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CIN – U40102OR2004SGC007553

No-SGM (PS)-PL-15/2015 / 4524(43).

Dated: 16.12.2016

From:

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

To:

As per distribution list

Sub: Minutes of 103rd PSOC meeting held on 25.11.2016 at PTC, Chandaka, Bhubaneswar

Sir,

Please find enclosed herewith the minutes of 103rd Power System Operational Co-ordination meeting held on 25.11.2016 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 (Operation), OHPC, Bhubaneswar
2. The CGM (O&M), OPTCL, Bhubaneswar.
3. The CGM (Const.), OPTCL Bhubaneswar.
4. The CGM (RT&C), OPTCL, Bhubaneswar.
5. The CGM (PP), GRIDCO, Bhubaneswar.
6. The CGM (Telecom), OPTCL, Bhubaneswar.
7. The CGM (IT), OPTCL, Bhubaneswar.
8. The Sr. G.M (Const)-I, OPTCL, Bhubaneswar.
9. The Sr. G.M (Const)-II, OPTCL, Sambalpur.
10. The Sr. G.M (CPC), OPTCL, Bhubaneswar.
11. The Sr. G.M (CP), OPTCL, Bhubaneswar.
12. The Sr. G.M. (O&M), Zone-I, Narendrapur.
13. The Sr. G.M.(O&M), Zone-II, Meramundali.
14. The CEO, CESU, Bhubaneswar.
15. The A.O., WESCO Utility, Burla
16. The A.O., NESCO Utility, Balasore
17. The A.O., SOUTHCO Utility, Berhampur.
18. The Member Secretary (GCC), OPTCL.
19. The ED, Power Grid Corporation of India, Bhubaneswar.
20. The Sr. G.M. (El.), BHEP, Balimela
21. The A.G.M. (El.), CHEP, Chiplima
22. The Sr. G.M. (El.), UIHEP, Mukhiguda
23. The Sr. G.M. (El.), RHEP, Rengali
24. The D.G.M. (El.), HHEP, Burla
25. The D.G.M. (El.), UKHEP, Bariniput, Koraput
26. The S.E. (O&M), Machhakund
27. The DGM (Elect.), IbTPS, OPGC, Banharpali.
28. The Vice President (O), IMFA, Choudwar.
29. The D.G.M. (O&M), NTPC (TTPS), Talcher.
30. The AGM (Elect.), JINDAL Stainless Ltd., Duburi
31. The G.M, HINDALCO, Hirakud.
32. The G.M.CPP, NALCO, Angul.
33. The Director, M/s. Jindal Steel & Power Ltd., Angul
34. The AVP-Vedanta Ltd (IPP), Jharsuguda
35. The G.M, Vedanta Ltd (CGP), Jharsuguda.
36. The DGM (Power Distribution), RSP, Rourkela.
37. Joint President, Aditya Aluminium Ltd., Lapanga, Sambalpur
38. The G.M.(Elect.), Bhusan Steel Limited. Meramundali
39. The G.M. (Elect.), Bhusan Power & Steel Ltd, Budhipadar.
40. The G.M.(Elect.), IFFCO Limited.
41. Director & COO, GMR Kamalanga Energy Limited, Satyanagar, Bhubaneswar.
42. The CEO, Bhubaneswar Power Pvt. Ltd, IRC Village, Nayapalli, Bhubaneswar

Minutes of 103rd PSOC meeting held on 25.11.2016 at PTC, Chandaka, Bhubaneswar

List of participants is at Annexure.

Chief Load Despatcher, SLDC, OPTCL welcomed all the participants to the 103rd Power System Operational Coordination meeting and highlighted the system performance during the month of October'2016 and overall power scenario of the State. He also emphasized on the drawal 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 102nd PSOC meeting held on 27.10.2016

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2015/4214⁽⁴³⁾ dated 09.11.2016 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 102nd 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 October'2016.

(A) Frequency

It was noticed that, during the month of October'16, **71.27** % of times the frequency remained in the IEGC band i.e. 49.90Hz - 50.05Hz in comparison to **76.00** % during the month of September'16. The maximum and minimum System frequency during the month was **50.17 Hz & 49.83 Hz** respectively.

(B) Grid demand

Grid demand for the month of October'16 was reviewed. The average consumption during the month was **3026 MW**. The maximum System demand of **3995 MW** occurred on **04.10.16** at 21:00 Hrs and minimum demand of **2319 MW** occurred on **26.10.16** at 15:00 Hrs.

Deliberation in the meeting

It is observed that the average demand during the month of October' 16 has been decreased by 75 MW while the peak demand was increased by 59MW from that of September'16. The average energy consumption during the month has been decreased by 151 MW in comparison to October'15. 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 Oct'16.

The Voltage profile at different 220 kV buses in OPTCL system during the month of **October'16** was reviewed.

Deliberation in the meeting:

The maximum Voltage of **242.71** kV occurred at Jaynagar 220 kV bus while Narendrapur, 220 kV bus has experienced the minimum Voltage of **181.17** kV. Bus Voltages at Samgara and Lapanga could not be incorporated due to non availability of energy meter in those sub-stations. It is learnt that the CVT at Narendrapur is defective. O&M stated that action has been taken to rectify the CVT. It was decided that SLDC may deliberate the high Voltage problem at Jayanager in the OCC meeting for taking remedial measures by POWERGRID.

O&M stated that tender for procurement of Energy Audit meters has already been opened.

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

(D) Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of October'16.

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

Deliberation in the meeting:

It was deliberated that tender for procurement of Energy Audit meters has been opened.

[Action: CGM (O&M)]

(E) DISCOM Drawal during the month of October'16

The schedule and actual energy drawal by Discoms for the month of **October'16** was reviewed.

Deliberation in the meeting:

It was noticed that CESU had overdrawn 15.931MU while WESCO, NESCO and Southco had under drawn 4.855, 11.654 and 1.879 MU respectively.

[Action: All Distribution Utilities / SLDC]

(F) Energy Generation / import during the month of October'16

Energy generation and exchange during the month of October'16 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 **2251.67** MU.

(G) Drawal of Machhakund Power during the month of October'16

The drawal of Machhakund power during the month of October'16 was **31.269** MU against AP drawal of **33.822** MU.

In the 102nd PSOC meeting:

CGM (Telecom) stated that certain clarifications relating to payment has been sought for from M/s Chemtrol for supply of RVDU.

Deliberations in the meeting:

CGM (Telecom) stated that RVDU is expected to be commissioned by December'16. CGM (O&M) stated that Machhakund drawal was reduced due to shutdown of transmission elements during the month.

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

(H) Under Frequency relay operation in OPTCL System during the month of October'16.

There is no UF Relay operation occurred during the month of October'16 as the frequency had never gone beyond 48.50 Hz.

(I) Status of Open Access applications during the month of October'2016

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

PART C – Issues to be raised in the 127th OCC meeting of ERPC held on 29.11.2016

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 nd 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.	4.91 Cr.	Erection work of the already procured equipment is going on. LOA for eight different types of Testing equipment already placed worth about Rs.4 Cr. Placement of LOA for balance equipment is under process.

In the 102nd PSOC meeting O&M stated that Rs. 14.61 Crs is yet to be released. Further, order for Rs. 20.00 crore has been placed.

SLDC stated that OPTCL may include the cost of ADMS for PSDF funding. It was decided that SLDC shall prepare the DPR and submit to CGM (O&M) for inclusion in PSDF.

Deliberations in the meeting

O&M stated that Rs. 14.61 Crs has already been released. SLDC may forward the Detail Project Report (DPR) for implementation of ADMS in OPTCL network so that a proposal can be moved for funding through PSDF.

[Action: O&M / SLDC]

C.2: Preparation of Load Generation Balance Report (LGBR) of ER for 2017-18.

As per the IEGC under Clause 5.7.4 of Principal Regulations, first amendment in 2012 under sub-Regulation (a), (b), (c) and (d) states that

- “The RPC Secretariat shall be primarily responsible for finalization of the Annual Load Generation Balance Report (LGBR) and the annual outage plan for the following financial year by **31st December of each year**. The LGBR shall be prepared by the respective RPC Secretariat for Peak as well as Off-peak scenarios”.
- “Each SLDC shall submit LGBR for its control area, for Peak as well as Off-Peak scenario, by **31st October** for the next financial year, to respective RPC Secretariat”.

c) "RPC Secretariat shall then come out with draft LGBR and draft outage plan for the next financial year by **30th November** of each year for the regional grid taking"

d) "The outage plan shall be finalized in consultation with NLDC and RLDCs. The final LGBR after considering comments/observations of the stakeholders shall be prepared by RPC Secretariat by **31st December of each year**. The....."

XXXXXXXXXX

STU

Month wise annual planned outage of transmission systems (Transmission lines 220kV and above/ICTs/Reactors/other elements).

It is therefore requested to please send the above information (as applicable) on or before **31.10.2016** for compilation of data and preparation of **LGBR of ER for the year 2017-18**.

Information should be submitted in the form of soft copy through email (mail ID: **rpc.erpc@gov.in / mserpc-power@nic.in**).

In the last meeting SLDC stated that the LGBR for the State shall be submitted by 1st Week of November. O&M may explore preparation of Annual outage of transmission elements by 1st week of November'16.

Deliberations in the meeting.

SLDC stated that LGBR for the State has already been submitted to ERPC. Annual planned outage of transmission systems shall be submitted by the end of October'16.

[Action: SLDC / O&M]

C.3: Restoration of PLCC system of important lines

In 119th OCC, JUSNL informed that the following:

d) 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 Snaldih end) and OPTCL (for Joda end) to complete the PLCC schemes of both the above lines.

In 33rd ERPC Meeting, WBPDC and OPTCL agreed to settle the issue bilaterally with JUSNL. JUSNL was advised to resolve the AMC related issues with West Bengal & Odisha. All are requested to inform the development to CERC.

However ERPC advised JUSNL, OPTCL and WBPDC to get the PLCC system restored for both the lines by July 2016 positively.

Subsequently, a special meeting was convened by JUSNL on 11.07.2016 at Ranchi to resolve the issue at the earliest.

In 123rd OCC, OPTCL informed that they received the invoice from BPL and they are charging Rs. 1.8 lacs / year for AMC, which is not reasonable as the AMC charges for 5 years is more than the panel cost of Rs.5.1 lacs.

In 124th OCC, WBPDC informed that PLCC panels will be delivered by BPL in September'16.

OPTCL informed that they agreed to the BPL estimate and placing the order.

In 125th OCC, OPTCL informed that the order has been placed for PLCC panels without 5 years AMC.

In the last meeting CGM (Telecom) stated that M/s BPL had agreed for 50 % advance payment. Accordingly order was placed on 5th October. On 24th October, M/S BPL is asking for 100%

advance payment. CGM (O&M) may intimate the same to ERPC. This issue may also be raised in the TCC meeting of ERPC.

Deliberations in the meeting

CGM (Telecom) stated that PLCC shall be commissioned by December'2016.

[Action: CGM (Telecom)]

C.4: Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In the last meeting Gridco stated that a meeting for discussion of Vedanta metering logic will be convened on 1st November'16. CGM (O&M) stated that after joining the 400 kV Vedanta buses substantial quantum of power is flowing to the CTU system. 400 kV Vedanta-Meramundali ckts are under loaded resulting increase in Meramundali bus Voltage. Gridco may pay penalty for VAR injection at High Voltage. Vedanta generator should absorb reactive power as per their capability to avoid high Voltage.

In 34th TCC held on 18.11.16, Vedanta explained the status of construction with a presentation. Vedanta informed that significant progress has been made in last 5 months and the line will be commissioned by March, 2016. Vedanta requested to extend the removal of the LILO till March, 2017 as final commitment.

OPTCL added that since Vedanta has made substantial progress during last 5 months and the dead line for removal of the LILO may be extended till February, 2017.

TCC agreed and advised Vedanta to submit a fresh undertaking in affidavit form to CTU and ERPC stating that the dedicated line will be completed by 28.02.2017 with no further extension. Failing which, CTU/ERLDC is authorized to open the LILO with effect from 01.03.2017.

Deliberations in the meeting

M/s Vedanta stated that they are absorbing reactive power as per their capability.

[Action: Vedanta Ltd. / O&M]

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 127th OCC of ERPC, SLDC shall deliberate the completion schedule of inter-connecting system as follows:

Sl. No.	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.	Only 7 towers left (Severe ROW problem). By March, 2017.
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	By 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 (Work started)
b.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	February'2017

[Action: CGM (Const)]

C.6: Non-commissioning / non-functional status of bus-bar protection at important 220 kV Sub-stations

Bus Bar Protection not available (reccord as per third party protection audit)

Sl No	Name of Substation	Bus Bar protection status	Date of audit	Present Status
1	220 kV Mermandali	Not functional	30-Dec-12	<i>Commissioned in March-15</i>

Deliberations in the meeting

CGM (O&M) stated that bus bar protection at Meramundali has already been made functional.

C.7: 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.

CGM (IT) stated that finalization of appointment of consultant is placed before the PSC for approval. SLDC has to nominate a person for UAT.

Deliberations in the meeting

IT stated that contract will be awarded by a week time. SLDC has agreed to nominate a person for UAT.

[Action: SLDC]

C.8: 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 the 101th PSOC meeting CGM (O&M) stated that “Expression of Interest” for providing consultancy has been floated. In 102nd meeting CGM (O&M) stated that time will be extended since no response has been received.

Deliberations in the meeting

O&M stated that two Nos. of Firms have responded. Discussion with the participants is in progress.

[Action: CGM (O&M)]

C.9: Reporting of Energy generated from renewable resources on daily basis

Government of India has set an ambitious target to achieve 175 GW of renewable generation by year 2022. Renewable energy sources (RES) development division of CEA along with MNRE is continuously monitoring the progress in installation of renewable resources and also collecting actual generation data on monthly basis. However the energy injected from the renewable generating plants into the grid also needs to be monitored on daily basis and incorporated in the reports by NLDC, to determine the correct percentage of energy mix for whole country on any

particular day. Thus the renewable generators/ concerned SLDC may furnish following data on daily basis:

a) Grid connected RES, whose scheduling and metering is done as regional entity:
Maximum / Time and energy injected (MWh) for the previous day (from the SEM meters on a daily basis till the AMR is commissioned/working)

b) Grid connected RES which is under State purview:

Maximum/Time and energy injected (MWh) for the previous day. Concerned SLDCs to compile station wise / connection point wise energy injected into the state grid and send it RLDC on a daily basis.

The above data may be sent by mail to erldc.cal@gmail.com positively by 01:00hrs of the day in respect of data for the previous day. This is essential as the power supply report has to be sent by early morning hours for the previous day.

It was deliberated that SLDC shall provide the data in respect of the RES connected to grid with dedicated feeder.

In the 102nd meeting it was decided that SLDC and Gridco shall write to all RE generators to furnish their hourly energy injection data to SLDC by 20:00 hrs through email. SLDC shall forward the same to ERLDC by 01:00 hrs of the next day.

Deliberations in the meeting

SLDC stated that the Renewable generation sources have been intimated. Reporting of hourly generation will be commenced from 1st December'2016.

[Action: SLDC]

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.

In the 102nd meeting it was decided that SLDC shall convene a meeting with all Distribution Utilities and OPTCL for finalization of identification of feeders and grouping. These feeders will be included in the ADMS.

Deliberations in the meeting

SLDC stated that Technical specification for tendering will be done by 15th December. O&M stated that SLDC may confirm whether separate RTUs are required or not in view of S/S automation scheme taken up by OPTCL.

[Action: SLDC/ O&M]

C.11: Tie bay of 125MVAR Bus reactor and 400kV Indravati-Indravati and Indravati(PG):

Under outage w.e.f. 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.

As per the minutes of special meeting convened by Member Secretary, ERPC for resolving O&M issues between OPTCL, OHPC and POWERGRID for lines, bays and equipment held on 17.06.2016, “400kV bays (2nos.) Odisha bays in POWERGRID 400kV Indravati sub-station – POWERGRID will carry out routine O&M for the bays.”

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

It was deliberated that OPTCL has taken action for installation of breaker & CT. The joint inspection of line is under progress.

In the 102nd meeting CGM (O&M) stated that the installation of tie breaker will be done by November’2016. The 400 kV Indravati-Indravati (PG) line has taken over by OPTCL. Minor maintenance of the bay and associated equipments will be done by the respective Grid owner. However, the cost will be borne by the equipment owner.

Deliberations in the meeting

CGM (O&M) stated that 400 kV Indravati (PH)-Indravati (PG) SC line has already been taken over by O&M. Tender has been floated for transportation of materials.

[Action: CGM (O&M)]

C.12: Mock Black start exercises in Eastern Region

Mock black start exercise in respect of Balimela PH was conducted on 23.11.2016. It is observed that all the utilities may try to minimize the operational time.

Deliberations in the meeting

SLDC stated that OHPC is taking a considerable time for starting and synchronizing the unit during Black start exercise. Similarly S/Ss are taking time for switching operations, which may not serve the very purpose of it. All the OHPC stations and Grid S/Ss involved in the activities, may be advised to minimize the operational time during mock black start exercise.

[Action: OHPC & O&M]

PART-D – Operational Issues

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

Non compliance of drawal schedule messages issued to Discoms during the month of **October’16** was reviewed.

Deliberations in the meeting

It was noticed that CESU had overdrawn 15.931 MU while WESCO, NESCO and SOUTHCO were under drawn 4.855, 11.654 and 1.879 MU respectively. All Distribution Utilities were advised to predict their day ahead drawal accurately to avoid overdraw.

[Action: SLDC / 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	December 2016

[Action: 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 102nd meeting it was deliberated that CGM (Const) has made a circular to intimate all shutdowns to Telecom wing. CGM (RT&C) has intimated OERC regarding non compliance of data communication facility to SLDC by CGPs. 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.

Deliberations in the meeting

SLDC stated that RT&C wing may approach again to OERC if required through an affidavit.

[Action: C.G.M. (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.

In the 102nd PSOC meeting SLDC stated that all the generators have been intimated. Response from GMR and IMFA has been received. IT may make provision for taking a draft print out of the schedule submitted by the users. SLDC shall finalize a date towards 2nd week of November'16 for making a presentation to all generators.

Deliberations in the meeting

SLDC stated that IT wing may present a demo before SLDC after which the date will be finalized. IT agreed to make a demo on 29th November 2016.

[Action: C.G.M. (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 102nd PSOC meeting, DGM (IT) stated that, meter data for 54 nos of S/Ss have been sent to SLDC. SLDC stated that due to server problem the testing has been delayed. However, the server problem has been resolved. O&M shall intimate the replacement of meters to IT wing.

Deliberations in the meeting

DGM (IT) stated that data for 75 nos. of grid sub-stations shall be completed by the first week of December 2016. The feedback of SLDC shall be discussed in a joint meeting.

[Action: C.G.M. (IT) / SLDC]

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 102nd 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.

Deliberations in the 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.

[Action: C.G.M. (IT) / SLDC]

D.7: Energy generation and outage of units.

SLDC is preparing the monthly generation report for submission to CEA and ERPC. It is noticed that the monthly unit wise generation / Auxiliary consumption data in respect of State hydro, Thermal and IPPs connected to State network are not being forwarded to SLDC by the respective generating stations. A lot of time is being consumed in persuading to the generating stations for sending the generation data of last month. All the Generators are requested to forward their generation data along with a consolidated report of unit outage for last month by 3rd day of the month. The schedule date of submission of the generation report to CEA is 8th day of the month.

Deliberations in the meeting

All the Generators have agreed to furnish the data within the stipulated time through the new mail id.

[Action: All Generators]

D.8: DISCOM Issues

CESU

- (i) The actual drawal for the month of October-16 was 699.9848 MU where as the SCADA drawal data received from SLDC was 694.160 MU. There is a difference of 5.8244 MU. SLDC may take necessary action for accurate display of drawal data through SCADA. For example actual drawal of CESU on 21.10.2016 at 18:00 Hrs was 1189 MW and displayed data was 1031.93 MW. Also on 22.10.2016 at 03:45 Hrs, the actual drawal data was 828.48 MW against displayed data 990.20 MW.
- (ii) Suspected data at Meramundali, Bidanasi, Paradeep ATs & Balugaon- Chatrapur line.

Deliberations in the meeting

SLDC stated that the difference in actual & SCADA display is 5.82 MU only i.e. 0.83%. CESU may develop its own mechanism for accurate demand prediction. The data suspect in SCADA system for some of the sub-stations may be due to outage of RTU which is occurring for a few blocks in the month. However, the executives of CESU deployed at SLDC may be advised to bring this to the notice of Telecom. Engineers in the Shift.

[Action: CESU / SLDC / Telecom]

NESCO

- (i) Total drawl of Auto and feeders from Sl. No. 01 to 26, displayed on RVDU is no match with total drawl of NESCO Utility.
- (ii) Provision of storing of drawl data for NESCO Utility on real time basis.
- (iii) Sum of OA schedule given by SLDC on daily basis of a month is no match with final OA schedule given by SLDC of that particular month at the month end.

Deliberations in the meeting

SLDC stated that the mismatch of data has already been explained in the deliberation of CESU. The dispute relating to mismatch of OA schedule should be brought to the notice of Shift Charge Engineer of SLDC.

[Action: NESCO / SLDC / Telecom]

PART E: OPERATIONAL PLANNING

E.1: Commissioning status of New Transmission elements.

The status of commissioning of new transmission elements 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 2nd 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 March'2017.
3	Commissioning of 220 kV Bidanasi-Cuttack line	Work in progress and expected to be completed by December' 2016.
4	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by December' 2016.
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.

132/33kV Grids charged during 2014-15

Sl. No.	Name of Grid	Date of Charging	Provision for no of bays	Feeder Status
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. Khariar Road 3. Vacant 4. Vacant 5. Vacant
5	Boud	28.01.15	5	1. Prunacuttack 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	5. Banki 6. Sunadei 7. Vacant 8. Vacant
132/33kV Grids charged during 2015-16				
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. Beheda 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
15	Atri	24.02.16	4	1. Vacant 2. Vacant 3. Vacant 4. Vacant
16	Padampur	24.02.16	5	1. Padampur 2. Gaisilat(proposed) 3. Paikmal(proposed) 4. Melchamunda(proposed) 5. Vacant
17	Mania	31.03.16	5	1. Vacant 2. Vacant 3. Vacant 4. Vacant 5. Vacant

132/33kV Grids charged during 2016-17 (till 01.11.16)				
18	Puri(Samangara)	30.05.16	5	1. Sriramnagar
				2. Sriramnagar
				3. Gabakunda
				4. Vacant
				5. Vacant
19	Bangiriposi	03.10.16	4	1. Bangiriposi
				2. Vacant
				3. Vacant
				4. Vacant
132/33kV Grids expected to be charged from Nov 16 to March 17)				
20	Infocity-II	16-Nov	5	
21	Khajuriakata	16-Dec	5	
22	Chandaka B	16-Dec	5	
23	Malkangiri	16-Dec	5	
24	Olavar	17-Jan	5	
25	Potangi	17-Feb	5	
26	Podagada	17-Mar	5	
27	Bonai	16-Nov	5	
28	Kashipur	17-Mar	5	
29	Bhograi	17-Mar	5	
30	R. Udayagiri	17-Mar	5	
31	Tushura	17-Mar	5	

Distribution Utilities have to provide their action plan take-off arrangement.

Deliberations in the meeting

CGM (O&M) stated that 132kV Baripada-Baripada (PG) 2nd circuit is required to cater the load growth of Baripada command area. Spare bay is available at Baripada PG. CGM (Const.) may explore for construction of the 2nd circuit.

He also stated that the required protection standards may be adopted at New Duburi sub-station if not already done. Independent approach to Argul sub-station may also be explored.

AO, WESCO stated that they have estimated the cost involved in the take off arrangement & sent to Government for funding after due approval of District Committee. Take off arrangement for Lapanga shall be done only after ESCROW relaxation. Gisilate feeder shall be taken up from their own funding. Other Discoms may follow the similar procedure.

[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 102nd PSOC meeting, OHPC stated that defective meter at Rengali –TTPS feeder has been replaced. OHPC has requested M/s Alstom to check the PT of ICT-II at Indravati.

Deliberations in the meeting

Sr. G.M., UIHEP stated that PT problem at Indravati will be resolved by January 2017. OHPC also stated that TTPS feeder meter at Rengali PH has again showing error. OHPC may intimate OPTCL for rectification through the supplier.

[Action: OHPC / OPTCL]

E.3: Major Events in the month of October'16

132kV Burla Chiplima Tie-2 made LILO at Katapali sub-station on 22.10.2016.

E.4: Important Grid Incidences during the month of October'16.

Deliberations in the meeting

The grid incidences for the month of October were reviewed. Most of the incidents occurred due to jumper snapping. It was noticed that 220kV feeders of Meramundali grid sub-station tripped due to PT fuse failure. O&M may examine for review of the protection scheme.

[Action: CGM (O&M)]

E.5: Outage of major transmission Elements during the month of October'16. (above 10 hrs).

Deliberations in the meeting

The outages of major transmission elements during October were reviewed.

E.6: High Voltage problem at BPPL 132kV bus (agenda by BPPL)

- 1) It has been noticed that maximum system voltage in Aarati-Chowduar circuit(LILO at TS ALLOYS switching station) remain 143 kV, when Grid Demand is less (during 22:00 hrs to 06:00 hrs), sometimes it increases more which is leading to tripping of unit-2 of BPPL causing a lot of losses.
- 2) It has been observed since 14th Nov onwards, the Voltage profile of Aarati-Chowduar at LILO 132 kV bus, not remained within permissible limit during day hours too, since inter -connected 132kV Choudwar -Bidanasi circuit remains disconnected, hence SLDC is requested to ensure the above linked circuit always to be in connected condition.
- 3) LILO of Bidanasi-Chandaka circuit has not been synchronized with main bus of Chandaka S/S at Chandaka end (BPPL-Chandaka ckt), as a result, BPPL power station gets only one path (BPPL-Bidanasi) to evacuate and in case, above path gets disturbed, BPPL's Power Station remains in islanding position and is unable to evacuate power in spite of healthy condition of BPPL which leads to a lot of financial loss.

Deliberations in the meeting

O&M stated that over voltage might due to opening of 132kV Choudwar-Bidanasi ckt; which was subsequently closed. SLDC shall monitor the voltage profile and may instruct for tap changing to arrest the voltage.

[Action: SLDC]

E.7: Unbalanced power flow through 220kV New Duburi-JSL ckt-I & II due to tripping of bus-coupler breaker (Agenda by JSL, Duburi)

On 05.10.2016 (Time Block: 22:00 – 22:15) a LILO Power Flow has taken place in JSL Double Circuit Line which is connected parallel to OPTCL Duburi New 400 / 220 kV Grid, during tripping of BUS COUPLER Breaker at Duburi New Grid End as JSL Generators (2 Nos) connectivity were at different BUS by OPTCL Duburi New Grid and due to tripping of BUS COUPLER, there was an unbalance power flow as per the Energy Meter Readings. This needs to be checked and confirmed.

Deliberations in the meeting

Sr. G.M. (O&M –II) assured to instruct Duburi sub-station to isolate one of the JSL circuit in case of tripping of bus-coupler breaker under intimation to JSL.

[Action: Sr. G.M. (O&M –II)]

E.8: Review of Outage Program of State Generators / Transmission elements for the month of Dec'16:

Outage programme for State Generators for the month of **December'2016** was reviewed:

Sl.	Station	Unit	Period	Remarks
1	Burla	# 2 # 5 # 6	22.07.16 to 31.12.16 25.10.16 to continue 16.10.15 to continue	Capital Maintenance Under R,M & U Under R, M & U
2	Chiplima	# 3	15.10.15 to continue	TGB problem and started R,M & U
3	Balimela	# 1 # 7	31.01.13 to continue 05.12.16 to 31.12.16	Under R,M & U Annual Maintenance
4	Rengali	# 2	01.12.16 to 30.04.17	Dismantling of TG runner disc with collar
5	Upper Kolab	# 1 # 2	11.09.16 to continue 01.12.16 to 31.12.16	Stator inter turn fault Annual Maintenance
6	Upper Indravati	# 1	01.12.16 to 31.12.16	Annual Maintenance

E.9: Generation Program for the month of December'16.

Generation schedule for the month of December'16 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.11.15	Reservoir Level as on 01.11.16	MDDL	High Flood Reservoir Level
	Dec'16 (1 st fortnight)	Dec'16 (2 nd fortnight)				
HPS-I, Burla	25	25	627.10ft	630.06 ft	590 ft.	630 ft.
HPS-II, Chipilima	15	15	-	-	-	-
Balimela	150	150	1501.10 ft	1507.20 ft	1440 ft.	1516 ft.
Rengali	30	30	119.14 mt	123.00 mt	109.72m	123.5 mtr.
U.Kolab	30	30	856.00 mt	856.65 mt	844 mtr	858 mtr.
U. Indravati	50	50	635.22 mt	639.28 mt	625mtr	642 mtr
MKD (O/D)	40	40	2747.95 ft	2747.40 ft	2685 ft.	2750 ft.
TOTAL	340	340				

Deliberations in the meeting

Sr. G.M., UIHEP stated that although the water level is high, the generation is not being enhanced. SLDC may prepare generation planning for optimization of the hydro potential.

[Action: SLDC]

E.10: Anticipated power generation and demand for the month of December'2016.

Sl. No	Discom	Average	Peak
1	CESU	950	1150
2	WESCO	800	1050
3	NESCO	700	900
4	SOUTHCO	400	500
6	Total	2850	3600
Availability			
1	Hydro	340	1000
2	State Thermal	750	750
3	IPP, small hydro &RE	800	800
4	ISGS share (including OA)	850	1000
5	CGP support (OA)	150	150
6	Total availability	2890	3700
7	Surplus / Deficit	40	100

PART F: OTHER ISSUES

F.1: Shutdown of 132kV Chandaka-Mancheswar line

In response to the shutdown permission for 132kV Chandaka-Mancheswar line by G.M. (O&M), Bhubaneswar, CGM (O&M) stated that the shutdown programme may be deferred due to different events at Bhubaneswar.

[Action: SLDC]

F.2: Revision of schedule by M/s Vedanta Limited. (IPP)

Gridco stated that Vedanta Limited (IPP) is submitting their day-ahead generation schedule as 564MW, but repeatedly revising the schedule at 23:00Hrs. Gridco is planning its power trading at 12:00 Hrs for the next day considering Vedanta injection. Such revision by Vedanta leads to commercial implication on Gridco. Vedanta may submit the realistic schedule by 10:00 Hrs.

[Action: Vedanta Limited]

F.3: Date and Venue of the next (104th) PSOC meeting.

The date of 104th PSOC meeting will be intimated to all members.

F.4: The meeting ended with Vote of thanks by GM (GO), SLDC.

List of participants in the 103rd PSOC meeting dated 25.11.2016

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