2019 at 15:47 Hrs – 132/33 kV, Bhubaneswar UNIT -8, GIS S/S charged by connecting with 220/132/33 KV Chandaka -B GIS S/S through 132 kV UG Cable.

**Members may note**

#### **E.3: Important Grid Incidences during the month of March'19.**

Important Grid incidents during the month were reviewed.

**Deliberations in the meeting**

There are two incidents occurred during the month at Lapanga S/S due to tripping of 400 kV IBTPS-Lapanga feeders and Meramundali-Lapanga 400 kV feeders. The detail reports were sent to ERPC after analysis for discussion.

[Action: O&M]

**E.4: Outage of major transmission Elements during the month of March'19. (above 10 hrs).**

Outage of transmission elements for above 10 hrs was reviewed. The outages are due to jumper snapping and CT bursting.

[Action: O&M]

**E.5: Review of Outage Program of State Generators for the month of May'19:**

Tentative Outage programme for State Generators for the month of May'2019

Sl.	Station	Unit	Period	Remarks
1	Burla	# 1	14.03.18 to continue	T&G coupling cover water leakage Annual Maintenance Under R,M & U Under R, M & U
		# 4	25.10.18 to continue	
		# 5	25.10.16 to continue	
		# 6	16.10.15 to continue	
2	Chiplima	# 3	15.10.15 to continue	Under R,M work
3	Balimela	# 1	05.08.16 to continue	Under R,M work
		# 2	20.11.17 to continue	Under R,M work
4	Rengali	# 2	12.12.18 to 10.05.19	Replacement of Runner disc.
5	Upper Kolab	# 3	28.03.19 to 15.06.19	Generator stator inter turn / Earth fault Capital maintenance work
		# 4	01.02.19 to continue	

**OHPC may deliberate**

**E.6: Generation Program for the month of May'19.**

Generation schedule for the month of May'19 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Program (MW)		Reservoir Level as on 01.04.19	Reservoir Level as on 01.04.18	MDDL	High Flood Reservoir Level
	May'19 (1 <sup>st</sup> fortnight)	May'19 (2 <sup>nd</sup> fortnight)				
HPS-I, Burla	50	50	616.67 ft.	616.52 ft.	590 ft.	630 ft.
HPS-II, Chiplima	40	40	-	-	-	-
Balimela	360	360	1487.50 ft.	1456.50 ft.	1440 ft.	1516 ft.
Rengali	50	50	115.42 mtr.	119.66 mtr.	109.72mtr	123.5 mtr.
U.Kolab	100	100	851.33 mts.	850.72 mtr.	844 mtr	858 mtr.
U. Indravati	300	300	634.40 mtr.	632.61 mtr.	625mtr	642 mtr
MKD (O/D)	30	30	2730.90 ft.	2736.30 ft.	2685 ft.	2750 ft.
<b>TOTAL</b>	<b>930</b>	<b>930</b>				

Generation schedule may change depending on inflow & availability of machine.

**SLDC / OHPC may deliberate**

**E.7: Anticipated power generation and demand for the month of May'2019.**

Sl. No	Discom	Average	Peak
1	CESU	1250	1500
2	WESCO	1200	1400
3	NESCO	900	1000
4	SOUTHCO	480	550
<b>5</b>	<b>Total Discom</b>	<b>3830</b>	<b>4450</b>
	<b>System Loss &amp; others</b>	<b>150</b>	<b>200</b>
	<b>Total Demand</b>	<b>3980</b>	<b>4650</b>
<b>Availability</b>			
1	Hydro	930	1200
2	State Thermal	750	750
3	IPP, small hydro & RE	600	600
4	ISGS share (including OA& purchase)	1350	1750
5	CGP support (OA)	350	350
6	<b>Total availability</b>	<b>3980</b>	<b>4650</b>
7	<b>Surplus / Deficit</b>	<b>0</b>	<b>0</b>

**Members may discuss.**

## **PART F: OTHER ISSUES**

All members expressed their gratitude to Er. Sunasir Bhoi, Sr.GM (OHPC), who is going to retire from service on superannuation by end of this month for his advice and guidance. PSOC will remember his valuable advice and the foot prints he has left for all times with deep regard.

### **Additional agenda**

#### **F.1: Replacement of Energy meter at FRP**

SLDC stated that FRP energy meters need to be replaced since the event data is not coming.

[Action: FRP]

#### **F.2: Frequent variation of generation at Upper Kolab.**

Sr. G.M, UKHEP stated that SLDC is instructing for variation of Upper Kolab generation frequently resulting stressing of Machines. SLDC assured to look in to the matter and avoid such variations.

[Action: SLDC]

#### **F.3: Time synchronization of Tie line energy meters.**

SLDC stated that time synchronization of tie line energy meters need to be required to avoid mismatch of energy accounting. Since MRI is not available with OPTCL, it may be examined to request DISCOMs for sparing of their MRI for this purpose temporarily. OPTCL may coordinate.

[Action: OPTL/ DISCOMs]

#### **F.4: Date and Venue of the next (133<sup>rd</sup>) PSOC meeting.**

The date and venue of 133<sup>rd</sup> PSOC meeting will be intimated

## 132nd Power System Operational Co-ordination Committee Meeting

[ At 11:00 A.M. on dt. 19.04.2019 ]

[At PTC, Chandaka, Bhubaneswar]

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40						