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OFFICE OF THE CHIEF LOAD DESPATCHER, SLDC
ODISHA POWER TRANSMISSION CORPORATION LIMITED
GRIDCO Colony, P.O.-Mancheswar Rly. Colony, Bhubaneswar-751017, FAX-0674- 2748509
CIN – U40102OR2004SGC007553

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

4172⁽⁴⁸⁾

Dated: 27.12.2019

From:

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

To:

As per distribution list

Sub: Minutes of 140th PSOC meeting held on 24.12.2019 at PTC, Chandaka, Bhubaneswar.

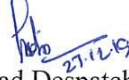
Sir,

Please find enclosed herewith the minutes of 140th Power System Operational Co-ordination meeting held on 24.12.2019 at PTC, Chandaka, Bhubaneswar.

This is for your information & necessary action.

Encl: As above

Yours faithfully;


Chief Load Despatcher,
SLDC, OPTCL

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

Distribution list

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

Minutes of 140th PSOC meeting held on 24.12.2019 at PTC, Chandaka, BBSR

List of participants is at Annexure.

Chief Load Despatcher, SLDC, OPTCL welcomed all the participants to the 140th Power System Operational Coordination meeting and highlighted the system performance during the month of November'2019 and overall power scenario of the State. He also emphasized on the drawal by all the Discoms during the month.

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

The review proceeded as follows:

1: Confirmation of minutes of 139th PSOC meeting held on 22.11.2019

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2019/3790 ⁽⁴⁹⁾ dated 30.11.2019 to all the members and also uploaded in the SLDC website. No comment has been received from any of the members.

Deliberation in the meeting:

Since no comments have been received from the members, the minutes of 139th PSOC meeting was confirmed.

PART B: SYSTEM PERFORMANCE

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

(A) Frequency

It was noticed that, during the month of November'19, **67.77 %** of times the frequency remained in the IEGC band i.e. **49.90Hz - 50.05Hz** in comparison to **75.24 %** during the month of October'19. The maximum and minimum System frequency during the month was **50.18 Hz & 49.72 Hz** respectively.

Deliberations in the meeting

SLDC stated that the percentage of times of frequency in the IEGC band has been decreased. The frequency ("above 50.05 Hz") range has been increased from 21.79 % to 28.63 % in comparison with the previous month. The low frequency range 49.0-49.9 Hz has increased from 2.97 % to 3.60 %. The high frequency profile has been increased due to decrease in demand in the country during the month.

(B) Grid demand

Grid demand for the month of November'19 was reviewed. The average consumption during the month was **3008 MW**. The maximum System demand of **4086 MW** occurred on **02.11.19** at 19:00 Hrs and minimum demand of **2020 MW** occurred on **09.11.19** at 03:00 Hrs.

Deliberation in the meeting

It is observed that the average demand during the month of November' 19 was decreased by 378 MW while the peak demand decreased by 299 MW from the month of October'19. The peak demand in the same month of previous year was decreased by 436 MW due to reduction of Power import by Vedanta Ltd through Open Access transaction & adverse weather condition in the State. AO WESCO stated that the demand in the State has been decreased due to reduction of industrial demand.

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

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

Deliberations in the meeting

The maximum Voltage of **242.20** kV occurred at Duburi New 220 kV bus. Nayagarh 220 kV bus had experienced a minimum Voltage of **206.86 kV**. Voltage profile of all the all the S/Ss seems to be normal except a few transient deviations. Low Voltage at Nayagarh was due to transient deep of Voltage for few blocks in one day only, might be due to PT failure during the period.

GRIDCO stated that the State is paying penalty for VAr drawl/injection by the State control area. CGM (O&M) stated that SLDC may monitor the VAr injection and instruct the S/Ss to change the tap position of ICTs whenever required and generators to reduce Var injection. SLDC stated that after bypassing arrangement of Meramundali –Bolangir (PG) line at Angul (PG) the Var injection may be controlled.

[Action: SLDC]

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

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

Deliberations in the meeting

DGM (Const) suggested to incorporate the ICT loading at different 400 kV S/Ss in the agenda. SLDC assured to do so in the next meeting.

[Action: SLDC]

(E) DISCOM Drawal during the month of November'19

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

Deliberation in the meeting:

It is noticed that all DISCOMs except NESCO had underdrawn while NESCO had overdrawn during the month. **WESCO** has deviated **6.048%** followed by **SOUTHCO** 2.978% from the scheduled energy while **NESCO & CESU** have deviated **1.872 % & 0.402 %** respectively. DISCOMs may forecast their drawal in realistic approach to minimise deviation. Daily drawal profile of all DISCOMs is as indicated in the presentation.

All the DISCOMs were requested to submit their month ahead demand projection in a realistic manner so that, SLDC shall forward the Monthly LGBR to GRIDCO for power procurement / sale planning.

[Action: DISCOMs]

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

Energy generation and exchange during the month of November'19 was reviewed. The total quantum of energy drawn from all the generation sources including Central Sector Share and CGP/IPP support during the month was **2165.561 MU**.

Deliberations in the meeting

The quantum of energy transaction has decreased by **354 MU** in comparison with previous month.

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

The drawal of Machhakund power during the month of November'19 was **26.311 MU**, against AP drawal of **26.995 MU**. The cumulative drawal of the State during the FY-2019-20 (up to Sept'19) was less by 26.977 MU

In the 136th PSOC meeting Southco stated that Dasmantpur feeder in expected to be charged today i.e. on 21.08.2019.

Sr.GM (O&M), Zone –I suggested to explore the following link lines for providing adequate matching load in Machhakund system.

- i. Connecting Patangi S/S or Proposed Lamtaput S/S with Podagada S/S through 132 kV link.

- ii. Providing Sunabeda S/S area load in Machhakund system
- iii. Modification of Jayanagar S/S to accommodate Jayanagar load

In the 137th PSOC meeting, SOUTHCO stated that 33 kV Dasmantpur feeder did not stand after charging. Insulators are being changed by the contractor. Sr. GM (Const) stated that 132 kV Patangi-Podagada line is under construction and expected by March'2020. He also suggested to utilize 132 kV NALCO-Sunabeda line to feed Sunabeda area load from Machhakund system by bus splitting.

In the 139th PSOC meeting SOUTHCO stated that insulator changing of Dasmantpur feeder is under progress. It was suggested that GRIDCO may convene a meeting with PMU for early restoration of the feeder, so that, more matching load can be provided in Machhakund system. SLDC may write to PMU to ascertain the status of feeders at Podagada S/S.

Deliberations in the meeting.

SOUTHCO stated that about 10 Nos of span have left for insulator changing. CGM (O&M) suggested to connect 33kV Medical feeder may with Podagada S/S for increase load at Machhakund system. Patangi –Podagada 132 kV connectivity is expected by March'19, by which, more load can be kept in Machhakund system. Further Rly. is requesting to change the connectivity of Rayagada Traction feeder from Rayagada to Theruvali S/S. GRIDCO has agreed to convene a meeting with PMU to discuss the issue.

[Action: GRIDCO/SLDC/SOUTHCO]

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

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

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

SLDC has processed 151 numbers of Short Term / Medium term and Collective transaction applications have been processed by SLDC for according Approval / Consent / NoC during the month and disposed all.

PART C – Issues discussed in the 164th OCC meeting of ERPC on 23.12.2019

C.1: Review of implementation of PSDF approved projects of Eastern Region.

NLDC (POSOCO) being the Nodal Agency for PSDF schemes, is carrying out PSDF Secretariat function under directions of MoP. Recently NLDC is directed by MoP to disburse the PSDF sanctioned funds as early as possible as its non-utilization is being viewed seriously by MoP on various fora.

All the constituents are requested to furnish/update the status of their respective project in every OCC and also requested to submit requisition for disbursement to NLDC at the earliest by 1st February 2020, so that amount may be released by 31st March 2020.

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

Sl No	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	PSDF grant Approved (in Rs.)	Amount Drawn till date (in Rs.)	Status as updated in 129 th meeting
4	OPTCL	Renovation & Up-gradation of protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies.	11.05.15	31.03.20	162.5 Cr. Total expenditure may not exceed Rs. 68 Cr.	38.09 Cr. Received Rs. 8.00 Cr on 28.03.19	<i>Work almost completed.</i>

7		Implementation of OPGW based reliable communication at 132kV and above substations	15.11.2017		51.22 Cr	2.56 Cr received as 10 % DPR. Claimed for 20 %.	Order placed. Expected by Nov'19. Inspection under process.
13	OHPC	Renovation & up-gradation of protection & control system of 4 nos. OHPC sub-stations		U.Kolab-March 19 Balimela-Feb 2019 U.Indravati-Jan 19 Burla-Nov18 Chiplima Dec 2018	22.35 Cr.	2.674 Cr	Placed work order for Balimela. PO for other units amounting Rs. 12.79 Crs placed. Order under process.
Projects under process of approval:							
	OPTCL	Installation of 125 MVAR Bus Reactor along with construction of associated bay each at 400kV Grid S/S of Mendhasal, Meramundali & New Duburi for VAR control & stabilisation of system voltage	27-07-18		31.94 Cr Estd. Cost. Approved amount 30.26 Cr. Grant amount 27.23 Cr.	Rs.2.72 Cr received as 10% of DPR. Retendering under process.	Agreement sent to NLDC for signature. The L-1 bidding price higher than the estimated cost..Expected by end of Dec'19.
Projects recently submitted:							
	OPTCL	Implementation of Automatic Demand Management System (ADMS) in SLDC, Odisha	22-12-17 Date of submission		3.26 Cr Estt cost. 2.93 Cr recommended by Appraisal committee.		CERC approval received. Tendering under process.
	OPTCL	Protection up gradation and installation of SAS for seven numbers of 220/132/33kV Grid substations (Balasore, Bidanasi, Budhipadar, Katapalli, Narendrapur, New-Bolangir & Paradeep).	12.03.2018 Date of submission		41.1 Cr Estt cost	10% of DPR to be asked.	Project approved. Tender to be opened on 16 th Dec'19. Agreement will be sent to NLDC after signature by Govt.

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

C.2: Automatic Under Frequency Load Shedding (AUFLS) Scheme

In the 2nd meeting of NPC held on 16th July 2013, the following AUFLS scheme with 4 stages of frequency viz. 49.2 Hz, 49.0 Hz, 48.8 Hz & 48.6 Hz had been decided to implement in all the regions:

AUFLS	Frequency (Hz)	Load Relief in MW					
		NR	WR	SR	ER	NER	Total
Stage –I	49.4	2160	2060	2350	820	100	7490
Stage –II	49.2	2170	2070	2360	830	100	7530
Stage –III	49.0	2190	2080	2390	830	100	7590
Stage –IV	48.8	2200	2100	2400	840	100	7640
Total		8720	8310	9500	3320	400	30250

The scheme had been implemented throughout the country.

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In 9th NPC meeting held on 22.11.2019, it was decided to implement the AUFLS scheme with 4 stages and raising the frequency by 0.2 Hz viz. 49.4, 49.2, 49.0 & 48.8 Hz by keeping the quantum

for AUFLS same as decided in 2nd NPC Meeting. It was also decided that a committee with all RPCs and NLDC would study and review the required quantum for each slab of AUFLS and submit a report to NPC. Minutes of the meeting are awaited.

The total load quantum for ER constituents is given below:

Control Area	Stage –I (49.4 Hz) (MW)	Stage –II (49.2 Hz) (MW)	Stage–III (49.0Hz) (MW)	Stage–IV (48.8Hz) (MW)	Total Relief by Control Area
Bihar	98	99	99	101	397
Jharkhand	61	62	61	62	246
DVC	134	135.5	136	137	542.5
Odisha	181.5	183.5	184	186	735
WB & CESC	345.5	350	350	354	1399.5
Total	820	830	830	840	3320

In 42nd TCC, all the constituents were advised to implement the revised AUFLS scheme as per the NPC decision within a month and submit a report to ERPC Secretariat and ERLDC.

TCC decided to review the implementation status in the next OCC Meeting.

Deliberations in the meeting

O&M stated that action has already been initiated to revise the UFR setting and feeder configuration.

[Action: O&M]

C.3: Implementation of Automatic Generation Control in Eastern Region--ERLDC

In compliance to CERC's direction in order dated 06/12/2017 in petition no 79/RC/2017, AGC was commissioned in NTPC Barh on 01st August 2019 and operationalized since 23rd August, 2019.

Vide order dated 28th August 2019, CERC in Petition No.: 319/RC/2018 directed that all the ISGS stations whose tariff is determined or adopted by CERC shall be AGC-enabled and the ancillary services including secondary control through AGC be implemented as per the following direction:

I. All thermal ISGS stations with installed capacity of 200 MW and above and all hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC are directed to install equipment at the unit control rooms for transferring the required data for AGC as per the requirement to be notified by NLDC. NLDC shall notify the said requirements within one month of this order.

II. All such ISGS stations whose tariff is determined or adopted by CERC shall have communication from the nearest wide band node to the RTU in the unit control room.

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IX. All new thermal ISGS stations with installed capacity of 200 MW and above and hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC shall mandatorily have the capability to provide AGC support.

In the 162nd OCC, it was clarified that AGC signal for intra-state generating stations would be generated by the concerned SLDC and the relevant communication path is to be established between SLDC to plant. For ISGS stations, the AGC signal would be sent from NLDC.

All concerned plants may please ensure taking necessary action for arranging the communication (through redundant and alternate paths) from the existing nearest wideband communication node to their unit control rooms through two fibre optic cables, in coordination with CTU. It may please be

noted that all the ISGS stations whose tariff is determined by or adopted by CERC should be AGC-enabled before 28th February 2020, as per order of CERC.

OCC suggested that even though the total capacity is tied up with GRIDCO, depending the area control error during low/high frequency scenario, the generation can be increased / decreased up to 5% by sending AGC signal from SLDC. Member Secretary advised OPGC to submit their action plan within 7 days for implementation of AGC. Further OPGC may depute their officers to visit Barh NTPC station to study the mechanism they have adopted for AGC. SLDC may interact with NLDC in this regard.

Summary status of implementation of AGC

Unit#3 of OPGC	SLDC, Odisha and OPGC agreed to submit their plan by 1 st week of Nov19
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In 42nd TCC, DVC intimated that AGC shall be implemented in unit 7 and 8 of Mejia as per the given schedule by 31st July 2020.

Odisha informed that SLDC and OPGC will sit together and finalise the scheme.

WBPDCL informed that they have already collected offer from Siemens for implementation of AGC and they are awaiting the concurrence from SLDC.

SLDC, WB informed that they are not in a position to implement AGC unless a clear direction is given by WBERC. Further, implementation of intra state DSM is a prerequisite for implementation of AGC in the state.

It was decided to request CERC to include this as an issue in the Agenda for discussion in the meeting of Forum of Regulators.

Deliberations in the meeting

It was decided to convene the meeting by SLDC with OPGC & O&M after finalization of the commercial issue.

[Action: SLDC/ OPGC]

C.4: Implementation of Automatic Demand Management Scheme

The latest status along with proposed logic as follows:

Sl. No	State /Utility	Logic for ADMS operation	Implementation status/target	Proposed logic (if different from under implementation logic)
1	Odisha	1. System Frequency < 49.9 Hz 2. Odisha over-drawl > 150 MW 3. DISCOM over-drawl > (40 MW)	10 Months Sent for PSDF approval	Logic 2 and 3 is AND or OR, in case it is AND then ADMS may not operate when DISCOMs are in schedule but GRIDCO is over drawing due to less generation at State embedded generators.

In the 138th PSOC meeting SLDC stated that technical sanction has been done and forwarded to CPC for tendering.

In the 139th PSOC meeting SLDC stated that tendering is expected by December'2019.

Deliberations in the meeting

SLDC stated that the tender process is under scrutiny by CPC Finance. After completion of the process tendering will be done.

[Action: SLDC / CPC]

C.5: Auxiliary power consumption by Powergrid Substations--GRIDCO

As per decision of Special meeting on this issue held at ERPC on 10.07.2018, drawal of auxiliary power through tertiary winding by Powergrid substations shall be treated as drawal by Powergrid from the DISCOM (s). For this, Powergrid shall approach the concerned DISCOM(s) and shall complete all the necessary formalities to become a consumer of the concerned DISCOM.

Powergrid is not becoming the consumer of DISCOM Utility as a result of which, GRIDCO/DISCOM(s) are unable to realize the revenue from Powergrid, whereas GRIDCO is paying for the said quantum of energy consumed by Powergrid since October, 2017.

The above issue was deliberated in 163rd OCC meeting held at Puri, Odisha on 15.11.2019, wherein Powergrid informed that DISCOMS (WESCO & CESU) are asking POWERGRID to pay for the Security Deposit, Maximum Demand charges and Meter rent etc. Powergrid stressed that, as the entire infrastructure for auxiliary power consumption through tertiary was provided by POWERGRID only and not by the DISCOMs, these charges are not applicable in this case. Powergrid further informed that they are not paying such charges for other states. DISCOMs informed that they are requesting for the payment of Security Deposit, Maximum Demand charges and Meter rent etc. in line with the OERC Regulations.

DISCOMs informed that they would not have any objection in case OERC allows any exemption to Powergrid in this matter.

After detailed deliberation, OCC advised Powergrid to file a petition before OERC for exemption of Security Deposit, Maximum Demand charges and Meter rent etc.

WESCO vide letter dated 16/11.2019/ 12.12.2019 requested GRIDCO to withdraw the quantum of energy billed to DISCOM towards auxiliary power consumption of Powergrid through its tertiary winding of ICT till finalization of Petition to be filed by PGCIL before OERC.

In view of the above, GRIDCO suggest that DISCOMs need to raise the bill to Powergrid on the quantum of energy billed to DISCOMs by GRIDCO on monthly basis till finalization of the issue of Security deposit, Maximum demand charges & Meter rent. A copy of the bill should be marked to GRIDCO every month.

Deliberations in the meeting

GRIDCO stated that POWERGRID will file the Petition before the OERC by next OCC meeting
[Action: All DISCOMS/ POWERGRID]

C.6: Review of the PSS Tuning of Generators in Eastern Region --ERLDC

On 31st January 2019, PSS Tuning Meeting was held at ERPC. All generating utilities were advised to complete the PSS tuning of their plant at earliest for improvement of damping in the grid during transients. In addition, the tuning reports have also to be submitted to ERLDC/ERPC for their validation.

In line with this ERLDC has communicated to following utilities in view of the recent oscillation observed during various events:

Generating Power Plant	Remarks	Status of Action Plan to be informed to OCC
All Units of OPGC and OHPC,	PSS are tuned long back and in many units PSS have not been tuned but are in service.	OPGC Units-February;2010.
GMR	Was done in 2013 and retuning is required with change in the network at Angul.	During overhauling in Dec'2020
Sterlite 4 X 600 MW	Due to network changes.	Plan not yet submitted (Orissa SLDC)

In the 139th PSOC meeting, Vedanta assured to submit the plan before the next meeting.

Deliberations in the meeting

Vedanta Ltd stated that they have decided for PSS tuning of their units during the month of June 2020.

[Action: OHPC/ GMR / OPGC / Vedanta Ltd.]

C.7: 220 kV Inter-connecting lines of OPTCL with 400/220 kV Bolangir(PG), Keonjhar & Pandiabil S/s

PGCIL has already commissioned the 2 X 315MVA 400/220kV Bolangir S/s by LILOing of 400 kV Meramandali-Jeypore S/C line and 400/220 kV Keonjhar S/s with an objective of supplying power from ER grid to its adjoining areas in Odisha.

In 140th PSOC meeting the status has been updated 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 (PG) S/S.	Construction of 220 kV Sadeipali- Kesinga line has started. 220 kV Sadeipali-Bolangir (PG) portion of the line is expected by March'20.
2.	400/220 kV Keonjhar S/S.	
a.	Keonjhar (PG)-Keonjhar (220/33 kV) & 220 kV D/C line	220 kV S.C line and Keonjhar S/S (220/33 kV), 2x20 MVA charged on 31.12.2018. 2 nd ckt; charged on 03.08.2019.
b.	Keonjhar (PG)-Turumunga (220/132 kV) & 220 kV D/C Line.	By 2021. Order placed.
3.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C	June'2020

[Action: C.GM (Const.)]

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

LILO of Meramundali-Bolangir/Jeypore 400 kV S/C line and LILO of one Ckt of Talcher-Meramundali 400 kV D/C line has been done at Angul 765/400kV Sub-station. The bypass arrangement for these circuits is under implementation at Angul by Powergrid.

In 158th OCC, Powergrid informed that bypass arrangement would be completed by August 2019. OPTCL informed that 2nd circuit of 400 kV Meramundali-Mendhasal line would be commissioned by 1st week of August 2019.

OPTCL informed that 2nd circuit of 400kV Meramundali-Mendhasal line would be commissioned by end of August 2019.

As per POWERGRID email dated 16th September, the anticipated date for commissioning of the LILO by-pass arrangements at Angul SS is by end of Oct'2019.

OCC advised POWERGRID to take urgent steps for commissioning of the bypass arrangement. Delay in implementation of the arrangement is causing loss of operational flexibility besides subjecting the grid to the risk of high fault current.

In the 137th PSOC meeting, DGM (Const) stated that 3rd ICT at Mendhasal in under testing. O&M stated that tree clearance has already been completed. After commissioning of the ICT, 400 kV Mendhasal-Meramundali 2nd ckt will be charged.

Const. wing stated that a committee has been formed to examine the oil sample test result for charging of the 3rd ICT at Mendhasal. A decision shall be taken after receiving the views of the Committee.

O&M stated that 3rd ICT at Mendhasal is expected to be charged by end of December'19

In 139th PSOC meeting, O&M stated that 3rd ICT at Mendhasal is expected to be charged by end of December'19.

Deliberations in the meeting

DGM (Const.) stated that the filtration of 3rd ICT has already started. The ICT is expected to be charged by January'20. POWERGRID has changed the relay setting of 400 kV Meramundali-Bolangir line. He has suggested that, O&M may take action for tree cutting along the line.

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

C.9: Update on status of telemetry

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

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Issues relating OPTCL Network:

Narsingpur data:

In the 132nd PSOC meeting CGM (Telecom) stated that survey work for Meramundali-Bhanjanagar line is under process. OPGW will be reached at site after completion of survey and preparation of drum schedule.

In the 134th meeting CGM (Telecom) stated that delivery of OPGW has already been started.

In the 135th PSOC meeting DGM (Telecom) stated that replacement of earth wire by OPGW in 220 kV Bhanjanagar-Meramundali is expected by December'2019

NALCO data: DGM (Telecom) stated that the vender list and rate will be provided to NALCO for placement of order by them.

In the 137th PSOC meeting, NALCO stated that the estimate has already been received from OPTCL (Telecom). Approval from higher authority in under process.

In the 139th PSOC meeting, NALCO stated that they need protection scheme to be incorporated in the estimate. PSOC advised NALCO to write Telecom wing of OPTCL for revise estimate.

Deliberations in the meeting

DGM (Telecom) stated that protection scheme has already been incorporated in the estimate.

NALCO representative was not present in the meeting for deliberation.

[Action: Telecom / NALCO]

C.10: Mock Black start exercises in Eastern Region – ERLDC

Schedule and tentative date for conducting mock black start exercise in OHPC stations is as tabled.

Sl.	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	Upper Kolab	Last week of May-2019	Done on 19 th July19	Last week of January 2020	
3	Rengali	2nd week of June 2019	Done on June'19	Last week of November 2019	1 st week of January'20
4	U.Indravati	3rd week of June 2019	Done on June'19	2nd week of February 2020	
6	Balimela	3rd week of October 2019	Done on 17 th July19	1st week of March 2020	March'2019
9	Burla	Last week of June 2019	Done on 20 th July' 2019	Last week of February 2020	Feb'2019

[Action: SLDC / O&M/ OHPC]

C.11: Collection of modeling data from Renewable as well as conventional energy generators: ERLDC

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

well as from conventional power plants under their jurisdiction and submit the same to ERLDC/ERPC as early as possible.

In the 157th OCC advised all the SLDCs to submit the details to ERPC and ERLDC Format along with an explanation for collection of Wind and Solar Data had been shared by ERLDC with all SLDCs.

Bihar/ West Bengal and Orissa are having Solar Plant with more than 5 MW capacity. However, details have not yet been received in terms of modeling data.

In the 132nd PSOC meeting, all generators as well as RE sources were requested to furnish data to SLDC for onward transmission to ERPC.

In the 138th PSOC meeting, GRIDCO stated that they have received some of the Solar plant data, which will be forwarded to SLDC. SLDC requested GRIDCO to forward all the PPAs made with the Solar projects of the State.

SLDC has forwarded data for 5 Nos of Solar projects of the State namely: 1.Sadipali, Aftab, Jyoti, Dakhin Odisha and Vento Power at Kesinga to ERLDC. GRIDCO may explore for collection of the remaining plants data.

In the 139th PSOC meeting, GRIDCO stated that they have asked the remaining Solar projects to submit the information of their respective plant.

Deliberations in the meeting

AGM, GRIDCO stated that they have forwarded the data in respect of the remaining solar plants for dynamic modeling. SLDC may forward the same to ERPC. Further she stated that Green Energy Corridor-II is yet to be approved by MNRE, in which Odisha is included.

[Action: SLDC/ GRIDCO]

C.12: Monitoring of Next Six-Month New Element Integration in OCC and Its Update on Monthly Basis --ERLDC

It has been observed that many elements are getting interconnected into the system and beforehand details are not available with the system operator resulting in difficulty in carrying our operational planning activity. In view of this, as a regular agenda all ISTS and ISGS/IPP to update the OCC regarding any new elements at 220 kV and above which will be integrated in next six month with the grid. For State Grid, SLDC will be submitting the details on behalf of its intrastate Generation and transmission system. The format is given below:

Transmission Elements	Agency/ Owner	Scheme (ERSS/ TBCB/ Standing Committee/State	Schedule Completion	Projected Month for Completion	Issue Being Faced

In previous several OCC, Transmission licensees and SLDCs are requested to submit RLDC/RPC following details on monthly basis

- List of transmission element /generators of State and ISTS licensees synchronised in the last month.
- List of transmission element /generators expected to be synchronised during next month or in near future

Some SLDCs are submitting the list of intrastate and interstate line on regular basis, however transmission element /generators expected to be synchronised during next month or in near future is not submitted by any SLSC/Transmission licensee to RLDC/RPC.

In the 139th PSOC meeting, O&M wing assured to furnish the data in coordination with Const. wing of OPTCL.

Deliberations in the meeting

DGM (Const.) assured to forward the data to ERPC before the next OCC meeting.

[CGM (O&M) / C.G.M. (const.)]

C.13: Long term outage of transmission elements

400 kV main bay at Indravati (PG) is out of service since last 2 years for breaker problem at Indravati (PG). Line is charged through main bay of 125 MVA B/R breaker on bus-II. As decided in the meeting between POWERGRID and OPTCL, the breaker has to be replaced by OPTCL. OPTCL may expedite the work for operational flexibility.

In the 16th GCC meeting Sr. G.M (O&M) Zone – I stated that the breaker was transferred to the site. Removal of old breaker foundation is under progress. The delay was due to difficulty in breaking the foundation.

OPTCL stated in the OCC meeting that the breaker commission work is expected to be completed by end of November'19

Deliberations in the meeting

CGM (O&M) stated that, the breaker has already been installed. Commissioning could not be done due to defects noticed in 2 nos. of CTs. For this purpose 2 nos. of CTs have been diverted to Indravati PG. Commissioning of the breaker is expected by January'2020.

[Action: O&M]

C.14: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.

The activity of the preparation of Crisis Management Plan for countering the cyber-attacks and its implementation including the Mock Drills, audits etc. is being monitored by CEA regularly in line with crisis management plant of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

In 142nd OCC, ERLDC informed that, in line with Enquiry Committee Recommendation, cyber security audit is being conducted on regular basis for SCADA system installed at ERLDC and SLDC as well but cyber security audit for telecom infrastructure installed in Eastern Region is not being carried out.

OCC advised all the constituents to conduct the cyber security audit on telecom infrastructure installed in Eastern Region. It is further advised that compliance / mitigation of the points observed during the audit should also be completed for improvement of the telecom infrastructure in ER.

As suggested by CEA, a format has been circulated among ER constituents for furnishing the information of the respective systems for discussion in OCC Meeting. The format is enclosed at Annexure-E1.

OCC advised all the constituents to submit the information to ERPC as per Annexure-E1. OPTCL has submitted the required data

In the 139th PSOC meeting, IT stated that the Auditing is under process since 20th Nov'19 and will be completed today. The information has been submitted to ERPC in the prescribed format.

Deliberations in the meeting

SLDC stated that IT wing have forwarded the report in the prescribed format to ERPC for the Qr. ending Sept'2019.

[Action: Sr. G.M (IT)]

C.15: Submission of Thermal Loading of Transmission line and associated terminal equipment by ISTS licensee

Thermal Loading of Transmission line and associated terminal equipment is one of the most vital data which is utilized for Operation Purpose, calculation of ATC/TTC and various other studies. This information has to be submitted by the transmission utilities. However even after regular follow-up in past several OCC meetings, significant delay has been observed in submission. Status of submission of data up to first week of December 2019 is as follows:

Name of Utility	Whether End Equipment Rating Submitted or Not?
OPTCL	Submitted (Revised list given to OPTCL for submission)

Deliberations in the meeting

DGM (O&M) stated that they will examine and forward the information to ERPC.

[Action: CGM (O&M)]

PART-D – Operational Issues

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

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

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)	Deviation (%)
1	CESU	0	-2.394	0.402
2	WESCO	0	-34.169	6.048
3	NESCO	0	6.971	1.872
4	SOUTHCO	0	-7.818	2.978
	Total	0	-37.410	

It is noticed that all DISCOMs except NESCO were underdrawn while NESCO had overdrawn during the month. **WESCO** has deviated **6.048%** followed by SOUTHCO 2.978% from the scheduled energy while **NESCO & CESU** have deviated **1.872 % & 0.402 %** respectively. DISCOMs may forecast their drawal in realistic approach to minimise deviation. Daily drawal profile of all DISCOMs is as indicated in the presentation.

[Action: SLDC/ Discoms]

D.2: 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.

SLDC has already forwarded the Regulations & a letter received from DoE, Govt. of Odisha to the Distribution Licensees.

A meeting has been convened by Gridco in this regard with the RE generators, OPTCL, Telecom & SLDC. In the meeting, two nos of agencies presented their data acquisition logic from the RE sources. It was decided that each agency will take up a pilot project for data communication from one RE source to SLDC. On completion of the above project next course of application shall be decided.

A committee has been constituted with representatives of GRIDCO, O&M, Telecom & SLDC. This issue was also discussed in the 16th GCC meeting held on 09.08.2019. GRIDCO assured to make a demo of data communication from MGM Solar at Tangi to SLDC by end of August'19.

After successful demonstration of the data communication from the pilot Solar plant by Chemtrol, A meeting was convened by GRIDCO with all the Solar developers, Telecom, SLDC, OPTCL & DISCOMs to discuss the commercial issue.

Deliberations in the meeting

GRIDCO stated that the rate offered by M/s Chemtrol for integration of real time solar data is being examined by the developers. The next meeting is scheduled to be held on 27th December'19 to discuss and finalize the issue.

[Action: GRIDCO/ SLDC/SOLAR PLANTS]

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

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

In the 133rd PSOC meeting CGM (Telecom) stated that Vinto Solar data can be integrated only after laying of optical fiber, which has been proposed for PSDF funding

In the 137th PSOC meeting CGM (Telecom) stated that laying of optical fiber is expected to be completed by December'2019. DGM (Telecom) suggested that SLDC may write a letter to Vento Power (Solar) at Kesinga to explore the data communication, since all communication equipment are available with them. Data communication can be made through after visit of the service Engineer of the company.

In the 139th PSOC meeting Telecom stated that data communication from all the Solar stations connected through 132 kV is expected by January'2020.

Deliberations in the meeting

DGM (Telecom) stated that the Despatch Instruction for OPGW has already been issued. Laying of optical fiber is expected by June'20. As suggested by DGM (Telecom), SLDC may write a letter to Vento Power (Solar) at Kesinga to explore the data communication, since all communication equipment are available with them.

[Action: SLDC / Telecom]

D.4: Despatch Scheduling for RE Generation.

At present about 19 Nos of RE generating plants having 340 MW installed capacity operating in the State. None of the plants are furnishing day ahead schedule except 2-3 Nos. In absence of day ahead Declared injection Schedule, there is a substantial mismatch of day ahead generation planning. Also SLDC is not aware of the PPA made by GRIDCO with the Solar plants. As such, it is requested that GRIDCO may forward the copy PPA made with the Solar plants and insist the plants to submit day ahead DC in respect of their plants to SLDC in 15 minute blocks.

In the 139th PSOC meeting GRIDCO assured to forward the PPAs before next PSOC meeting also to write all the Solar stations to submit day ahead injection schedule to SLDC. The said documents are yet to be received by SLDC.

Deliberations in the meeting

SLDC stated that the PPAs made by GRIDCO with Solar plants have been received by SLDC. GRIDCO was requested to ask the Solar plants to forward their day-ahead generation schedule to SLDC. GRIDCO may intimate the name of contact persons with their phone No. to SLDC for interaction when required.

[Action: GRIDCO]

D.5: Information regarding RE Sources for RPO Compliance monitoring.

MNRE, Govt. of India has asked to provide information regarding source wise contracted capacity and power drawl from Solar/ Non Solar and large Hydro generators on monthly basis for RPO Compliance monitoring. GRIDCO has forwarded the information up to the month of September 2019, which was submitted to MNRE. It is requested that GRIDCO may furnish the information to SLDC by end of 1st week of each month, so that the same shall be submitted to MNRE by 10th day of each month. The letter of MNRE and format was enclosed as Annexure-1.

In the 139th PSOC meeting GRIDCO agreed to forward the information in the prescribed format to SLDC by 1st week of each month. The information for the month of October'19 & November'19 is yet to be received.

Deliberations in the meeting

GRIDCO stated that they are not receiving Machhakund data in time due to which, the information for RPO compliance could not be forwarded in time. SLDC stated that GRIDCO may submit the data excluding Machhakunda, which will be collected by SLDC.

[Action: GRIDCO / SLDC]

D.6: Implementation of Automatic Meter Reading for OPTCL-Discom interface points.

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

In the 138th PSOC meeting IT stated that software development is under progress and expected to be completed for CESU area energy meters.

In the 139th PSOC meeting IT stated that M/S TCS has assured to extract 90% of meter data from CESU & SOUTHCO interface meters.

Deliberations in the meeting

IT stated that the discrepancies have been intimated to M/s TCS. As per TCS report, they are not able to extract meter data on 1st day of the month due to removal of optical fiber link from the meter for data downloading.

TTPS (NTPC) requested to provide a port for them for checking the data. CGM (O&M) suggested that TTPS may write to GRIDCO in this regard. O&M & GRIDCO shall take a decision after discussion.

[Action: IT / SLDC/ O&M/GRIDCO]

D.7: Repair of OPGW, Ground wire and doubling of jumpers & summation meters for 220 kV RSP DC lines. – RSP Agenda

1. Repair of OPGW at Tower-33 &34 zone of 220 kV RSP-Tarkera DC line, which was defective on 2nd Sept'19 due to disturbance.
2. Restoration of fallen ground wire at diamond crossing with PGCIL line.
3. Doubling of all jumpers in 220 kV RSP-Tarkera ckt-1&2, damaged due to over loading.
4. Summation meters for all 4 Nos 220 kV RSP-Tarkera lines.

In the 139th PSOC meeting, Telecom/ O&M stated that the work will be taken up by next week after inspection. O&M shall make a thorough check of the line and take up the restoration work of the ground wire and examine for doubling the jumpers. Regarding providing summation meter, members stated that there is no such provision in the CEA Metering Code.

Deliberations in the meeting

Telecom stated that after getting shutdown of RSP-Tarkera ckt-I & II the work will be taken up. WESCO agreed to provide the summation meter and recover the cost from RSP.

[Action: Sr. G.M (Telecom)/ CGM (O&M)/RSP/ WESCO]

PART E: OPERATIONAL PLANNING

E.1: Commissioning status of new Transmission elements.

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

Sl. No	Transmission element details	Present Status
1	220 kV Jayanagar-Jeypore(PG) 2nd DC line	January'2020. Idle Charging from Jayanagar end will be done since bay at Jayapur PG is not ready.
2	400 kV Meramundali-Mendhasal 2nd ckt.	January'2020
3	132 kV Kesinga-Junagarh line	Charged on 03.12.2019
4	220 kV Pandiabili-Pratapsasan line	March'20
5	132 kV Pratapsasan-Phulnakhara line	February'20
6	220/132/33 kV, Pratapsasan S/S	March'20
7	220/33 kV, Deogarh S/S	March'20
8	132/33 kV, Maneswar S/S	March'20
9	132/33 kV, Boriguma S/S	Sept'20
10	220/33 kV, 2x20 MVA Baliguda S/S	Forest clearance awaited
11	220/33 kV, 2x20 MVA Kalimela S/S	Forest clearance awaited
12	220/132/33 kV, Goda Chhak S/S (320 MVA)	March'20
13	220/132 kV Kesinga S/S	Mar'20
14	132/33 kV R.Udyagiri S/S	Mar'20
16	220/33 kV Laxmipur S/S 2nd 20 MVA Tfr.	January'2020
18	132/33 kV, Mancheswar GIS	January'2020
19	132/33 kV, Satasankha S/S	February'20

The status of 33 kV bays and takeoff arrangement by DISCOMs are as tabled

SI No.	Name of Project	DISCOM	Voltage	Date of Charging	Bays Available	Bays utilised
1	Atri	CESU	220/132/33	2/24/2016	4	NIL
2	Chandaka - B	CESU	220/132/33	3/28/2017	4	NIL
3	Muniguda	Southco	132/33	11/29/2017	4	NIL
4	Baragarh New	Wesco	220/132/33	3/21/2018	1	NIL
5	Aska New	Southco	220/132/33	3/31/2019	5	NIL
6	Betanati	Nesco	132/33	4/19/2019	3	1
7	Kasipur	Southco	220/33	6/30/2019	2	NIL
8	Jayapatana	Southco	220/132/33	7/11/2019	4	NIL
9	Agarpada	Nesco	132/33	8/30/2019	5	NIL
10	Patangi	Southco	132/33	9/15/2019	4	NIL
11	Konark	CESU	132/33	6/29/2015	4	1
12	Mania	CESU	132/33	3/31/2016	5	1
13	Bangiriposi	Nesco	132/33	10/3/2016	4	1
14	Infocity-II	CESU	220/33	12/23/2016	4	1
15	Bhogarai	Nesco	132/33	3/28/2017	4	1
16	Tirtol	CESU	132/33	1/5/2018	5	1
17	Chandbali	Nesco	132/33	2/20/2019	4	1
18	Unit-8, BBSR	CESU	132/33	4/1/2019	5	1
19	Samagara	CESU	220/132/33	7/14/2015	5	2
20	Marshaghai	CESU	132/33	10/16/2015	5	2

21	Malkangiri	Southco	220/33	3/27/2017	4	2
22	Khajuriakata	CESU	132/33	3/28/2017	5	2
23	Podagada	Southco	132/33	2/9/2018	4	2
24	Kantabanji	Wesco	132/33	2/28/2018	5	2
25	Ghens	Wesco	132/33	4/13/2018	4	2
26	Khuntuni	CESU	132/33	5/31/2018	5	2
27	Narasinghpur	CESU	220/33	8/24/2018	5	2
28	Udala	Nesco	132/33	9/16/2018	5	2
29	Keonjhar	Nesco	220/33	12/31/2018	5	2
30	Chikiti	Southco	132/33	2/25/2019	4	2

Deliberation in the meeting

DGM (Const.) stated that 2 Nos. 40 MVA Transformers has been provided in the proposed Maneswar S/S. WESCO may divert all loads from Chipilima PH S/S to Maneswar S/S to make free the Chipilima PH S/S. SLDC suggested to instruct and impart training the executives deployed at the newly charged S/Ss for extraction of the meter data and forward to SLDC. DGM (Const.) suggested that SLDC may write a letter to CGM (Const.) in this regard

[Action: WESCO/ CGM (Construction) / DISCOMs/ SLDC]

E.2: HT metering at DISCOM interface points.-SLDC.

As per the Central Electricity Authority (Installation and Operation of Meters) Amendment Regulations, 2010, the interface meters shall be installed at the High Voltage side of the Inter Connecting Transformer. Accordingly POWERGRID has implemented the amended Regulation. GRIDCO / OPTCL may examine for metering in the High Voltage side of the ICT, which is done in the Low Voltage side at present.

This issue was also discussed in the 16th GCC meeting, where the DISCOMs highlighted the PPA provision for receiving power at 33 kV Voltage level by them. Director (Commercial) agreed to convene a meeting between DISCOMs, O&M & SLDC to discuss the issue. If required, GRIDCO shall approach the Hon'ble OERC for amendment of the PPA/ Supply Code if required to comply CEA Regulation.

In the 137th PSOC meeting it was requested that GRIDCO may convene a meeting to discuss the issue

In the 138th PSOC meeting GRIDCO stated that a meeting will be convened in the month of November'19 to discuss the issue

In the 139th PSOC meeting, it was suggested by the members that GRIDCO may convene a meeting soon. GRIDCO has assured to convene the meeting during the month of December'19.

Deliberations in the meeting

GRIDCO has agreed to convene a meeting during January'20 to discuss the issue.

[Action: OPTCL / GRIDCO]

E.3: Major Events in the month of November'19

On Dt 27.11.19 at 22:45 Hrs - 132 kV Duburi-JSW Cement Ltd feeder charged by LILO arrangement in existing 132 kV Duburi - MESCO ckt –I.

Members may note

E.4: Important Grid Incidences during the month of November'19.

There was no major incidences occurred during the month of November'19

E.5: Outage of major transmission Elements during the month of November'19. (above 10 hrs).

Deliberations in the meeting

Outage of major transmission elements during the month was reviewed. Most of the outages are due to conductor/ Jumper snapping. O&M may take necessary preventive action to avoid such type of outages in future.

[Action: O&M]

E.6: Prolonged outage of Transmission elements

Sl No	Transmission line / element	Date of outage	Reason	Expected date of restoration
1	220 kV Samangara – Pandiavil ckt – I& II	03.05.19	Tower collapsed during the severe cyclonic storm FANI.	

[Action: O&M]

E.7: Review of Outage Program of State Generators for the month of January'20:Tentative Outage programme for State Generators for the month of **January'20**

Sl.	Station	Unit	Period	Remarks
1	Burla	# 1 # 3 # 5 # 6 # 7	14.03.18 to continue 01.01.20 to 30.01.20 25.10.16 to continue 16.10.15 to continue 06.12.19 to 04.01.20	T&G coupling cover water leakage Annual Maintenance Under R,M & U Under R, M & U Annual Maintenance
2	Chipilima	# 2	07.01.20 to 07.02.20	Annual Maintenance
3	Balimela	# 1 # 2 # 8	05.08.16 to continue 20.11.17 to continue 07.01.20 to 31.01.20	Under R,M work Under R,M work Annual Maintenance
4	Rengali	# 3	01.01.20 to 31.01.20	Annual Maintenance & PSDF work
5	U. Kolab	# 1	04.12.19 to 03.01.20	Annual Maintenance
5	U. Indravati	# 2 # 3	20.01.19 to 19.02.20 18.11.19 to 30.12.19	Annual Maintenance Annual Maintenance

E.8: Generation Program for the month of January'20.

Generation schedule for the month of January'20 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Program (MW)		Reservoir Level as on 01.12.19	Reservoir Level as on 01.12.18	MDDL	High Flood Reservoir Level
	Jan'20 (1 st fortnight)	Jan'20 (2 nd fortnight)				
HPS-I, Burla	40	40	629.79 ft.	625.56 ft.	590 ft.	630 ft.
HPS-II, Chiplima	25	25	-	-	-	-
Balimela	190	190	1511.00 ft.	1510.00 ft.	1440 ft.	1516 ft.
Rengali	50	50	123.57 mtr.	118.15 mtr.	109.72 mtr	123.5 mtr.
U.Kolab	100	100	857.11 mts.	855.49 mtr.	844 mtr	858 mtr.
U. Indravati	250	250	640.50 mtr.	638.42 mtr.	639.40 mtr	642 mtr
MKD (O/D)	30	30	2747.85 ft.	2747.00 ft.	2685 ft.	2750 ft.
TOTAL	685	685				

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

E.9: Anticipated power generation and demand for the month of January'20.

Sl. No	Discom	Average	Peak
1	CESU	850	1050
2	WESCO	850	1100
3	NESCO	650	800
4	SOUTHCO	350	500
5	Total Discom	2700	3450
	System Loss & others	200	250
	Total Demand	2900	3700
Availability			
1	Hydro	685	1000
2	State Thermal	1100	1100
3	IPP, small hydro & RE	350	300
4	ISGS share (including OA& purchase)	900	1000
5	CGP support (OA)	300	300
6	Total availability	3335	3700
7	Surplus / Deficit	435	0

PART F: OTHER ISSUES

F.1: Date and Venue of the next (141st) PSOC meeting.

F.2: PAFM of hydro stations-SLDC

It is noticed that Outage and standby time of hydro units are not being intimated to SLDC, resulting dispute in PAFN computation. As such it is requested to intimate the above timing in the either of the following mails to SLDC. 1. hydpafm@gmail.com, 2. hydpafm@sldcorissa.org.in.

Deliberations in the meeting

OHPC has agreed to intimate the Outage and standby time of hydro units through the above mail.

[Action: OHPC/ SLDC]

F.3: Power injection constraint from BPPL Unit-II connected to TS Alloys switchyard.

M/s BPPL stated that they are not able to inject power from # 2 connected with M/s TS Alloys switchyard due to persistent overvoltage. A meeting was convened by O&M to discuss the issue. It was decided in the meeting to connect Nuapatana-Banki-Atri line with TS Alloys. SLDC shall conduct a System study. Accordingly, a system study was conducted by SLDC and it was observed that with the above network configuration, there is no substantial improvement in voltage at BPPL Bus-2. BPPL was advised to absorb reactive power as per their capability curve. It was decided that SLDC shall record the parameters in changed network configuration and forward views to O&M.

[Action: SLDC]

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

140 th Power System Operational Co-ordination Committee Meeting
 [At 11:00 A.M. on dt. 24.12.2019]
 [At PTC, Chandaka, Bhubaneswar]

Sl. No.	Name	Designation	Organisation	Mobile No.	E-mail Address	Signature
1	P K Mishra	CLD	SLDC	9438907402	clld_slldc@slldco.issg.orsis.in	
2	P. K. Das	Sr.G.M.	SLDC	9438907408	prashantk_das@yahoo.co.in	
3	S.K. Hari Chandan	CGM	OHM	9438907042	cgm.ohm@optel.co.in	
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