

ରାଜ୍ୟ ବିଦ୍ୟୁତ୍ ଭାର ପ୍ରେରଣ କେନ୍ଦ୍ର

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/ 778 (48)

Dated: 03.03.2020

From:

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

To:

As per distribution list

Sub: Minutes of 142nd PSOC meeting held on 29.02.2020 at PTC, Chandaka, Bhubaneswar.


Sir,

Please find enclosed herewith the minutes of 142nd Power System Operational Co-ordination meeting held on 29.02.2020 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, Banharipali.
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.

Odisha Power Transmission Corporation Ltd. Bhubaneswar.

Minutes of 142nd PSOC meeting held on 29.02.2020 at PTC, Chandaka, BBSR

List of participants is at Annexure.

Chief Load Despatcher, SLDC, OPTCL welcomed all the participants to the 142nd Power System Operational Coordination meeting and highlighted the system performance during the month of January'2020 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 141th PSOC meeting held on 29.01.2020

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2019/545 ⁽⁴⁹⁾ dated 18.02.2020 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 141th PSOC meeting was confirmed.

PART B: SYSTEM PERFORMANCE

B1: Review of Grid Performance for the month of January'2020.

(A) Frequency

It was noticed that, during the month of January'20, **73.28 %** of times the frequency remained in the IEGC band i.e. **49.90Hz - 50.05Hz** in comparison to **64.20 %** during the month of December'19. The maximum and minimum System frequency during the month was **50.14 Hz & 49.73 Hz** respectively.

Deliberations in the meeting

SLDC stated that the percentage of times of frequency in the IEGC band has been increased. The frequency ("above 50.05 Hz") range has been decreased from 30.07 % to 20.62 % in comparison with the previous month. The low frequency range 49.0-49.9 Hz has increased from 5.63 % to 6.11 %. The overall frequency during the month has been improved. DGM (Telecom) shown a comparison between the frequency collected from PMU and Bidanasi as tabled.

Month	Bidanasi	PMU
Dec'19 (Max)	50.18	50.0038
Dec'19 (Min)	49.74	49.7357
Jan'20 (Max)	50.14	50.1529
Jan'20 (Min)	49.73	49.8082

It is noticed that the difference is marginal. It was suggested that PMU frequency, which is more accurate may be adopted in future.

[Action: Telecom / SLDC]

(B) Grid demand

Grid demand for the month of January'20 was reviewed. The average consumption during the month was **2787 MW**. The maximum System demand of **3619 MW** occurred on **25.01.20** at 19:00 Hrs and minimum demand of **1936 MW** occurred on **04.01.19** at 04:00 Hrs.

Deliberation in the meeting

It is observed that the average demand during the month of January'20 was decreased substantially to the tune of 213 MW while the maximum demand was reduced by 587 MW. The maximum and average demand has been decreased by 580 MW and 308 MW respectively in comparison to the same month of the previous year. The reduction of demand might have been due to reduction of power import by Vedanta Ltd through Open Access transaction and adverse weather condition during the month.

(C) Voltage Profile of important Sub Stations in OPTCL System during the month of Jan.'20.

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

Deliberations in the meeting

The maximum Voltage of **241.91 kV** occurred at Duburi New **220 kV bus.**, while **Paradeep** 220 kV bus has experienced the minimum Voltage of **213.39 kV**. The 220 kV Voltage profile of Duburi New, Paradeep and 400 kV Voltage profile of Mendhasal, Meramundali and New Duburi bus during the month of **Jan'2020** was reviewed.

Members expressed concern regarding high Voltage condition at Meramundali 400 kV bus, for which the State is paying penalty for reactive power injection. SLDC may direct the generators to absorb VAr during high Voltage conditions. It was decided that SLDC shall convene a meeting between OPTCL, GRIDCO and all the generators connected to Meramundali S/S to discuss the issue.

[Action: SLDC]

(D) Loading of 220/ 132 kV Auto Transformer at 220 kV S/Ss in OPTCL system for the month of Jan'20.

Auto Tfr and ICT loading of all 400/220 & 220/132 kV S/Ss during the month of January'20 was reviewed.

[Action: SLDC]

(E) DISCOM Drawal during the month of January'20

The schedule and actual energy drawal by Discoms for the month of **January'20** was reviewed.

Deliberation in the meeting:

It is noticed that **WESCO & SOUTHCO** were maintained their drawal as per the schedule while **CESU & NESCO** had overdrawn during the month. CESU has deviated **1.853%** followed by NESCO **1.293%** from the scheduled energy while **WESCO & SOUTHCO** have deviated **0.272 %** & **0.968 %** respectively. DISCOMs may forecast their drawal in realistic approach to minimise deviation.

DISCOMs stated that in view of change in system configuration, the RVDU configuration need to be changed. It was decided that the executive of DISCOMs deployed at SLDC may coordinate with the Telecom executive for change of RVDU configuration. 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 January'20

Energy generation and exchange during the month of January'20 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 **2073.451 MU**.

Deliberations in the meeting

The quantum of energy transaction has decreased by **158.373 MU** in comparison with previous month.

(G) Drawal of Machhakund Power during the month of January'20

The drawal of Machhakund power during the month of December'19 was **28.374 MU**, against AP drawal of **30.091 MU**. The cumulative drawal of the State during the FY-2019-20 (up to Dec'19) was less by 29.378 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.

In the 140th PSOC meeting CGM (O&M) suggested to connect 33kV Koraput Medical feeder 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.

In the 141th PSOC meeting GRIDCO has agreed to convene a meeting with PMU during the month of February'20 to discuss the issue. CGM (O&M) suggested to Kakariguma feeder may be added to Podagada S/S.

Deliberations in the meeting

GRIDCO stated that a meeting was convened by GRIDCO on 28.02.20 to discuss the issue of connecting feeders to Podagada S/S. SOUTHCO stated that Podagada and Dasmantapur 33 kV feeders have already been connected with Podagada S/S and drawing power. Further connectivity of Medical feeder will take one month time as, 2 KMs of line is yet to be constructed. AGM (Const) suggested to connect Kakariguma feeder, which is connected with Laxmipur S/S may be connected with Dasmantpur feeder as an interim arrangement without dismantling the line from Laxmipur end.

[Action: GRIDCO/SLDC/SOUTHCO]

(H) Under Frequency relay operation in OPTCL System during the month of January'20.

There is no UF Relay operation during the month of January'20 as the frequency had never gone beyond 48.50 Hz.

(I) Status of Open Access applications during the month of January'2020

SLDC has processed 129 numbers of Short Term / Medium term and Collective transaction applications for according Approval / Consent / NoC during the month and disposed all.

PART C – Issues discussed in the 166th OCC meeting of ERPC on 20.02.2020

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. Expenditure may not exceed Rs. 68 Cr.	63.00 Cr. Received	<i>Work almost completed.</i>
7		Implementation of OPGW based reliable communication at 132kV and above substations	15.11.2017		51.22 Cr	7.60 Cr received as 10 % DPR. Claimed for 20 %.	750 KMs received. Work started 1000 Kms expected by 31 st March'20.
13	OHPC	Renovation & up-gradation of protection & control system of 4 nos. OHPC sub-stations		U.Kolab- May 20 Balimela- May 20 U.Indravati- May 20 Burla & Chipilima May 20	22.35 Cr.	18.62 Cr	<i>Placed work order for all Stn.s for Rs. 17.00 Lacs. Chipilima work completed.</i>
Projects under process of approval:							
	OPTCL	Installation of 125 MVAR Bus Reactor along with construction of associated bay each at 400kV Grid S/S of Mendhasal, Meramundali & New Duburi for VAR control & stabilisation of system voltage	27-07-18		31.94 Cr Ested. Cost. Approved amount 30.26 Cr. Grant amount 27.23 Cr.	Rs.2.72 Cr received as 10% of DPR. Retendering under process.	Order placed Expected by end of Mar'21.
Projects recently submitted:							
	OPTCL	Implementation of Automatic Demand	22-12-17 Date of		3.26 Cr Estt cost.		CERC approval

		Management System (ADMS) in SLDC, Odisha	submission		2.93 Cr recommended by Appraisal committee.		received. Tender floated. Pre-bid meeting held. Query to be complied.
	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 received.	Tender floated.

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

C.2: 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.

WBPDCCL 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.

In the 140th PSOC meeting, it was decided to convene the meeting by SLDC with OPGC & O&M after finalization of the commercial issue.

As decided in the 141th PSOC meeting a meeting was convened by SLDC on dated 18.02.2020 between OPGC, GRIDCO. A committee was constituted with representatives of OPGC, SLDC and GRIDCO. The members will visit Barh NTPC station to study the mechanism adopted for AGC and interact with NLDC in this regard.

Deliberations in the meeting

It was decided that the team will visit Barh Thermal station of NTPC from 11.03.20 to 14.03.20. SLDC shall take necessary approval from the competent authority for their outside tour.

[Action: SLDC/ OPGC]

C.3: Severe Fluctuation in Voltage and Power in Jeypore -Gajuwaka Area (HVDC pole 1 tripped) observed on 31 Jan and 4th and 5th Feb 2020

Three events of severe nature have occurred near Jeypore and Gajuwaka Area where severe hunting has been observed in Power and Voltage and HVDC Gajuwaka Pole 1 has tripped. The timing of the event is as follows: 1. 14:46hrs to 14:51hrs on 31-01-2020 2. 14:34hrs to 14:36hrs on 04-02-2020 3. 08:34hrs to 08:38hrs on 05-02-2020

An email was sent from ERLDC on 6th-Feb 2020 showing severity of the oscillation and seeking following information:

Orissa SLDC/OPTCL/OHPC/OPGC to find out and Share (SLDC to coordinate) and NTPC Talcher:

1. Any Generator Control Malfunction (All Hydro/thermal near Jeypore/Indrawati areas for their excitation/governor control issues)
2. Any Transmission line where continuous auto-reclosure occurring due to transient fault (Arcing due to lower voltage kv line passing below)
3. Any other reason for such faults and fluctuation in Orissa network
4. Any CPPs/Loads providing such fluctuation in the system
5. Why No generators of Orissa has reported hunting to System Operator in such huge network fluctuation

Deliberations in the meeting

SLDC stated that the report as sought has been submitted to ERPC. Report for 25th February is to be sent. OHPC stated that the report may be shared with them.

[Action: SLDC/ OHPC]

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 165th OCC ERLDC gave a presentation on the uniform logic. The proposed logic for ADMS operation is given below:

If frequency is less than 49.9 Hz for 3 minutes
and
Overdrwal/Under injection > 150 MW or 12 %

OCC advised all the states to go through the presentation and submit their comments to ERPC and ERLDC for finalization of ADMS logic.

In the 141th PSOC meeting SLDC stated that Tender will be floated by end of February'2020.

Deliberations in the meeting

SLDC stated that the tender has been floated. The logic proposed by ERLDC shall be incorporated.

[Action: SLDC]

C.5: Implementation of SPS to avoid over drawl from Jamshedpur (DVC) S/s

In 8th SSCM, OPTCL informed that they need power assistance of maximum 55 MW from 220kV Jamshedpur S/s, DVC to meet the load of JSPL during replacement work of the conductor of 220kV Joda-JSPL line.

DVC agreed to provide maximum 55 MW from 220kV Jamshedpur S/s during the conductor replacement work, however DVC requested to implement SPS to avoid over drawl from 220kV Jamshedpur S/s during any contingency in the system.

In 165th OCC, DVC requested to implement SPS to avoid over drawl from 220kV Jamshedpur S/s during any contingency in the system.

OCC advised OPTCL to give a requisition and other relevant details to DVC.

OCC decided to discuss the SPS in a separate meeting with all the concerned utilities

Deliberations in the meeting

AGM (O&M) stated that a meeting has been convened today to discuss the issue

[Action: O&M]

C.6: Report of expert group to review India Electricity Grid Code (IEGC)--ERLDC

The Commission vide office order dated 28.5.2019 constituted an Expert Group to review "Indian Electricity Grid Code and other related issues" under the Chairmanship of Shri Rakesh Nath, Ex-Chairperson, CEA & Ex-Member (Tech) of APTCL with Shri A.S.Bakshi, Ex-Chairperson, CEA & Ex-Member, CERC, Shri Ravinder, Ex-Chairperson, CEA & ExChief (Engg.), CERC as Members and Shri S.C.Shrivastava, Chief (Engg.), CERC as Member, Convenor. The group co-

opted Shri S.R.Narasimhan, Director (S.O), POSOCO and Shri Hemant Jain, Chief Engineer (G.M), CEA as Members of the Expert Group.

The Expert Group has finalized its recommendation as per comments received from various stake holder and several expert group meetings in the form of draft Indian Electricity Grid Code (IEGC), 2020, which is published in CERC website at the following link <http://cercind.gov.in/2020/reports/Final%20Report%20dated%2014.1.2020.pdf>

In 165th OCC, members requested Member Secretary, ERPC to conduct a workshop on the draft Indian Electricity Grid Code (IEGC), 2020 for better understanding.

As per the OCC decision, the workshop was conducted at ERPC on 13th February, 2020 wherein Shri S. R. Narasimhan, Director (SO), POSOCO gave a detailed presentation.

In the workshop, it was informed that all states may submit their comments on the draft Indian Electricity Grid Code (IEGC), 2020 for further discussion.

Deliberations in the meeting

GRIDCO is preparing their suggestions to the Draft Grid Code. OPTCL & SLDC may forward their comments if any.

[Action: GRIDCO/ OPTCL/SLDC]

C.7: Training on “Safe and Secure Power System Operation”

As a part of Capacity Building initiative for the Power Sector engineers of the Eastern Region, a ‘5 days Training Programme’ on “Ensuring Safe and Secure Power System Operation” is being organized by ERPC in association with Asia Institute of Power Management (AIPM), a training arm of CESC Limited at Kolkata from 02.03.2020 to 06.03.2020 (5 days) under PSDF Project. This will be the 4th Training Module for the year 2019 – 20 and ERPC Secretariat had notified to all the Power Utilities of ER on 27.01.2020 seeking nomination for 1 to 2 engineers of each organisation since the batch size is limited to 35 nos. only. Except a few organisation of ER including Bhutan Authorities, the nominations from most of the organizations are still awaited.

The Constituents who are yet to nominate engineers (1 / 2 nos.) for the 4th Module of AIPM Training commencing from 02.03.2020 to 06.03.2020 may please send the nominations to ERPC Secretariat at mserpc-power@nic.in positively by 21.02.2020.

Deliberations in the meeting

SLDC stated that Executives will be nominated for the next Module training. O&M and GRIDCO may nominate their engineers for the training.

[SLDC/ GRIDCO/ O&M]

C.8: Updated Black Start and Restoration Procedure of Eastern Region – ERLDC

In compliance with clause 5.8 (a) and (b) of the present IEGC, The Restoration Procedure has to be developed and updated annually by RLDC in consultation with NLDC, all users, STU,SLDC,CTU, RPC Secretariat of the region.

Draft copy of “Black Start and Restoration Procedure” was circulated on 16th Jan 2020 for review and feedback from stake holder. All stake holder are requested to give comments by 27th Jan 2020.

So that the procedure can be finalized by 30th Jan 2020.

In line with decision taken during 165th OCC meeting “Black Start and Restoration Procedure” of Eastern Region was finalized and circulated to all concerned on 31st Jan 2020.

[SLDC/ OHPC/O&M may note]

C.9: Status of Islanding Scheme of IBTPS

Islanding scheme of IBTPS was discussed and finalized in earlier OCC and PCC meeting, OPGC ensured that the islanding scheme will be in place within 6 months post finalization of scheme.

Deliberations in the meeting

OPGC stated that the islanding scheme will be installed during the overhauling of their units in the month of August'20

[Action: OPGC/ O&M]

C.10: 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 141th 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. Work started.
3.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C	June'2020

[Action: C.GM (Cont) / CGM (O&M)]

C.11: 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.

In the 140th PSOC meeting, DGM (Telecom) stated that protection scheme has already been incorporated in the estimate. NALCO representative was not present in the meeting for deliberation.

In the 141th PSOC meeting, NALCO stated that the file is under process by their Finance wing.

Deliberations in the meeting

NALCO stated that tendering will be done at their end. OPTCL will supervise the work.

[Action NALCO / Telecom]

C.12: 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	March'20
3	Rengali	2nd week of June 2019	Done on June'19	Last week of November 2019	March'20
4	U.Indravati	3rd week of June 2019	Done on June'19	2nd week of February 2020	March'20
6	Balimela	3rd week of October 2019	Done on 17 th July19	1st week of March 2020	Done on 12.02.20
9	Burla	Last week of June 2019	Done on 20 th July' 2019	Last week of February 2020	Done on 11.02.20

Deliberations in the meeting

SLDC stated that a procedure need to be developed for keeping Sunabeda area load at Upper Kolab unit using Damanjodi 132 kV bus. HAL load will be on Sunabeda reserve bus. SLDC will develop the procedure and forward to O&M.

[Action:SLDC / O&M/ OHPC]

C.13: 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 163rd OCC, OCC advised all the constituents, SLDCs and ISTS licensees to submit the details to erldcprotection@posoco.co.in as per the format.

List of upcoming Transmission Element is received from Bihar and Jharkhand.

In the 141th PSOC meeting, AGM (Const) stated that the information has already been submitted.

Deliberations in the meeting

The required information has already been sent to ERPC

C.14: 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

O&M stated that the information is under preparation and will be submitted to ERPC

[Action: O&M]

C.15: 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 plan 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.

In the 140th PSOC meeting, SLDC stated that IT wing have forwarded the report in the prescribed format to ERPC for the Qr. ending Sept'2019.

In the 141th PSOC meeting IT stated that ISO certification for cyber security has been renewed for one year. Telecom may provide 6 Nos. CCTV, Fire alarm and biometric arrangement for their server room.

Deliberations in the meeting

Telecom stated that the position of CCTV cameras has been finalized. BoQ will be prepared for placing order.

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

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 **Jan'20**:

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)	Deviation (%)
1	CESU	0	9.83	1.853
2	WESCO	0	1.607	0.272
3	NESCO	0	5.051	1.293
4	SOUTHCO	0	2.497	0.968
	Total	0	18.985	

It is noticed that **WESCO & SOUTHCO** were maintained their drawal as per the schedule while **CESU & NESCO** had overdrawn during the month. CESU has deviated **1.853%** followed by NESCO **1.293%** from the scheduled energy while **WESCO & SOUTHCO** have deviated **0.272 % & 0.968 %** respectively. DISCOMs may forecast their drawal in realistic approach to minimise deviation. Daily drawal profile of all DISCOMs is as indicated in the presentation.

Deliberations in the meeting

NESCO & CESU representatives stated that they are not receiving data when power is extended to some of the S/Ss from alternate sources. SLDC advised that the DISCOM engineers deployed at SLDC may coordinate with Telecom engineers at SLDC to resolve the issue.

[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.

In the 140th PSOC 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.

In the 141th PSOC meeting GRIDCO stated that 15th January'20 was the dead line fixed for placing order by the developers. Data communication is expected by end of March'2020.

Deliberations in the meeting

GRIDCO stated that 11 Nos out of 15 of the Solar developer have places order to M/s Chemtrol. 3 Nos of Solar plants are being asked to place order soon. GEDCOL is yet to place their order. It was decided that GRIDCO may convene a meeting with the defaulting plants ant M/s Chemtrol to discuss the issue.

[Action: GRIDCO]

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 138th PSOC meeting, it was suggested that Telecom may ensure establishment of data communication facility before recommending for connectivity for any Solar Plant.

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

In the 140th PSOC 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.

In the 141th PSOC meeting DGM (Telecom) stated that Vento Solar at Kesinga has procured PLC in place of RTU resulting non- communication of data. It was decided that GRIDCO shall approach all the RE projects to speed up the process of data communication. Telecom may explore the process for laying of optical fiber.

Deliberations in the meeting

Sr. G.M (Telecom) stated that M/s Vento Solar has decided to provide Gateway at their end for data communication. Procurement of Optical fiber will take at least 6 month time.

[Action: Sr. G.M (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.

In the 140th PSOC 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.

In the 141st PSOC meeting it was decided that GRIDCO shall convene a meeting with solar developer to discuss the issue of day ahead scheduling of solar power injection.

Deliberations in the meeting

It was decided that GRIDCO will write a letter to all the solar power plants to furnish their day-ahead injection schedule to SLDC.

[Action: GRIDCO]

D.5: Furnishing of generation data of RES Plants-regarding.

Director (RPM), CEA vide letter No 1412 dated 18.02.2020 has sought plant wise and State wise generation details of RE plants for last 5 years in the prescribed format. Copy of the letter is enclosed as Annexure-1&2.

GRIDCO may submit the required information to SLDC for onward transmission to CEA.

Deliberations in the meeting

GRIDCO assured to forward the required information to SLDC within a week.

[Action: GRIDCO]

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.

In the 140th PSOC 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.

In the 141th PSOC meeting IT stated that UAT has been started since 27th January'2020. It was suggested that TTPS may write GRIDCO for providing the port to capture data for monitoring purpose.

Deliberations in the meeting

IT stated that UAT is under progress. It was decided that TTPS (NTPC) will write a letter to GRIDCO to provide access to the energy meter port only. GRIDCO may co-ordinate with OPTCL in this regard.

[Action: IT / GRIDCO/ O&M (OPTCL)]

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.	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 Jeypur PG is not ready.
2	400 kV Meramundali-Mendhasal 2nd ckt.	Charged on 29.02.2020
3	220 kV Pandiabili-Pratapsasan line	July'20
4	132 kV Pratapsasan-Phulnakhara line	March'20
5	220/132/33 kV, Pratapsasan S/S	March'20
6	220/33 kV, Deogarh S/S	March'20
7	132/33 kV, Maneswar S/S	March'20
8	132/33 kV, Boriguma S/S	Sept'20
9	220/33 kV, 2x20 MVA Baliguda S/S	Forest clearance awaited
10	220/33 kV, 2x20 MVA Kalimela S/S	Forest clearance awaited
11	220/132/33 kV, Goda Chhak S/S (320 MVA)	March'20
12	220/132 kV Kesinga S/S	Dec'20
13	132/33 kV R.Udyagiri S/S	Mar'20
14	220/33 kV Laxmipur S/S 2nd 20 MVA Tfr.	Mar'20
15	132/33 kV, Mancheswar GIS	Charged on 28.02.2020
16	132/33 kV, Satasankha S/S	March'2020
17	220/33 kV, 2x20 MVA, Govindapali S/S	Forest clearance awaited

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

Sl No.	Name of Project	DISCOM	Voltage	Date of Charging	Bays Available	Bays utilized
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	1
6	Betanati	Nesco	132/33	4/19/2019	3	1
7	Kasipur	Southco	220/33	6/30/2019	2	Nil
8	Jayapatana	Wesco	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	2
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

In the 140th PSOC meeting AGM (Const.) stated that 2 Nos. 40 MVA Transformers have 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.

In the 141st PSOC meeting WESCO stated that due to shortage of funds they cannot construct 33 kV line. It was suggested that CGM (Const) may convene a meeting to review the take-off arrangement.

Deliberations in the meeting

CGM, CESU stated that as discussed in a meeting between CESU & CMD, OPTCL, CESU will prepare estimate for 33kV take-off arrangement all the newly commissioned sub-stations in CESU area for which OPTCL will make payment. However, subsequent action is to be taken after publication of the minutes of the said meeting.

The DISCOMs stated that some of the 33kV feeders shall be charged during March'20.

[Action: CGM (Const.) / all DISCOMs]

E.2: Major Events in the month of January'20

1. On Dt. 23.01.20 at 00:37 Hrs -160 MVA, 220/132 kV Auto Trans -II at Jayapatna S/S charged.
2. On Dt 22.01.20 at 13:36 Hrs – 2nd 40 MVA, 132/33 kV Power Tfr. charged at GIS, Khuntuni.
3. On dt. 27.01.20 at 17:55 Hrs - 132 kV Bolangir (New) -Sonepur feeder charged through “T” arrangement in 132 kV Bolongir (Old)- Sonepur ckt at Loc no-14.

[Members may note]

E.3: Important Grid Incidences during the month of January'20.

There was no major incidences occurred during the month of January'20

E.4: Outage of major transmission Elements during the month of January'20. (above 10 hrs).

Outage of major transmission Elements during the month of January'20. (above 10 hrs) was reviewed and the outages are due failures of LA.

E.5: 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.	Entrusted to PGCIL

[Action: CGM (Const.)]

E.6: Review of Outage Program of State Generators for the month of March'20:

Tentative Outage programme for State Generators for the month of **March'20**

Sl.	Station	Unit	Period	Remarks
1	Burla	# 1 # 5 # 6 # 7	14.03.18 to continue 25.10.16 to continue 16.10.15 to continue 06.12.19 to 31.05.20	T&G coupling cover water leakage Under R,M & U Under R, M & U Annual Maintenance
2	Balimela	# 1 # 2 # 3	05.08.16 to continue 20.11.17 to continue 02.03.20 to 27.03.20	Under R,M work Under R,M work Annual Maintenance
3	Rengali	# 5	01.03.20 to 15.04.20	Annual Maintenance
4	Upper Kolab	# 3	07.01.20 to 10.03.20	Annual Maintenance

E.7: Generation Program for the month of March'20.

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

Name of Hydro Gen. Station	Generation Program (MW)		Reservoir Level as on 01.02.2020	Reservoir Level as on 01.02.2019	MDDL	High Flood Reservoir Level
	Mar'20 (1 st fortnight)	Mar'20 (2 nd fortnight)				
HPS-I, Burla	50	50	626.37 ft.	622.58 ft.	590 ft.	630 ft.
HPS-II, Chiplima	35	35	-	-	-	-
Balimela	190	190	1502.60 ft.	1503.20 ft.	1440 ft.	1516 ft.
Rengali	70	70	122.45 mtr.	117.20 mtr.	109.72 mtr	123.5 mtr.
U.Kolab	130	130	855.69 mts.	854.22 mtr.	844 mtr	858 mtr.
U. Indravati	300	300	639.15 mtr.	638.00 mtr.	625 mtr	642 mtr
MKD (O/D)	30	30	2741.65 ft.	2739.55 ft.	2685 ft.	2750 ft.
TOTAL	805	805				

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

E.8: Anticipated power generation and demand for the month of March'20.

Sl. No	Discom	Average	Peak
1	CESU	1050	1200
2	WESCO	1000	1150
3	NESCO	850	950
4	SOUTHCO	450	550
5	Total Discom	3350	3850
	System Loss & others	200	250
	Total Demand	3550	4100
Availability			
1	Hydro	805	1100
2	State Thermal	1300	1300
3	IPP, small hydro & RE	600	550
4	ISGS share (including OA& purchase)	1200	1300
5	CGP support (OA)	300	300
6	Total availability	3905	4250
7	Surplus / Deficit	655	450

PART F: OTHER ISSUES**Vedanta IPP matters-Gridco**

GRIDCO has sought for 15 minutes SCADA data of GT meters for all the units of Vedanta i.e. 4X600MW with effect from 30.01.2020. Further suggested SLDC to issue direction for submission of day ahead generation schedule for all converted CGP units.

Deliberations in the meeting

SLDC stated that 15 minutes generation data for the month of January & February-2020 may be collected from Vedanta. 15minutes generation data for CGP converted units shall be forwarded to GRIDCO trading cell along with the other generator data. A meeting with Vedanta may be convened by GRIDCO to discuss the issue in detail.

[Action: Telecom, SLDC / GRIDCO]

All members expressed their gratitude to Er. Sankar Krishnan, CGM, Electrical, who is going to retire from service on superannuation. PSOC will remember his valuable advice and the foot prints he has left for all times with deep regard.

F.1: Date and Venue of the next (143rd) PSOC meeting.

ANNEXURE

142 nd Power System Operational Co-ordination Committee Meeting
[At 11:00 A.M. on dt. 29.02.2020]
[At: PTC, Chandaka, Bhubaneswar]

Sl. No.	Name	Designation	Organisation	Mobile No.	E-mail Address	Signature
1	PK Mishra	CLD	SLDC	9438907402	clld.sldc@sldeosr.ssa.egs.in	
2	G.C. Patra	CGM(CE)	OPTCL	9438908066	cgm-con@optcl.co.in	
3	Mukesh Mishra	CGM	CECU	9438233015	cgm@cecu.co.in	
4	P.C. Mahapatra	Sr.GM	OPTCL	9438907320	ele.pcmahapatra@optcl.co.in	
5	Jayaram Sahu	Sr.GM	OPTCL	9438907859	ele.jaysahu@optcl.co.in	
6	Prashant Kumar Das	Sr.GM	SLDC	9438907408	prashant_kumar_das@sldeosr.ssa.egs.in	
7	K.T.R. ACHARY	Sr. GM	OPTCL	9438908037	ktrachary@optcl.co.in	
8	A.K. Mohanty	DGM	CHC	7325840009	akm.678@chc.co.in	
9	B.N. MALLICK	DGM(EL)	CHDC	7328840086	bnmash@smail.com	
10	PK Mahapatra	AGM	DPCL	9338715401	pradep.mahapatra@dpcl.co.in	
11	PK Behera	AGM(EL)	NALLI	9437079816	prakash.behera@nalli.co.in	
12	P. R. Meher	DGM(CE)	SLDC	9438907540	prmeher@sldeosr.ssa.egs.in	
13	P.K. NAYAK	DGM(CE)	OPTCL	9438907502	ele.pknayak@optcl.co.in	
14	S.K. MISHRA	DGM(CE)	PTC ER-DHR	7606000992	skmishra@ptc.co.in	
15	P. KANNAN	AGM (EOD)	NTPC TAILOR THERMAL	8500746200	pkannan@ntpc.co.in	
16	A.R. Reddy Subudhi	GM (EL)	OPTCL (CP)	9438907864	ele.arsubudhi@optcl.co.in	
17	R.V. Narasimha	GM(EL)	OPTCL (CP)	9438907992	ele.pnarasimha@optcl.co.in	
18	T.R. Subudhi	AGM (Comm)	CECU	8114895911	commerce.subudhi@cecu.co.in	
19	M.L. Behera	DM(EL)	WESCO	8114393823	mlbehera@wesroodisha.com	
20	A.K. Banerjee	DGM	OPTCL	9438907352	ele.akbanerjee@optcl.co.in	
21	Madhusudan Sahoo	DGM	GRIDCO	9692427876	gridco.ebc@gmail.com. ms.sahoo	
22	B. Panda	AGM	SLDC	9438907415	ele.bdpanda@sldeosr.ssa.egs.in	
23	S. Panda	GM(EL)	GRIDCO	9438955701	ele.pandasa@gridco.co.in	
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