



# STATE LOAD DESPATCH CENTRE

OFFICE OF THE CHIEF LOAD DESPATCHER

ODISHA POWER TRANSMISSION CORPORATION LIMITED

GRIDCO Colony, P.O.- Mancheswar Rly. Colony, Bhubaneswar-17, FAX-0674- 2748509

CIN – U40102OR2004SGC007553

No-SGM (PS)-PL-15/2016 /

742<sup>(45)</sup>

Dated: 28.02.2017

From:

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

To:

As per distribution list

**Sub: Minutes of 106<sup>th</sup> PSOC meeting held on 20.02.2017 at PTC, Chandaka, Bhubaneswar**

Sir,

Please find enclosed herewith the minutes of 106<sup>th</sup> Power System Operational Co-ordination meeting held on 20.02.2017 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), OHPC, Bhubaneswar
3. The CGM (O&M), OPTCL, Bhubaneswar.
4. The CGM (Const.), OPTCL Bhubaneswar.
5. The CGM (RT&C), OPTCL, Bhubaneswar.
6. The CGM (PP), GRIDCO, Bhubaneswar.
7. The CGM (Telecom), OPTCL, Bhubaneswar.
8. The CGM (IT), OPTCL, Bhubaneswar.
9. The Sr. G.M (Const)-I, OPTCL, Bhubaneswar.
10. The Sr. G.M (Const)-II, OPTCL, Sambalpur.
11. The Sr. G.M (CPC), OPTCL, Bhubaneswar.
12. The Sr. G.M (CP), OPTCL, Bhubaneswar.
13. The Sr. G.M. (O&M), Zone-I, Narendrapur.
14. The Sr. G.M.(O&M), Zone-II, Meramundali.
15. The CEO, CESU, Bhubaneswar.
16. The A.O., WESCO Utility, Burla
17. The A.O., NESCO Utility, Balasore
18. The A.O., SOUTHCO Utility, Berhampur.
19. The Member Secretary (GCC), OPTCL.
20. The ED, Power Grid Corporation of India, Bhubaneswar.
21. The Sr. G.M. (El.), BHEP, Balimela
22. The A.G.M. (El.), CHEP, Chiplima
23. The Sr. G.M. (El.), UIHEP, Mukhiguda
24. The Sr. G.M. (El.), RHEP, Rengali
25. The D.G.M. (El.), HHEP, Burla
26. The D.G.M. (El.), UKHEP, Bariniput, Koraput
27. The S.E. (O&M), Machhakund
28. The DGM (Elect.), IbTPS, OPGC, Banharpali.
29. The Vice President (O), IMFA, Choudwar.
30. The D.G.M. (O&M), NTPC (TTPS), Talcher.
31. The AGM (Elect.), JINDAL Stainless Ltd., Duburi
32. The G.M, HINDALCO, Hirakud.
33. The G.M.CPP, NALCO, Angul.
34. The Director, M/s. Jindal Steel & Power Ltd., Angul
35. The AVP-Vedanta Ltd (IPP), Jharsuguda
36. The G.M, Vedanta Ltd (CGP), Jharsuguda.
37. The DGM (Power Distribution), RSP, Rourkela.
38. Joint President, Aditya Aluminium Ltd., Lapanga, Sambalpur
39. The G.M.(Elect.), Bhusan Steel Limited. Meramundali
40. The G.M. (Elect.), Bhusan Power & Steel Ltd, Budhipadar.
41. The G.M.(Elect.), IFFCO Limited.
42. Director & COO, GMR Kamalanga Energy Limited, Satyanagar, Bhubaneswar.
43. The CEO, Bhubaneswar Power Pvt. Ltd, IRC Village, Nayapalli, Bhubaneswar

# Odisha Power Transmission Corporation Ltd. Bhubaneswar.

## Minutes of 106<sup>th</sup> PSOC meeting held on 20.02.2017 at PTC, Chandaka, Bhubaneswar

List of participants is at Annexure.

CLD, SLDC welcomed all the participants to the 106<sup>th</sup> Power System Operational Coordination meeting and highlighted the system performance during the month of January'2017 and overall power scenario of the State. He also emphasized on the power drawal, made by all the Discoms during the month.

D.G.M. (SS), SLDC took the agenda items for discussion.

### The review proceeded as follows:

#### 1: Confirmation of minutes of 105<sup>th</sup> PSOC meeting held on 21.01.2017

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2016/473<sup>(45)</sup> dated 04.02.2017 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 105<sup>th</sup> PSOC meeting was confirmed.

### PART A: List of items

List of items to be discussed in the meeting are given in the subsequent parts

### PART B : SYSTEM PERFORMANCE

#### **B1: Review of Grid Performance for the month of January'2017.**

##### **(A) Frequency**

It was noticed that, during the month of January'17, **72.88** % of times the frequency remained in the IEGC band i.e. 49.90Hz - 50.05Hz in comparison to **70.61** % during the month of December'16. The maximum and minimum System frequency during the month was **50.27 Hz & 49.81 Hz** respectively.

##### **(B) Grid demand**

Grid demand for the month of January'17 was reviewed. The average consumption during the month was **2820 MW**. The maximum System demand of **3794 MW** occurred on **04.01.17** at 19:00 Hrs and minimum demand of **2088 MW** occurred on **25.01.17** at 15:00 Hrs.

#### **Deliberation in the meeting**

It is observed that the average demand during the month of January' 17 was increased by 125 MW while the peak demand was decreased by 37MW from that of December'16. The average energy consumption during the month has been increased by 4 MW in comparison to January'16. The energy consumption has been decreased due to adverse weather during the month and massive use of LED lamps.

**(C) Voltage Profile of important Sub Stations in OPTCL System during the month of January'17.**

The Voltage profile at different 220 kV buses in OPTCL system during the month of **January'17** was reviewed. The maximum Voltage of **243.46** kV occurred at Jaynagar 220 kV bus while Narendrapur, 220 kV bus has experienced the minimum Voltage of **185.44** kV. Bus Voltages at Samgara and Lapanga could not be incorporated due to non availability of energy meter in those sub-stations. Status of replacement of defective CVT at Narendrapur may be updated. The 220 kV Voltage profile of Jayanagar and Narendrapur and 400 kV Voltage profile of Meramundali bus during the month of January 2017 is shown.

**Deliberation in the meeting:**

CGM (O&M) suggested to raise the issue of high Voltage at Jayanagar in the ERPC forum. Sr. G.M (O&M)-I stated that CVT at Narendrapur will be rectified by end of February'2017. However, Narendrapur Voltage shall be improved after charging of Atri S/S. From the Voltage profile at Jayanagar it is noticed that only 2 days of the month the Voltage has exceeded 142 kV. At Narendrapur only one day of the month the Voltage has gone below 192 kV. CGM (O&M) stated that proposal for installation of Reactor at Meramundali will be placed in the BoD meeting.

[Action: CGM (O&M) / SLDC]

**(D) Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of January'17.**

Auto loading of all 220 kV S/Ss was reviewed. It was noticed that some of the Autos have not been provided with energy meter.

**Deliberation in the meeting:**

CGM (O&M) stated that order for procurement of energy meters has already been placed.

[Action: CGM (O&M)]

**(E) DISCOM Drawal during the month of January'17**

The schedule and actual energy drawal by Discoms for the month of **January'17** was reviewed.

**Deliberation in the meeting:**

It was noticed that CESU had overdrawn **16.781** MU while SOUTHCO had over drawn **04.204** MU. NESCO and WESCO were under drawn during the month.

[Action: All Distribution Utilities / SLDC]

**(F) Energy Generation / import during the month of January'17**

Energy generation and exchange during the month of January'17 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 **2098.38** MU.

**Deliberations in the meeting**

The energy demand has not increased appreciably due to induction of LED.

[Action: SLDC]

**(G) Drawal of Machhakund Power during the month of January'17**

The drawal of Machhakund power during the month of January'17 was **33. 356** MU, against AP drawal of **32. 627** MU.

In the 105<sup>th</sup> PSOC meeting CGM (Telecom) stated that RVDU is expected to be commissioned by February'17.

**Deliberations in the meeting:**

For the first time Odisha drawal has exceeded AP drawal due to continuous effort by SLDC as well as Jayanagar S/S. SGM (Telecom) stated that RVDU is expected to be commissioned by mid of March'17. CGM (O&M) stated that the traction bay at Machhakund PH Switch Yard and associated

line need to be equipped for evacuation of power from the proposed 20 MW Lower Machhakund small hydro station, which is likely to come up in near future.

[Action: Sr. GM (O&M)-I / OHPC / Southco / Gridco / SLDC]

**(H) Under Frequency relay operation in OPTCL System during the month of January'17.**

There is no UF Relay operation occurred during the month of January'17 as the frequency had never gone beyond 48.50 Hz.

**(I) Status of Open Access applications during the month of January'2017**

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

**PART C – Issues discussed in the 130<sup>th</sup> OCC meeting of ERPC on 17.02.2017**

**C.1: Status of projects funded under PSDF schemes**

In the PSDF review meeting held on 29.04.16 at N. Delhi, 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 is as given below:

Sl No	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	Amount Approved (in Rs.)	Amount Drawn till date (in Rs.)	Status as updated in 122 <sup>nd</sup> meeting
3	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	10.05.17	162.5 Cr.	19.53 Cr.	<p>1. Letter of Award detail submitted to PSDF till date: ₹18.70Cr.</p> <p>2. Letter of Award detail under process for submission to PSDF till date: ₹49.03Cr.</p> <p>3. Amount received from PSDF:            i. ₹4.92Cr. against LOA submitted under item 1 (i.e,- ₹18.70Cr.)            ii. 10% of sanctioned amount. ₹14.67Cr.</p>

ERPC advised to submit monthly updated report to RPC secretariat.

In the 103<sup>rd</sup> PSOC meeting, it was decided that SLDC shall prepare the DPR for implementation of ADMS and submit to CGM (O&M) for inclusion in PSDF.

In the 129<sup>th</sup> OCC meeting, ERPC advised to furnish the information in the prescribed format (Annexure-B.3 of OCC agenda) by first week of every month on regular basis to Member Convener, PSDF Project Monitoring Group (AGM, NLDC, POSOCO) with a copy to NPC Division.

In the 105<sup>th</sup> PSOC meeting it was decided that SLDC shall prepare the DPR in respect of ADMS implementation and placed before the BoD for approval. After approval the same will be proposed for PSDF funding.

**Deliberations in the meeting**

SLDC stated that the DPR has already been prepared which will be forwarded to O&M for examination.

After approval in the BoD, the same will be proposed for PSDF funding.

[Action: CGM (O&M) / SLDC]

### **C.2: Consideration of STU lines as Non-ISTS lines carrying ISTS power**

In line with 34th TCC decision, ERPC and ERLDC conducted the load flow study using WebNet software for first three quarters of validated data. Summary of the results for percentage utilization of the transmission line by STU to meet the own demand is given at **Annexure-B.5**.

Balance (100 - utilization of the transmission line by the STU) is the ISTS power flowing through the line.

*128th OCC decided that ISTS power flowing through STU lines greater than 50% of the total power as per the WebNet software of the validated data for each quarter will be considered as ISTS line.*

*Members provisionally agreed to the above decision. OCC advised Member Secretary to have interaction with other RPCs to get acquainted with their decisions in this regard.*

*OCC advised all the state constituents to submit their comments if any, to ERPC and ERLDC. It was also pointed out that for final decision on the same needs to be taken by CERC and for this constituents are to file petition before CERC.*

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

A meeting was convened by CGM (RTC) on 18.02.2017 to discuss the issue. LILO of 220 kV Katapali- Bolangir line at Bolangir (PG) to be incorporated in the list. CLD, SLDC stated that OCC advised to approach CERC to incorporate the above line. It was decided that a CGM (RT&C) shall take necessary action in this matter.

[Action: CGM (RT&C) / CGM (O&M)]

### **C.3: High Voltage problem in 400 kV Meramundali grid S/S: Regarding**

GRIDCO vide letter dated 07.01.17 intimated that presently Odisha is going through very high Voltages at 400kV bus of Meramundali, Duburi and Mendhashal grid S/S. The situation is further worsened due to high reactive power flow from Meramundali to Angul pooling sub-station, from Duburi to Meramundali sub-station and from Kuchei to Duburi sub-station. It may be noted that, PGCIL has installed two nos. of 330 MVAR Bus reactors at Angul 765kV substation and two nos. of 125 MVAR Bus reactors at Angul 400kV substation, thus resulting high reactive power flow from Meramundali to Angul & Duburi to Meramundali grid S/S. In view of the above OPTCL suggests the following as short term and long term measures to mitigate the high Voltage issue as well as to improve the high reactive power flow situation.

#### **Short term measure**

OPTCL will install 80 MVAR reactor at Meramundali 400kV S/S.

The Angul-Meramundali Double circuit ties to be opened at both ends.

#### **Long term measure**

The Meramundali-Angul Double circuit will be terminated at Meramundali (B).

A letter regarding the above change has already been forwarded to CEA and will be placed in the next Standing Committee meeting of CEA. Meramundali (B) will be a new 400kV substation of OPTCL, approved by CEA and the work order to be issued shortly.

In view of the above and as the high voltage situation is menacing, it is requested to grant permission for the short term measures, mentioned above, to get relief from the high voltage issue and high reactive power flow. The system in the above condition will remain *stable*.

In 129th OCC, GRIDCO informed that they are incurring substantial financial loss on account of reactive charges due to this overvoltage problem at 400 KV Meramundali sub-station and requested to explore the high voltage scenario by opening of 400 kV Angul-Meramundali D/C tie on trial basis.

ERLDC informed that the same may be granted as per real time grid conditions.

Further, OPTCL requested OCC to take up the issue of opening of LILOs of 400 kV Talcher-Meramundali & Bolangir –Meramundali lines at 765/400 kV Angul S/s which was already decided in 17th SCM meeting.

OCC viewed that as it is the matter related to Standing Committee of ER the same may be taken up with CEA/CTU.

Subsequently, MS took up the issue with CTU and it was agreed that ERLDC will carry out study for Reactive power flow in OPTCL system.

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

In the 130<sup>th</sup> OCC it was deliberated that, the Voltage profile at Meramundali will become further high on disconnection of Meramundali-Angul (PG) ckts. However after restoration of Meramundali-Mendhasal line and commissioning of ICT at Meramundali, a trial shall be made for physical verification.

CGM (PP) stated that the generators connected to Meramundali should absorb VAr as per their capability and scope to arrest VAr injection by the State at higher Voltage. SLDC shall monitor such activity on real time.

**[CGM (O&M) / CGM (PP)/ SLDC]**

#### **C.4: Restoration of PLCC system of important lines**

In 119th OCC, JUSNL informed that the following:

- a) In 220 KV Chandil –Santaldih line auto-reclosure has been enabled and termination done in PLCC panels at Chandil end but due to non-availability of PLCC panels at Santaldih (WBPDC) end the A/R and PLCC scheme could not be activated.
- b) In 220 KV Ramchandrapur-Joda line auto-reclosure has been enabled and termination done in PLCC panels at Ramchandrapur end but due to non-availability of PLCC panels at Joda (OPTCL) end the A/R and PLCC scheme could not be implemented.

Further, it was informed that JUSNL is ready to share their standby PLCC panels (BPL make) with WBPDC (for Santaldih end) and OPTCL (for Joda end) to complete the PLCC schemes of both the above lines.

*In 34th TCC, WBPDCCL informed that PLCC panels will be delivered by November, 2016 and installation of the panels will be completed by December, 2016.*

*OPTCL informed that purchase order has been placed to BPL and supply is expected by December, 2016.*

*In 128th OCC, WBPDCCL informed that PLCC system will be installed by end of December, 2016. OPTCL informed that PLCC panels will be installed by 2nd week of January 2017.*

In the 129th OCC meeting of ERPC it was deliberated that the commissioning work shall be completed within 10 days.

In the 105<sup>th</sup> PSOC meeting CGM (Telecom) stated that the PLCC will be commissioned by 1<sup>st</sup> week of February'17.

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

CGM (Telecom) stated that the PLCC will be commissioned by end of March'17.

**[Action: CGM (Telecom)]**

#### **C.5: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s**

PGCIL has already commissioned the 2x315MVA 400/220kV Bolangir S/s by LILoing of 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 130<sup>th</sup> OCC of ERPC, SLDC deliberated the completion schedule of inter-connecting system as follows:

<b>Sl. No.</b>	<b>Name of the transmission line</b>	<b>Completion schedule</b>
<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 S/S.	Construction of 220 kV Sadeipali-Kesinga portion only is under consideration. Expected by March-17
b.	LILo of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S.	<b>Charged on 04.05.16</b>
<b>2.</b>	<b>400/220 kV Keonjhar S/S.</b>	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	By 2017
b.	Keonjhar (PG)-Turumunga (OPTCL) 220 kV D/C Line.	By 2019
<b>3.</b>	<b>400/220 kV Pandiabil Grid S/s</b>	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C line	December 2017 (Work started)
b.	LILo of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	March'2017

**[Action: CGM (Const) / CGM (O&M)]**

#### **C.6: 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 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 113<sup>th</sup> 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.

In the 105<sup>th</sup> PSOC meeting IT stated that the award of work directly to STQC is under examination. The L2 bidder has also been invited for negotiation.

**Deliberations in the meeting**

IT stated that the award of work will be placed by 1<sup>st</sup> week of March'2017

[Action: CGM (IT)]

**C.7: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.**

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

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

In the 105<sup>th</sup> PSOC meeting O&M stated that price bid will open on 3<sup>rd</sup> February'2017.

**Deliberations in the meeting**

O&M stated that the proposal will be placed before PSC due to single bid.

[Action: O&M]

**C.8: Implementation of New Web Based Scheduling at ERLDC**

Presently, development of web-based scheduling software at ERLDC by PWC is completed and the testing of the software is at final stage. Now ERLDC is doing the parallel operation of the new WBES software along with the older one. The same software was already being installed at WRLDC and made operationalize with effective from 01st July, 2016. A detailed workshop cum interactive Session with all Stakeholders/beneficiaries shall be arranged during 20-21 February, 2017, wherein the detailed presentation of the software features and new scheduling procedures, associated issues and concerns will be deliberated. Some new procedure like surrender philosophy, LTA/MTOA requisition and ramping up/down rate consideration of ISGS had already been deliberated and approved in 123<sup>rd</sup> OCC, ERPC meeting. The beta version of the software will be available for testing after training to the stake holders. In this regards all users – regional constituents, generators (RLDC control Area) and regional entities are requested to nominate 1-2 officers involved in scheduling activity at your end in the proposed training cum joint exercise on WBES at ERLDC Kolkata during 20 – 21 February 2017.

**Deliberations in the meeting**

SLDC stated that Officers from SLDC have already deputed for training programme at ERLDC.

[Action: SLDC]

**C.9. Tie bay of 125MVAR Bus reactor and 400kV Indravati-Indravati and Indravati(PG):**

Under outage wef 18/03/16 due to R-Ph pole bursting of Tie CB. Due to non-availability of the tie bay, the Buses are coupled only via the tie bay of 400kV Rengali-Indravati and 400kV Indravati-Jeypore at Indravati and any outage of the lines would result in decoupling of the Buses.

In 125th OCC, Powergrid informed that main CB has some problem which will be taken care by OHPC/OPTCL.

*In 126th OCC, OPTCL informed that a CB is being shifted from Mendhasal for replacement of the subjected CB. The installation work will be completed by November,2016.*

*In 128th OCC, OPTCL informed that the CB is yet to be transported to the site from Mendhasal.*

In the 105<sup>th</sup> PSOC meeting it was deliberated that work has already been started.

In the 129<sup>th</sup> OCC meeting of ERPC it was deliberated that the commissioning of breaker shall be completed by 15<sup>th</sup> February, 2017.

**Deliberations in the meeting**

CGM (O&M) stated that the work will be completed by end of March'2017.

[Action: CGM (O&M)]

**C.10: Implementation of Automatic Demand Management Scheme**

OPTCL vide mail dated 24.02.2016 pointed that Hon'ble CERC vide their order dated 31.12.2015 passed in Sou-motu Petition No.- 5/SM/2014 in the matter of non-compliance of Regulation 5.4.2 (d) of IEGC directed all Respondents (SLDCs) for implantation of ADMS in their respective control area. CERC have allowed dead line till 30.06.2016 to the Respondent for implementation of ADMS. Failing which they will be liable for action under Section 142 of the Act.

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A team of officers had visited Gujarat SLDC on 30.08.2016 to observe the implementation of ADMS in their State. It was found that a separate type of RTU known as "Client RTU" has to be installed in the grid sub-stations where the pre identified 33kV feeders (to be isolated under ADMS) are located. These are in addition to the existing RTUs. One ADMS server shall be installed at SLDC which will acquire data from SCADA server to compare the over drawal of the State and Discoms and send the signal to the client RTU for isolation of the pre identified 33kV feeders. Since, all these activities are related to SCADA & communication, Telecom wing need to be involved for implementation of the scheme. A team is to be constituted with Telecommunication, SLDC & OPTCL Engineers for this purpose.

One presentation was made by M/s Kirti Telnet, Ahemedabad, the agency provided ADMS solution to Gujarat on 17.10.16 in the Conference Hall of GRIDCO. SLDC shall float tender for this purpose.

In the 103<sup>rd</sup> meeting, SLDC stated that Technical specifications have already been prepared considering Sub-station automation along with views of Telecom. Tender will be floated by 15<sup>th</sup> January'17 after finalization of financial terms & conditions. SLDC may confirm whether separate RTUs are required or not in view of S/S automation scheme taken up by OPTCL.

In the 105<sup>th</sup> PSOC meeting SLDC stated that the DPR will be prepared for approval of BoD for PSDF funding.

**Deliberations in the meeting**

SLDC stated that the DPR has already been prepared which will be forwarded to O&M for examination.

[Action: SLDC]

**C.13: Mock Black start exercises in Eastern Region**

Schedule of Mock black start exercise for State Hydro Stations are as tabled.

Sl.	Name of HEP	Completed on	Scheduled
1	U.Kolab	25.01.2017	January 2017
2	Rengali	25.01.2017	January 2017
3	Upper Indravati	16th July 2016	March 2017
4	Burla	28.07. 2016	March 2017

**Deliberations in the meeting**

OHPC and SLDC have agreed to conduct Black start exercise as per the schedule.

**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 **January'17** was reviewed.

**Deliberations in the meeting.**

It was noticed that CESU had overdrawn 16.781 MU while SOUTHCO 4.204MU.WESCO and NESCO were under drawn 6.516 MU and 12.079 MU respectively.

NESCO stated that the Open Access schedule of embedded customers is retrospectively revised by SLDC which leads to problem on monitoring their drawal schedule. SOUTHCO stated that actual drawal of Bhanjanagar Auto is not matching with SCADA data. All Distribution Utilities were advised to predict their day ahead drawal accurately to avoid overdraw.

[Action: SLDC /Telecom / All Discoms]

**D.2: Prolonged outage of transmission elements and tentative revival dates**

The tentative revival dates of transmission elements are updated in the last meeting are as follows:

Sl.No	Name of transmission element	Reason of outage	Probable date of revival
1	400kV Meramundali-Mendhasal ckt.	Tower Collapse at Loc-180, 181 & 182	February-2017
2	400/220kV, 315 MVA ICT-I at Meramundali	Burnt	March-2017
3	220 kV Meramundali-Bhanjanagar ckt-I	Conductor replacement	March-2017
4	220 /132 kV, 100 MVA, Auto-3 at Chandaka.	Breaker replacement	March'2017
5	220/132 kV, 100 MVA, Auto- 2 at Duburi	Oil leakage since 24 <sup>th</sup> October'2016	
6	132 kV Sunabeda-Damanjodi line	For conversion to DC	15 <sup>th</sup> March'2017

[Action: CGM (O&M)]

**D.3: Communication issues****Installation of communication equipment by CGPs / Industries.**

The status of data communication from CGPs as deliberated in the last meeting is as follows.

Sl.	Name of CGP	Present status
1	M/s IFFCO, Paradeep	Outdoor commissioning work completed. RTU was locally tested. After replacement of the faulty CVT, data will be integrated.
2	M/s MSP Mettalicks	PLCC / RTU installed. Database has already been prepared by OPTCL. Final RTU integration with OPTCL system by the vendor is awaited.
3	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.
4	M/s Rohit Ferro tech	PLCC established and inspection by Telecom Engineers completed. Database has already been prepared by OPTCL.
5	BPSL	No kV
6	CONCAST	No kV/Hz.
7	BSL	No Hz & status data.
8	JSL	No Bus kV / Hz (for Bus-2)
9	TSIL	No data
10	VISA	CB & Status data are not available
11	Paradeep	Data not available at ERLDC
12	Bolangir (New)	Data not available at ERLDC

It was also decided that GCC, OPTCL may file a case before the OERC through RT&C wing of OPTCL against those CGPs not complying the data communication provisions with SLDC.

In the 102<sup>nd</sup> PSOC meeting CGM (RT&C) stated that they have already intimated the list of CGPs / Bulk consumers not complying with the provisions of data communication with SLDC.

In the 103<sup>rd</sup> meeting, SLDC suggested that RT&C wing may approach again to OERC if required through an affidavit.

In the 105<sup>th</sup> PSOC meeting GCC stated that OERC have asked to submit the status of data communication through SCADA by the Users by 28<sup>th</sup> February'17. A separate meeting to discuss the issue will be convened for discussion

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

It was deliberated that GCC has convened a meeting with all the CGP and EHT consumers on 21<sup>st</sup> February'2017 to discuss the communication issues. Further course of action will be decided after the meeting. SGM (Telecom) stated that data from Paradeep S/S will be obtained after availing shutdown of 220 kV Duburi-Paradeep DC line for OPGW stringing.

[Action: CGM (Telecom) / GCC/RT&C]

#### **D.4: Web based drawal / generation scheduling.**

SLDC is going to implement web based drawal / generation scheduling for Dist. Utilities and State generating stations including IPPs and CGPs soon.

SLDC had organized training on web based scheduling on 11.05.2016 for all the CGPs connected with OPTCL network. The feedback of the CGPs has been forwarded to IT wing.

IT wing presented a demo before SLDC on 19<sup>th</sup> December 2016.

SLDC organized a demo on 27<sup>th</sup> December'2016 for all the CGPs. As reported by the CGPs, they are facing some problems while using the application. The feedback of CGPs has been forwarded to IT wing for necessary action.

In the 105<sup>th</sup> PSOC meeting CGM (IT) stated that they have resolved the issues which are minor. Scheduling through the software may be done from 1<sup>st</sup> April'17. SLDC stated that the Discom and generation scheduling may also be included by March'17.

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

CGM (IT) stated that SLDC may coordinate with Discoms and all generators and intimate to IT.

[Action: SLDC / All CGPs / IT]

#### **D.5: Implementation of Automatic Meter Reading for OPTCL-Discom interface points.**

The work for Automatic Meter Reading (AMR) for all the interface points is in progress.

It was deliberated that that from 1<sup>st</sup> March onwards the AMR shall be made "Go live". Data will be available after one hour lapses of time.

In the 100<sup>th</sup> PSOC meeting CGM (IT) stated that by end of August'2016 testing of all meters of CESU control area will be completed for billing purpose. SLDC may check August data from both the meters.

In the 104<sup>th</sup> PSOC meeting, DGM (IT) stated that, data from 90 Nos of S/Ss will be provided by January'2017. Gridco stated that the events such as PT failure, CT polarity reversal, meter power failure, MD reset, time synchronization etc. are not being incorporated the AMR. It was decided that IT, SLDC and GRIDCO may have a separate meeting to resolve the issue.

In the 105<sup>th</sup> PSOC meeting DGM (IT) stated that, data from 100 Nos of S/Ss will be provided by February'17. The issues raised by Gridco will be addressed except Time synchronization and MD reset.

### **Deliberations in the meeting**

DGM (IT) stated that, data from 105 Nos of S/Ss have been obtained. By March all 125 Nos of S/S data will be provided to SLDC for checking.

[Action: CGM (IT) / SLDC / GRIDCO]

### **D.6: Software for Deviation charge billing.**

Hon'ble OERC may notify "Intra State Deviation settlement and related matters" Regulation at any time. For implementation of the regulation, required software for Deviation Charge billing need to be developed and tested. CGM (IT) may take necessary steps for development of the software.

In the 102<sup>nd</sup> PSOC meeting, CGM (IT) stated that OPTCL BoD have approved for closure of contract with Infosys. SLDC may submit their new requirement if any, along with the left out works. In the 103<sup>rd</sup> PSOC meeting, IT stated that data tender document has been prepared. Some disputes with Infosys are yet to be resolved for which legal opinion has been sought for.

In the 104<sup>th</sup> PSOC meeting CGM (IT) stated that a meeting has been scheduled on 23<sup>rd</sup> December'17 to discuss the issue. The decisions in the meeting will be communicated to CSC for necessary action.

In the 105<sup>th</sup> PSOC meeting CGM (IT) stated that the work will be awarded to TCS. SLDC has to spare one officer to involve with them.

### **Deliberations in the meeting**

CGM (IT) stated that the work will be awarded to TCS after notification of Deviation Mechanism Regulations by OERC. SLDC stated that OERC may not allow time for implementation of the DSM Regulations. As such action may be taken for placing Order.

[Action: SLDC / IT]

### **D.7: DISCOM Issues**

#### **CESU**

- (i) There is a wide variation between actual drawal data and SCADA drawal data. The actual drawal of CESU excluding open access is 565.509 MU against 553.630 MU as per the SCADA data.
- (ii) Request to take action to show 15 minutes block wise correct SCADA data for better day ahead load forecast.

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

SLDC stated that CESU may develop the demand estimation logic without depending fully on SCADA data. Both data may be compared to ascertain the error correction factor. The SCADA display data is for monitoring purpose only, which may not match exactly with the meter data.

[Action: CESU/ CGM (Telecom)]

#### **NESCO Utility**

- (i) In a no. of cases the revision of the Open Access schedule of Nesco Utility is being done by SLDC without any intimation to the Discom(here,Nesco Utility).There after this revision is being implemented with retrospective aspect from last several hours.The revision is to be made with immediate effect.

- (ii) The Data communication of Rairangpur, Bangiriposhi & Barbil grid is not available on real time basis.

### Deliberations in the meeting

SLDC stated that the officers of NESCO deployed at SLDC should have brought the same to the notice of SLDC immediately for rectification. SGM (Telecom) stated that data from Bangiriposi will be made available by March'2017.

[Action: SLDC / Telecom]

## 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:

Sl. No	Transmission element details	Present Status
1	Commissioning of 220 kV Jayanagar-Jeypore 2 <sup>nd</sup> DC line	Work has already been started. Expected to be completed by June' 2017.
2	Commissioning of 400 kV Meramundali-Mendhasal 2nd ckt	Line is ready and shall be charged after commissioning of 3 <sup>rd</sup> ICT at Mendhasal, which is under progress. ICT is at BHEL factory. Expected by June'2017.
3	Commissioning of 220 kV Bidanasi-Cuttack line	Idle Charged on 29.11.2016
4	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by February' 2017.
5	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by March 2017. Stringing started.
6	Commissioning of 220/132 kV Kesinga S/S	Work under progress. Expected by December' 2017.

The list of Grid S/Ss charged during FY 2016-17 and scheduled to be charged during December'2016 to March'2017 is as tabled.

132 kV Grid S/S charged during FY 2016-17 (till 01.11.16)				
Sl.No	Name of S/S	Date of charging	No. of bays	Name
1	Puri (Samangara)	30.05.2016	5	Sriramnagar
				Sriramnagar
				Gabakunda
				Vacant
				Vacant
2	Bangiriposi	03.10.2016	4	Bangiriposi under progress
				Vacant
				Vacant
				Vacant
132 kV Grid S/S expected to be charged during November'16 to March'17				
1	Infocity-II	23.12.2016	5	
2	Khajuriakata	March'17	5	33/11 kV S/S under Dindayal Scheme.
3	Chandaka-B	March'17	5	33/11 kV Chandaka S/S under ODSSP.
4	Malkangiri	March'17	5	Govindapali & Padia S/S construction in progress under ODSSP
5	Olaver	March'17	5	
6	Patangi	February'17	5	

7	Podagada	March'17	5	
8	Bonei	March'17	5	
9	Kasipur	March'17	5	
10	Bhogorai	March'17	5	
11	R.Udayagiri	March'17	5	
12	Tusara	March'17	5	

Distribution Utilities have to provide their action plan take-off arrangement for these S/Ss.

In the 103<sup>rd</sup> PSOC meeting CGM (O&M) suggested to adopt required protection standards may be at New Duburi sub-station if not already done. Independent approach to Argul sub-station may also be explored.

AO, WESCO had suggested the Discoms to estimated the cost involved in the take off arrangement & sent to Government for funding after due approval of District Committee.

In the 104<sup>th</sup> PSOC meeting, AO, WESCO stated that funding arrangement has been done for Lapanga takeoff arrangement.

In the 105<sup>th</sup> PSOC meeting SOUTHCO stated that they have taken similar step for Govt. funding. Other Discoms were requested to take necessary action.

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

AGM EHT(Const) stated that Discoms may take necessary action for drawal of power from the S/Ss already charged.

**Action: ALL DISCOMS/ / CGM (O&M) / CGM (Const.)]**

#### **E.2: Energy Metering at Hydro stations.**

Energy meters have already been installed at all hydro stations. Billing for all OHPC stations is being done from the newly installed energy meters.

On completion of the above energy accounting for hydro stations will be taken up by SLDC.

In the 101<sup>st</sup> PSOC meeting OHPC stated that TTPS feeder meter at Rengali PH is yet to be changed. Sr. G.M. Indravati PH stated that ICT-II meter at Indravati is not recording correctly.

O&M may take necessary action for rectification of the meters at those hydro stations, so that energy accounting for hydro stations will be taken up by SLDC.

In the 103<sup>rd</sup> PSOC meeting, Sr. G.M., UIHEP stated that PT problem at Indravati will be resolved by January 2017.

In the 104<sup>th</sup> PSOC meeting it was suggested that OHPC shall explore rectification of PT at Indravati ICT, so that the energy accounting and computation of system loss for the state network will be done by SLDC.

In the 105<sup>th</sup> PSOC meeting Sr. G.M (Indravati) stated that Alstom Engineer will visit the site by 28<sup>th</sup> January. By the end of February the CVT is expected to be rectified.

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

Sr. G.M (Indravati) stated that CVT problem has already been rectified. Meter data may be considered for energy accounting as well as billing purpose w.e.f 1<sup>st</sup> April'2017.

**[Action: OHPC/ GRIDCO / SLDC]**

#### E.4: Major Events in the month of January'17

No report in respect of major events in OPTCL network during the month has been received.

[Members may note]

#### E.5: Important Grid Incidences during the month of January'17.

Important Grid incidents during the month were reviewed. O&M may analyze the incidents for deliberation in the OCC meeting of ERPC.

[Action: O&M]

#### E.6: Outage of major transmission Elements during the month of January'17. (above 10 hrs).

Outage of major transmission elements above 10 hours during the month was reviewed. The outages are due to insulator damage and Breaker mal-function.

[Action: O&M]

#### E.6: Review of Outage Program of State Generators / Transmission elements for the month of March'17:

Tentative Outage programme for State Generators for the month of **March'2017** are as follows:

Sl.	Station	Unit	Period	Remarks
1	Burla	# 2	22.07.16 to 15.03.17	Capital Maintenance
		# 3	10.03.17 to 31.03.17	Annual Maintenance
		# 5	25.10.16 to continue	Under R,M & U
		# 6	16.10.15 to continue	Under R, M & U
2	Chiplima	# 3	15.10.15 to continue	Under R,M & U
3	Balimela	# 1	05.08.16 to continue	Under R,M & U
		# 3	06.02.17 to 20.02.17	IDV problem
		# 8	07.11.16 to 28.02.17	Excitation problem
4	Rengali	# 1	09.01.17 to 20.02.17	Annual Maintenance
5	Upper Kolab	# 3	24.01.17 to 22.02.17	Annual Maintenance
6	Upper Indravati	# 2	02.02.17 to 28.02.17	Annual Maintenance
		# 3	01.03.17 to 31.03.17	Annual Maintenance

**OHPC / SLDC may deliberate.**

#### E.7: Generation Program for the month of March'17.

Generation schedule for the month of March'17 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.02.16	Reservoir Level as on 01.02.17	MDDL	High Flood Reservoir Level
	Mar'17 (1 <sup>st</sup> fortnight)	Mar'17 (2 <sup>nd</sup> fortnight)				
HPS-I, Burla	45	45	622.39ft	625.52 ft	590 ft.	630 ft.
HPS-II, Chipilima	35	35	-	-	-	-
Balimela	200	200	1492.40 ft	1500.80 ft	1440 ft.	1516 ft.
Rengali	70	70	117.95 mt	122.15 mt	109.72m	123.5 mtr.
U.Kolab	120	120	854.96 mt	855.79 mt	844 mtr	858 mtr.
U. Indravati	250	250	634.60 mt	638.21 mt	625mtr	642 mtr
MKD (O/D)	40	40	2739.75 ft	2734.85 ft	2685 ft.	2750 ft.
<b>TOTAL</b>	<b>760</b>	<b>760</b>				

[Action: OHPC / SLDC]

#### E.8: Anticipated power generation and demand for the month of March'2017.

Sl. No	Discom	Average	Peak
1	CESU	900	1250
2	WESCO	800	1150
3	NESCO	800	1000
4	SOUTHCO	400	550



<b>6</b>	<b>Total Discom</b>	<b>2900</b>	<b>3950</b>
	<b>System Loss</b>	<b>120</b>	<b>150</b>
		<b>3020</b>	<b>4100</b>
<b>Availability</b>			
1	Hydro	760	1450
2	State Thermal	750	800
3	IPP, small hydro & RE	700	750
4	ISGS share (including OA)	800	900
5	CGP support (OA)	150	200
6	<b>Total availability</b>	<b>3160</b>	<b>4100</b>
7	<b>Surplus / Deficit</b>	<b>140</b>	<b>00</b>

[Action: All Discoms]

## PART F: OTHER ISSUES

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

### **F.1: Renaming of SLDC website.**

The present id of SLDC website is <http://www.sldcorissa.org.in>. It is proposed to rename the name of the website as “[www.sldcodisha.org.in](http://www.sldcodisha.org.in)”.

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

CGM IT may examine the proposal

[Action: CGM (IT)]

### **F.2: Proposal planned shutdown of transmission elements**

SLDC stated that the proposal for planned shutdown of transmission elements requiring consent of ERLDC should be submitted to SLDC, three days before as, ERLDC is not responding during holidays.

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

CGM (O&M) may issue instruction to all field circles accordingly.

[Action: CGM (O&M)]

### **F.3: Agenda by BPPL**

BPPL stated that their generating units are getting isolated frequently due to over Voltage.

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

CGM (O&M) stated that OPTCL network is experiencing over Voltage problem. However, the over Voltage at BPPL may be resolved after charging of 400 kV Mendhasal-Meramundali line.

[Action: CGM (O&M)]

### **F.4: Date and Venue of the next (107<sup>th</sup>) PSOC meeting.**

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

It was proposed that the 107<sup>th</sup> PSOC meeting will be organized by TTPS (NTPC). TTPS also agreed to the proposal. TTPS may send a formal letter in this regard to CLD, SLDC

[Action: TTPS (NTPC)]

**F.5:** The meeting ended with Vote of thanks by GM (GO), SLDC.

**List of participants in the 106<sup>th</sup> PSOC meeting dated 20.02.2017**

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