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CIN – U40102OR2004SGC007553

No-SGM (PS)-PL-15/2016 / 1687453

Dated: 08.05.2017

From:

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

To:

As per distribution list

Sub: Minutes of 108th PSOC meeting held on 24.04.2017 at PTC, Chandaka

Sir,

Please find enclosed herewith the minutes of 108th Power System Operational Co-ordination meeting held on 24.04.2017 at PTC, Chandaka.

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 108th PSOC meeting held on 24.04.2017 at PTC, Chandaka

List of participants is at Annexure.

CGM, SLDC welcomed all the members to the 108th PSOC meeting. In his welcome address he highlighted the system performance during the month of March'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 107th PSOC meeting held on 22.03.2017

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2016/1377⁽⁴⁹⁾ dated 17.04.2017 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 any other members, the minutes of 107th PSOC meeting was confirmed.

PART B : SYSTEM PERFORMANCE

B1: Review of Grid Performance for the month of March'2017.

(A) Frequency

It was noticed that, during the month of March'17, **72.57 %** of times the frequency remained in the IEGC band i.e. 49.90Hz - 50.05Hz in comparison to **76.35 %** during the month of February'17. The maximum and minimum System frequency during the month was **50.16 Hz & 49.78 Hz** respectively.

(B) Grid demand

Grid demand for the month of March'17 was reviewed. The average consumption during the month was **3173 MW**. The maximum System demand of **4064 MW** occurred on **29.03.17** at 21:00 Hrs and minimum demand of **2301 MW** occurred on **11.03.17** at 04:00 Hrs.

Deliberation in the meeting

It is observed that the average demand during the month of March' 17 has been increased by 241 MW while the peak demand was increased by 219 MW from that of February'17. The average demand during the month has been decreased by 57 MW in comparison to March'16. The energy consumption has been decreased due to reduction of energy drawal by the industrial consumers and induction of LED lamps in to the system.

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

The Voltage profile at different 220 kV buses in OPTCL system during the month of **March'17** was reviewed. The maximum Voltage of **241.67 kV** occurred at Jaynagar 220 kV bus while Narendrapur, 220 kV bus has experienced the minimum Voltage of **198.26 kV**. Bus Voltages at Samgara and Lapanga could not be incorporated due to non availability of energy meter in those sub-stations. The 220 kV Voltage profile of Jayanagar and Narendrapur and 400 kV Voltage profile of Meramundali bus during the month of March 2017 is shown.

Deliberation in the meeting:

Narendrapur Voltage shall be improved after charging of Atri S/S. From the Voltage profile at Jayanagar it is noticed that only one or two days of the month Jayanagar bus Voltage has gone beyond 240 kV. At Narendrapur, the Voltage band is remaining between 200-215 kV only during evening peak except some stray cases. In the OCC meeting it was decided that the transformer tap at Jeypore PG will be kept at 12.

OHPC stated that harmonics of higher order are entering into the system due to the compensation at Jeypore PG. It was suggested that OHPC may place the matter in the next OCC meeting of ERPC.

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

(D) Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of March'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. OPTCL officers have been deputed for inspection.

[Action: CGM (O&M)]

(E) DISCOM Drawal during the month of March'17

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

Deliberation in the meeting:

It was noticed that WESCO had overdrawn **20.154** MU, while CESU had overdrawn **06.551** MU and SOUTHCO had overdrawn 2.941 MU. NESCO Utility had under drawn during the month.

[Action: All Distribution Utilities / SLDC]

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

Energy generation and exchange during the month of March'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 **2360.94** MU.

Deliberations in the meeting

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

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

The drawal of Machhakund power during the month of March'17 was **33.507** MU, against AP drawal of **32.381** MU.

In the 107th PSOC meeting, CGM (Telecom) stated that dispatch of RVDU is delayed due to pending software clearance from custom department. RVDU is expected to be commissioned by end of April'17. CGM (O&M) stated that the traction bay at Machhakund PH switchyard and associated line need to be equipped for evacuation of power from the proposed 2 X 10 MW Lower Machhakund small hydro station, which is likely to come up within 4 years.

Replacement of Multi Functional Meter (MFM) at Machhakund Power House

The unit wise generation data in respect of #1, #2 & #6 of Machhakund PH are not available on the VPS in the SLDC control Room. This requires replacement of MFM at Machhakund PH. To carry-out the replacement work, shutdown on the above said units is required for half an hour each.

Unit Head of Kolab PH may take up the matter with Machhakund Authority regarding issue of shutdown.

Deliberations in the meeting:

For the third consecutive month, Odisha drawal has exceeded AP drawal due to continuous effort by SLDC as well as Jaynagar S/S. CGM (Telecom) stated that the RVDU is expected to be commissioned by 15th May'17. SGM (O&M)-I stated that if the traction bay at Machhakund PH Switchyard will be equipped and kept idle, the elements are likely to be utilized by Machhakund authority at some other places as replacement when required. As such the bay should be equipped just before commissioning of the proposed 2 X 10 MW Lower Machhakund small hydro station.

It was decided that Unit Head of Kolab PH shall take up the matter with Machhakund Authority regarding issue of shutdown

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

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

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

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

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

Deliberations in the meeting

Total 1638 No.s of Short Term / Medium term and Collective transaction applications have been processed by SLDC for according Consent / NoC during the FY 2016-17.

PART C – Issues discussed in the 132nd OCC meeting of ERPC on 21.04.2017

C.1: Status of projects funded under PSDF schemes

In the PSDF review meeting held on 29.04.16 at New 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 129 th 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.	<i>Total contract awarded for Rs. 67.73 Cr Erection work for received equipment is in progress.</i>

ERPC advised to submit monthly updated report to RPC secretariat.

In the 131st OCC meeting, ERPC advised to furnish the information in the prescribed format (Annexure-B.3 (ii) 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.

Deliberations in the meeting

O&M stated that the information is being sent regularly to ERPC in the prescribed format.

[Action: CGM (O&M)]

C.2: 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. Meremundali (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 130th OCC, ERLDC presented the study results and informed the following:

- The voltage at Meramundali is increasing during winter season due low demand at Meramundali, Dubri and Mendhasal and insufficient reactive power support.
- In the present scenario the 765/400 kV Angul S/s is acting like sink of Reactive power for OPTCL system in around 400kV Meramundali S/s.
- With opening 400kV Angul-Meramundali line the export of reactive power to the ISTS network is reduced drastically but the voltage at 400kV Meramundali S/s is increasing by 4 kV which may affect the sub-station equipment.
- Further due to outage of one ckt of 400 kV Meramundali- Mendhasal the voltage at Meramundali is on higher side. This line may be restored at the earliest.

In 35th TCC, ERLDC informed that VAR is being generated at OPTCL system and the 765/400 kV Angul S/s is acting like sink of Reactive power for OPTCL system in around 400kV Meramundali

S/s. The opening of 400kV Angul-Meramundali line will not be the solution. Further due to outage of one ckt of 400 kV Meramundali- Mendhasal the voltage at Meramundali is on higher side. This line may be restored at the earliest.

OPTCL informed that 400 kV Meramundali- Mendhasal line will be charged on tomorrow and 315 MVA, 400/220kV ICT will be restored by 15th March, 2017.

Powergrid informed that the flexible LILO scheme as approved in 18th SCM was approved in their Board and it is in final stage and the scheme will be implemented by 2018.

TCC opined that the high voltage issue should be reviewed after restoration of 400 kV Meramundali- Mendhasal line and commissioning of 315 MVA, 400/220kV ICT at Meramundali in OCC meeting.

TCC advised all generators in around 400kV Meramundali S/s to absorb VAR up to maximum extent as per the capability curve. TCC also advised OPTCL to plan for proper reactive power compensation at 400kV Meramundali, New Dubri and Mendhasal S/s.

CE, CEA opined that reactive power compensation is part of grid security and it is eligible for PSDF grant. OPTCL may apply for PSDF.

In the 106th PSOC meeting, 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.

In the 107th PSOC meeting, GM (O&M) stated that, the issue was discussed in the meeting convened by CEA on 10.03.2017 at New Delhi. CEA advised to monitor the VAR absorption by the generators connected with Meramundali 400 kV Bus. OPTCL may plan for installation of additional reactor at Meramundali. Isolation of Meramundali-Angul (PG) ckts has very marginal impact on VAR injection. However, after replacement of the ICT at Meramundali by 15th April'2017, the impact of isolation of the above ckts will be monitored.

Deliberations in the meeting

It was decided in the PCC meeting of ERPC that, OPTCL may depute one officer to ERLDC for a joint system study to resolve the VAR generation and high Voltage problem at Meramundali S/S.

CGM (O&M) agreed to depute Sri A.Banerjea to ERLDC for joint system study.

[Action: CGM (O&M)]

C.3: Operational Load Flow Study for Off-Peak Period (Winter Lean Period)

In 128th OCC for lean off-peak load flow study, OCC finalized the date and time as follows

- 13.00 Hrs of 28th December, 2016.
- 02:00 Hrs of 29th December, 2016

In 130th OCC, PRDC informed that they will submit the report by end of March, 2017.

The report is available at ERPC website (www.erpc.gov.in)

Further OCC advised PRDC to carry out another load flow study in the first week of May, 2017 tentatively for 4th and 5th May, 2017 for 19:00 and 20:00 Hrs. Therefore, all utilities have to record data for four instances.

Deliberations in the meeting

CGM, SLDC stated that OCC decided to collect said data for 25th and 26th May'2017 in addition to the dates mentioned, as backup. SLDC shall write a letter to O&M in this regard. CGM (O&M) was requested to issue instructions to all field engineers for collection and forwarding the data to his office.

[Action: CGM (O&M)]

C.4: Restoration of PLCC system of important lines

In 130th OCC meeting, OPTCL informed that PLCC panels at 220kV Joda end will be commissioned within a week. JUSNL informed that the Ramchandrapur end is ready in all respect for implementation of PLCC.

In 35th TCC, OPTCL informed that PLCC panels at 220kV Joda end will be commissioned by March 2017.

In 131st OCC, WBPDCCL informed that shutdown was proposed on 31st March, 2017 to complete the work. OPTCL informed that PLCC panels will be commissioned by March 2017.

In the 107th PSOC meeting CGM (Telecom) stated that PLCC at Joda end will be commissioned on 27th March'2017.

Deliberations in the meeting

CGM (Telecom) stated that local test of PLCC was done. Since the line was under shutdown, remote test could not be taken up. After revival of the line towards 2nd week of May'2017, remote test will be done.

[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 130th OCC of ERPC, SLDC deliberated the completion schedule of inter-connecting system as follows:

Sl.	Name of the transmission line	Completion schedule
1.	2 X 315MVA 400/220kV Bolangir S/s	
a.	LILO of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir S/S.	Construction of 220 kV Sadeipali-Kesinga portion has started. Expected by June'17
b.	LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S.	Charged on 04.05.16
2.	400/220 kV Keonjhar S/S.	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	Line is expected by June'2017
b.	Keonjhar (PG)-Turumunga (OPTCL) 220 kV D/C Line.	By 2019
3.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C line	December 2017
b.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG). The scheme has been modified. Two ckts of Atri-Puri (Samangara) 220 kV line will be made LILO at Pandiabili.	May'2017

Deliberations in the meeting

SLDC stated that CGM (Const) may intimate SLDC regarding the modification of Pandiabili connectivity for onward intimation to ERPC.

[Action: CGM (Const)]

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 113th OCC, Member Secretary informed that during interaction with consultants of Grid Study Committee, NLDC agreed that they will plan for conducting workshops on crisis management plan for Cyber Security and few workshops will also be held in Eastern Region.

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

In the 107th PSOC meeting, CGM (IT) informed that “Crisis management plan” work is awarded to M/s Digital Age Strategies Pvt. Ltd. The said firm has completed the study of Servers and Firewalls at SLDC, Bhubaneswar and back-up SLDC at Meramundali. Presently the data centers of SLDC and GRIDCO are being audited for IT security vulnerability assessment.

SLDC is requested to nominate one officer for attending the Cyber Security training to be held at Bengaluru during 11th to 15th April’2017. Nominations from GRIDCO and OPTCL have since been received. Top management awareness-cum Seminar on the subject shall be organized subsequently.

Deliberations in the meeting

The Cyber Security training was held at Bengaluru during 11th to 15th April’2017. Regarding the proposed in house training to be held at Bangalore, members suggested to conduct the training at Bhubaneswar, so that all other officers can attend the same. IT requested to spare one room at SLDC building for **Security Operation Center**. SLDC stated that there is no spare room available at present.

[Action: CGM (IT)]

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

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

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

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

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

In the 107th PSOC meeting O&M stated that the proposal will be placed before PSC due to single bid.

Deliberations in the meeting

O&M stated that the bid has been cancelled. Negotiation with BIS is under process.

[Action: CGM (O&M)]

C.8. 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 129th OCC, OPTCL informed that the CB has reached at the site. The installation work will be completed by February, 2017.

In 131st OCC, OPTCL informed that the work will be completed by end of March, 2017.

In the 107th PSOC meeting, SGM (O&M)-I stated that breaker erection has already started from 22.03.2017.

Deliberations in the meeting

SGM (O&M)-I stated that installation of tie breaker has been completed. After receipt of clearance from Siemens, the same will be commissioned.

[Action: CGM (O&M)]

C.9: Replacement of old RTU in Eastern Region for reporting of RTU / SAS to back-up control centre

The matter for replacement of old RTU in Eastern Region for reporting to back up control centre has been discussed in a special project review meeting held on 14th February 2017 at ERPC & also on 35th TCC/ERPC meeting held on 24th / 25th February 2017, It was also mentioned that there would not be any service support for the old RTUs from POWERGRID after 15 years of operation period. It was accordingly advised to ERLDC to form a committee with POWERGRID as a nodal agency for assessment of such old RTUs vis-a-vis further action plan on replacement.

It was also advised to submit a report in the next TCC/ERPC meeting.

The matter for replacement of old RTU in Eastern Region for reporting to back up control centre has been discussed again in 19th SCADA O&M meeting held at ERLDC, Kolkata on 07th April 2017, wherein nomination of nodal person name from OPTCL, WBSETCL, DVC, BSPTCL, JUSNL, POWERGRID ERTS-1, POWERGRID ERTS-2, ERLDC, MPL & Jorethang has been collected.

Nomination from NTPC all stations including Nabinagar, NHPC all stations, Dikchu, Teesta-III, Chuzachen, JITPL, GMR, Ind Bharat & APNRL are yet to be provided. ERLDC has already issued letter ref no: ERLDC / SCADA O&M / 2017/ dated 11.04.2017 for the same. It is requested to provide the nomination from these stations.

Deliberations in the meeting

CGM (Telecom) stated that tender has already been floated for replacement of old RTUs. A meeting is scheduled to be held between OPTCL, POWERGRID and Chemtrol during 1st week of May'17 to decide integration charges.

[Action: CGM (Telecom) / 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.

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.

The DPR for ADMS has already been approved by BoD, OPTCL. SLDC shall submit the proposal for funding by PSDF for ADMS to O&M wing of OPTCL for further action.

Deliberations in the meeting

SLDC stated that filling of format for PSDF and floating of tender is under process. The DPR will be sent to ERPC. CGM (Telecom) stated that SLDC may contact the consultant of PSDF for filling the format.

[Action: SLDC / O&M]

C.11: Mock Black start exercises in Eastern Region

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

Sl.	Name of HEP	Test-I Completed on	Test-II Completed on
1	Balimela	29.11.16	25.03.2017
2	Upper Indravati	16.07.16	24.03.2017
3	Burla	28.07.16	-

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

Sl no	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	U.Kolab	Last week of May, 2017		Last Week of January2018	
3	Rengali	2ndweek of June 2017		Last week of November 2017	
4	U. Indarvati	3rdweek of June 2017		2ndweek of February2018	
6	Balimela	3rdweek of October 2017		1stweek of March 2018	
9	Burla	Last Week of June 2017		Last week of February2018	

Deliberations in the meeting

SLDC stated that Black start exercise for Burla is scheduled to be conducted during the month of May’2017. Further, the existing procedure for Burla HEP need to be modified due to shutdown of units at Burla and non-availability of bus splitting arrangement at Burla Switchyard.

[Action: OHPC / SLDC]

C.12: Pollution mapping for Eastern Region

Powergrid updated the latest status as follows:

	Scope (no. of locations)	Installed Locations	Number of locations where the results for 1st set of Measurements submitted	No. of locations where the results for 2nd set of Measurements submitted	Number of locations where the results for 3rd set of Measurements submitted	Number of locations where the results for 4 th set of Measurements submitted
OPTCL	164	102	100	90	79	1

Powergrid informed that most of scheduled measurements till fourth set has not been completed yet, it is requested to complete the measurements and submit the results at the earliest.

Powergrid added that they prepared an online format to submit the details of measurements.

Powergrid requested to fill the Google form (<https://goo.gl/6375HJ>) for onward submission of measurements for better analysis of results.

OCC advised all the constituents to complete the measurements as per the schedule.

Deliberations in the meeting

O&M stated that the updated report will be sent to ERPC.

[Action: O&M]

C.13: Tap Position Optimization at Jeypore

Current Tap position at Jeypore ICT is 14. From scatter plot of 400/220 kV Jeypore S/S for the month February it is seen that 80% of time it is remaining in 1st quadrant and 20 % of tme in 2nd quadrant. This means most of the time voltage at both 400 and 220 kV level remains above their nominal value and occasionally 400 kV side voltage going below nominal value. But, 220 kV side voltage is always remaining on the higher side. Also it is seen that although 80% of time scatter plot is staying in 1st quadrant but Max voltage is within 420 kV. So if we reduce the Tap position then it will help to reduce 220 kVvoltage and further increase 400 kV side voltage which is remaining below 400 kV for 20% of time and within 400 to 420 kV for 80 % of time. So even after tap change 400 kV side voltage will stay mostly within 420 kV and may occasionally cross 420 kV by a very small margin. We also have reactors at Jeypore and Indravati for controlling high voltage at 400 kV. It is proposed that Tap may set to 12 from 14.

131st OCC advised Powergrid to do the tap changing from 14 to 12.

Powergrid agreed to do the tap changing in off load condition.

Deliberations in the meeting

It is noticed that the Voltage profile at Jayanagar is not improving. SrG.M (O&M)-I may ascertain the tap position at Jeypore (PG)

[Action: Sr. G.M (O&M)-I]

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'17**:

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)	Deviation (%)
1	CESU	2	6.551	0.936
2	WESCO	1	20.154	3.515
3	NESCO	0	-15.317	3.192
4	SOUTHCO	2	2.941	0.989
	Total	5	14.329	

It is noticed that WESCO had overdrawn substantial quantum to the tune of **20.154** MU.

Deliberations in the meeting

It was noticed that WESCO had overdrawn **20.154 MU** while CESU and SOUTHCO Utility have over drawn **6.551 MU** and **2.586 MU** respectively. NESCO Utility had under drawn **15.317MU**. All Distribution Utilities were advised to predict their day ahead drawal accurately to avoid deviation.

[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	400/220kV, 315 MVA ICT-I at Meramundali	Burnt	April-2017
2	220 kV Meramundali-Bhanjanagar ckt-I	Conductor replacement	Charged on 12.04.17
3	220 /132 kV, 100 MVA, Auto-3 at Chandaka.	Breaker replacement	May'2017
4	220/132 kV, 100 MVA, Auto- 2 at Duburi	Oil leakage since 24 th October'2016	May'2017
5	132 kV Sunabeda-Damanjodi line	For conversion to DC	June'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. CVT already replaced. Data will be integrated after restoration of OPGW between New Duburi & Paradeep.
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 Ferrotech	PLCC established and inspection by Telecom Engineers completed. Database has already been prepared by OPTCL.
5	CONCAST	No kV/Hz. (Industry is under lock up)
6	VISA	CB & Status data are not available
7	Paradeep	Data not available at ERLDC (Transducers need replacement)

GCC has convened a meeting with all the CGP and EHT consumers on 21st February'2017 to discuss the communication issues. In the 106th PSOC, 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.

In the 107th PSOC meeting, GCC stated that the CGPs and EHT consumers have assured to establish communication system within a specified time limit. In case they fail to do so the matter will be placed before the OERC.

Deliberations in the meeting

CGM (Telecom) stated that shutdown for replacement of OPGW between Duburi and Paradeep is required. After OPGW replacement, data of IFFCO will be integrated. CGM (O&M) stated that shutdown will be allowed after commissioning of Duburi Auto.

GCC stated that, the minutes of the meeting have already been forwarded to OERC.

SLDC stated that the generation of GMR unit connected to the State network is not being received. It was decided that CGM (Telecom) will write to GMR for installation of a separate RTU for the said unit.

[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 19th December 2016.

In the 107th PSOC meeting, CGM (IT) informed that Generators web based scheduling work is completed except for generation of report covering “Final Generation Schedule” for which SLDC shall furnish the requisite format. / SLDC may deliberate. SLDC was requested for a report to ascertain the submission of schedule by the CGPs.

It was decided to take a backup of the past web scheduling submissions by the generators and preserve them off line.

It is proposed to Go-Live for Generators web based scheduling w.e.f 1st April’2017. SLDC may issue necessary order.

Due to non-availability of sorting function for Date & Name of CGP under Accept / Edit Generator DC, difficulty is being faced by SLDC to find out the data of a particular CGP for a particular date. Further, the link for final schedule preparation has not been updated in the Web Based Scheduling application. Further, it is suggested by SLDC to take suitable back up of all the old records i.e. the DCs sent by the CGPs previously and clean the application database up to 31st March 2017.

Deliberations in the meeting

IT stated that **final report** generation will be completed by April’2017. Searching and Sorting of data has been done. The status to indicate whether the CGP has done scheduling or not, will be completed. SLDC may go for parallel run of the program for the month of May and June’17. From 1st July’17 the software will be made operative. SLDC may write a letter in line with the above program.

[Action: CGM (IT) / SLDC]

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 1st March onwards the AMR shall be made “Go live”. Data will be available after one hour lapses of time.

In the 100th 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 104th 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 105th 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.

In the 107th PSOC meeting, CGM (IT) stated that AMI-UAT open points viz., (a) “Status Flag” for events and (b) Phaser Diagram issues are resolved by TCS. SLDC and GRIDCO were requested to spare their officers on 24th and 25th March’17 for a final testing and Sign-off. Further if any non-fatal cosmetic issues remain, the same shall be resolved by TCS during support service period. Accordingly, an undertaking shall be obtained by IT from TCS. Hence it is proposed to go for parallel run with effect from 1st April’2017 for a period of six months after testing the software by the UAT team, before going Live. Out of 125 Grid S/Ss, 101 S/Ss reported 100 % data during March 2017.

Deliberations in the meeting

IT stated that data for 39 Nos out of 41 Nos of CESU interface S/Ss have been completed. SLDC may prepare bill from 1st July with both from AMR and legacy meter data. If there is no difference between both the bills, the software will be made **Go Live**. It was further decided that AMR data will be taken on 1st day and manual data will be taken on 2nd day.

[Action: SLDC / CGM (IT)]

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 106th PSOC 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.

In the 107th PSOC meeting, SLDC stated that IT may take necessary steps for placing order for the DSM software.

Deliberations in the meeting

IT stated that TCS will forward their commercial offer by 1st week of May’17.

[Action: CGM (IT) / SLDC]

D.7.DISCOM Issues

CESU

There is a wide variation between actual drawal data and SCADA drawal data. The actual drawal of CESU excluding open access is 699.889 MU against 703.282 MU as per the SCADA data.

Such types of drawal pattern attract a lot of amount in deviation bill for CESU. CESU requested to take action for correctness of SCADA data.

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)]

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 nd DC line	Work has already been started. Expected to be completed by June' 2017.
2	Commissioning of 400 kV Meramundali-Mendhasal 2 nd ckt.	Line is ready and shall be charged after commissioning of 3 rd 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	Commissioned on 27.03.2017
5	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by May 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 already charged earlier and scheduled to be charged during FY 2016-17 has been placed in the meeting. The Discoms were requested to take necessary action for availing power supply through 33 kV feeders.

Sl. No	Name of S/S	Date of Charging	No of Bays	Name of bays	Remarks
1	Argul	06.05.14	4	1.IIT	
				2.IIT	
				3.NISER	
				4.NISER	
2	Barbil	02.08.14	5	1.Barbil	
				2.Bhadrasahi	
				3.Vacant	
				4.Vacant	
				5.Vacant	
3	Kuchinda	24.11.14	5	1.Kuchinda	
				2.Laikera	
				3.Laida(Proposed)	
				4.Jamankira(proposed)	
				5.Kusumi(proposed)	
4	Nuapada	27.12.14	5	1.Bishra	
				2.Kharia Road	
				3.Vacant	
				4.Vacant	
				5.Vacant	
5	Boud	28.01.15	5	1.Purnacuttack	
				2.Boud	
				3.Badhiapada	
				4.Chatrang(proposed)	
				5.Jampalaka(proposed)	
6	Sarasmal	13.03.15	4	1.Industrial	
				2.Kolabira	
				3.ODSSP(proposed)	
				4.Vacant	

7	Banki	26.03.15	4	1.Banki	
				2.Sunadei	
				3.Vacant	
				4.Vacant	
8	Dabugaon	10.04.15	4	1.Dabugaon	
				2.Papdahandi	
				3.Medina	
				4.Kosamguda	
9	Umerkote	10.04.15	4	1.Umerkote	
				2.Adhikariguda	
				3.Bhedda	
				4.Vacant	
10	Konark	29.06.15	4	1.Gop	
				2.Konark	
				3.ODSSP(proposed)	
				4.ODSSP(proposed)	
11	Lapanga	11.08.15	4	1.Vacant	
				2.Vacant	
				3.Vacant	
				4.Vacant	
12	Kalunga	07.09.15	5	1.IDC	
				2.Industrial	
				3.Kalunga	
				4.Mahaveer Ferro	
13	Marshaghai	16.10.15	5	1.Luna	
				2.Mahakalpada	
				3.Lift irrigation(proposed)	
				4.Vacant	
				5.Vacant	
14	Somnathpur	11.12.15	4	1.HIL	
				2.Vacant	
				3.Vacant	
				4.Vacant	
14	Atri	24.02.16	4	1.Vacant	
				2.Vacant	
				3.Vacant	
				4.Vacant	
15	Padampur	24.02.16	5	1.Padampur	
				2.Gaisilat(proposed)	
				3.Paikmal(proposed)	
				4.Melchamunda(prop)	
				5.Vacant	
16	Mania	31.03.16	5	1.Vacant	
				2.Vacant	
				3.Vacant	
				4.Vacant	
				5.Vacant	
17	Puri (Samangara)	30.05.16	5	1.Sriramnagar	
				2.Sriramnagar	

				3.Gabakunda	
				4.Vacant	
				5.Vacant	
18	Bangiriposi	03.10.16	4	1.Bangiriposi	Under progress
				2.Vacant	
				3.Vacant	
				4.Vacant	
19	Infocity-II	23.12.16	5		
20	Khajuriakata	28.03.17	5		33/11 kV S/S under Dindayal Scheme.
21	Chandaka-B	31.03.17	5		33/11 kV Chandaka S/S under ODSSP.
22	Malkangiri	28.03.17	5		Govindapali & Padia S/S const. in progress under ODSSP. (one feeder charged)
23	Bonei	15.04.17	5		
24	Bhogorai	29.03.17	5		

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

Discoms were advised to take necessary action for drawal of power from the S/Ss already charged.

[Action: All DISCOMS]

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 101st 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 106th PSOC 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 1st April'2017.

In the 107 PSOC meeting OHPC stated that there is wide variation in OHPC and OPTCL meter recordings. OPTCL meters need to be tested. CGM (PP) stated that all main meters may be tested in the first phase. After completion, the check meters may be tested.

Deliberations in the meeting

It was decided that for all OHPC stations the main meter reading shall be considered for billing purpose from 1st May'2017.

[Action: OPTCL/GRIDCO / OHPC]

E.3: Major Events in the month of March'17

- i) 10.04.2017: 40 MVA 132/33 kV Transformer commissioned at Jajpur Road replacing the existing 20 MVA transformer.
- ii) 21.03.2017: 4th 40MVA, 132/33kV Transformer commissioned at Khurdha sub-station.
- iii) 24.03.2017: 220kV Balimela (OPTCL) –Malkanagiri feeder charged.
- iv) 27.03.2017: 220/132kV, 1 X 160MVA Cuttack sub-station commissioned.
- v) 27.03.2017: 2nd 40MVA, 132/33kV Transformer commissioned at Jharsuguda Sub-station.
- vi) 28.03.2017: 220/33kV Malkanagiri sub-station commissioned.
- vii) 28.03.2017: 132/33kV Khajuriakota sub-station bus charged.(LILO of Meramundali Aarti)

- viii) 29.03.2017: 1X40MVA, 132/33kV Bhograi sub-station commissioned. Charged from Jaleswar end.
- ix) 30.03.2017: 132kV Pattamundai- Olaver ckt. charged.
- x) 31.03.2017: 220/132/33kV, 2X160MVA (auto transformer) / 2X40MVA, Chandaka-B GIS sub-station commissioned (LILO of Mendhasal-Chandaka ckt.-IV).

E.4: Important Grid Incidences during the month of March'17.

There was only one Grid incidents occurred during the month. O&M may analyze the incident for deliberation in the OCC meeting of ERPC.

CGM, SLDC stated that frequent tripping of 400kV Meramundali-Vedanta line is a matter of concern. Since, this creates substantial generation loss in the System, Vedanta Ltd. may take necessary action for clearing the trees from the root along the line before handing over to OPTCL.

[Action: CGM (O&M) / CGM (Const.) / Vedanta Ltd.]

E.5: Outage of major transmission Elements during the month of March'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 jumper snapping.

[Action: O&M]

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

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

Sl.	Station	Unit	Period	Remarks
1	Burla	# 2 # 5 # 6 # 7	22.07.16 to 07.05.17 25.10.16 to continue 16.10.15 to continue 21.02.17 to continue	Capital Maintenance Under R,M & U Under R, M & U GT problem
2	Chiplima	# 1 # 3	15.05.17 to 16.06.17 15.10.15 to continue	Annual Maintenance & bush replacement Under R,M & U
3	Balimela	# 1 # 7	05.08.16 to continue 16.04.17 to continue	Under R,M & U Generator Stator problem
4	Rengali	# 5	21.03.17 to 20.04.17	Annual Maintenance
5	Upper Kolab	# 3	18.04.17 to continue	Forced outage due to stator fault
6	Upper Indravati	# 3	15.05.17 to 15.06.17	Annual Maintenance
7	TTPS	# 2	13.04.17 to 27.04.17	Boiler overhaul

Deliberations in the meeting

SLDC stated that since U. Kolab unit 3 is not in service, shutdown of U.Indravati #3 may be differed.

[Action: OHPC / SLDC]

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

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

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.04.16	Reservoir Level as on 01.04.17	MDDL	High Flood Reservoir Level
	May'17 (1 st fortnight)	May'17 (2 nd fortnight)				
HPS-I, Burla	40	40	615.32ft	617.45 ft	590 ft.	630 ft.
HPS-II, Chipilima	20	20	-	-	-	-
Balimela	250	250	1479.90 ft	1485.90 ft	1440 ft.	1516 ft.
Rengali	100	100	116.10 mt	121.04 mt	109.72m	123.5 mtr.
U.Kolab	110	110	851.64 mt	853.32 mt	844 mtr	858 mtr.
U. Indravati	250	250	632.98 mt	635.00 mt	625mtr	642 mtr
MKD (O/D)	40	40	2730.10 ft	2722.90 ft	2685 ft.	2750 ft.
TOTAL	810	810				

E.8: Formation of Working Group (Hydro Generation).

In the 18th meeting of Forum of Load Despatchers (FOLD) held on 21st November 2016 at CBIP, New Delhi decision was taken regarding formation of Working Group on Hydro for studying the various aspects of Hydro stations.

The extract of the MOM is reproduced below:

"CEO, POSOCO suggested that a FOLD working group on hydro may be formed to study various aspects like utilizing available hydro stations as flexible resources, irrigation constraints etc. All members agreed on the suggestion to form a WG on hydro. The Terms of Reference for the Working Group would be

- To study the existing capability of hydro stations in States and Interstate level
- To study the existing tariff and operating norms for hydro stations
- To study the prevailing practices for scheduling and utilization of available capabilities of hydro stations and the existing constraints/issues withholding full utilization.
- To study the operating constraints in respect of inflows, hydrology, water releases, rate of reservoir depletion, machine capabilities etc.
- To explore the possibilities for utilizing available hydro stations as a flexible resource for primary response, secondary control (AGC), load following, peaking, pumped storage, reactive energy, Black-start etc.
- To explore the possibilities of integrated operation of tandem hydro stations or stations on same river basin
- To study the availability of existing communication facility between station and control centre
- To suggest possible mechanisms and regulatory interventions for optimizing / enhance utilisation of existing hydro capabilities without violating the identified constraints.
- Any other related matter"

All hydro power stations are requested to furnish the data in the prescribed format to SLDC.

Deliberations in the meeting

OHPC stated that they have forwarded the required information to ERPC.

[Action: OHPC]

E.9: Compliance of CEA Regulations for Grid Connectivity of Renewable Energy Sources.

As per CEA (Technical Standards for connectivity to Grid) Regulations, 2007, dated 21st February 2007, the pertinent clauses 6 (iii) & 6 (iv) (b) of general Connectivity Conditions shall be applicable to all the Generating Projects including the renewable, which are getting connected to the Grid at voltage level of 33kV & above. Subsequently, CEA have notified the CEA (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations 2013 dated 30.09.2013. These Regulations are applicable for "Distributed Generation Resources", which means a Generating Station feeding electricity into the System at voltage level below 33kV. Needless to mention that these Regulations also cover the renewable projects connected to the Distribution Licensee's System at voltage level of below 33kV. The letter received from CEA is annexed herewith.

All the Distribution / Transmission Licensee may please indicate the status in this regard and the action plan with definite time frame to ensure real time data telemetry from all the grid connected renewable Generators / Plants to SLDC.

Deliberations in the meeting

It was decided that SLDC shall convene a meeting between all Renewable projects, Telecom and SLDC to decide the strategy.

[Action: SLDC / Telecom]

E.10: Anticipated power generation and demand for the month of May'2017.

Sl. No	Discom	Average	Peak
1	CESU	1100	1300
2	WESCO	1000	1150
3	NESCO	800	1050
4	SOUTHCO	450	550
6	Total Discom	3350	4050
	System Loss	150	180
		3500	4230
Availability			
1	Hydro	810	1400
2	State Thermal	750	750
3	IPP, small hydro &RE	850	850
4	ISGS share (including OA)	1000	1000
5	CGP support (OA)	200	250
6	Total availability	3510	4250
7	Surplus / Deficit	110	20

PART F: OTHER ISSUES

F.1: Planned Shutdown proposal

SLDC stated that planned shutdown of transmission elements linked to Central Transmission System shall be decided in the ERPC meeting, provided the proposal will reach ERLDC by 5th day of the month. Hence, it is requested that all such proposal should be placed before SLDC prior to the above mentioned date. CGM (O&M) may instruct all the field units accordingly.

[Action: CGM (O&M)]

F.2: PMU Installation and commissioning status of ER

In the 132nd OCC meeting of ERPC, ERLDC stated that Balimela & Indravati PH are not extending DC supply for testing of PMU. OHPC was requested to look into the matter.

[Action: OHPC]

F.3: Date and Venue of the next (109th) PSOC meeting.

108th Power System Operational Co-ordination Committee Meeting
[At 11:00 A.M. on 24.04.2017]
[At PTC, Chandaka]

Sl. No.	Name	Designation	Organisation	Mobile No.	E-mail Address	Signature
1	Sri M.K. Das	Dt's (Eom)	BRIDCO			
2	Sri U.N. Mishra	CGM	SLDC	943890770	egm.10@gridco.in	
3	Sri B.P. Mishra	CGM(RTC)	OPTCL RTDC, OPTA	9438907019	ele.bpmishra@optcl.co.in	
4	Sri H.K. Samantnagar	CGM(TL)	OPTCL	9438907720	egm.tel@optcl.co.in	
5	Sri B.K. Sahoo	CGM(Ban)	OPTCL	9438907919	egm.000@optcl.co.in	
6	Sri P.S. Sahu	sr GM (ELP)	SLDC	9438907778	ele.pssahu@optcl.co.in	
7	Sri S.P. Panda	Unit Head VREPP	OHPC	7328840300	egmel_vkhp@ohpc.in	
8	Sri A.K. Behera	Manager(EL)	OHPC	7328840018	akshya_bhera@ohpc.in	
9	Sri B.P. Yadav	Dy. Mgr (EL)	OHPC	9437630787	-	
10	Sri D.N. Patra	Manager	OHPC	7328840020	dnpatra@ohpc@gmail.com	
11	Sri A.K. Das	Dy. Manager	OHPC	9861069446	dasakshay@ohpc.in	
12	S.K. Mishra	DGM (OS)	NTPC, B&SR	9438233207	SKmishra05@ntpc.co.in	
13	S. Mohanty	AM (EI)	Southern	9437959608	sanjeeb.mohanty@gmail.com	
14	D.P. Mishra	D.G.M (EI)	CESU	9861040284	dpm_eng@yahoo.co.in	
15	P. Ch. Muduli	A.G.M (EL)	NESCO	9438906019	Paneshmuduli@yahoo.com	
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