



# ରାଜ୍ୟ ବିଦ୍ୟୁତ୍ ଭାର ପ୍ରେରଣ କେନ୍ଦ୍ର

STATE LOAD DESPATCH CENTRE  
ORISSA POWER TRANSMISSION CORPORATION LIMITED  
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CIN: U40102OR2004SGC007553

No-SGM (PS)-PL-15/2019/ 4012<sup>(49)</sup>

Dated: 23.11.2020

From:

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

To:

As per distribution list

**Sub: Minutes of 143<sup>rd</sup> PSOC meeting held on 07.10.2020 through video conferencing.**

Sir,

Please find enclosed herewith the minutes of 143<sup>rd</sup> Power System Operational Co-ordination meeting held on 07.10.2020 through video conferencing.

This is for your information & necessary action.

Encl: As above

Yours faithfully;

Director/Chief Load Despatcher,  
SLDC, OPTCL

- (i) Copy along with enclosures forwarded to the Executive Assistant to MD, GRIDCO for kind information of MD.
- (ii) Copy along with enclosures forwarded to the Executive Assistant to MD, OPTCL for kind information of MD.

# Odisha Power Transmission Corporation Ltd. Bhubaneswar.

## Minutes of 143<sup>rd</sup> PSOC meeting held on 07.10.2020 through Video Conferencing

List of participants is at Annexure.

Director cum Chief Load Despatcher, SLDC, OPTCL welcomed all the participants to the 143<sup>rd</sup> Power System Operational Coordination meeting and highlighted the system performance during the month of August'2020 and overall power scenario of the State.

Manager, SLDC took the agenda items for discussion.

### The review proceeded as follows:

#### A. Confirmation of the minutes of the 142<sup>nd</sup> PSOC Meeting held on 29.02.2020

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2019/798<sup>(48)</sup> dated 03.03.2020 to all the members and also uploaded in the SLDC website. Members may offer their comments. If there are no comments, the minutes of the meeting may please be confirmed.

#### Deliberation in the meeting:

Since no comments have been received from the members, the minutes of 142<sup>nd</sup> PSOC meeting was confirmed.

### PART B: GRID PERFORMANCE

#### Review of Grid Performance for the month of August'20.

##### A. Frequency:

It was noticed that, during the month of August'20, **78.93 %** of times the frequency remained in the IEGC band i.e. **49.90Hz - 50.05Hz** in comparison to **77.02 %** during the month of July'20. The maximum and minimum System frequency during the month was **50.24 Hz & 49.60 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 16.78 % to 15.08 % in comparison with the previous month. The low frequency range 49.0-49.9 Hz has decreased from 6.20 % to 5.99 %.

##### B. Grid Demand up to the month of August'20

Grid demand for the month of August'20 was reviewed. The average consumption during the month was **3530 MW**. The maximum System demand of **4488 MW** occurred on **28.08.20** at 20:00 Hrs and minimum demand of **2594 MW** occurred on **26.08.20** at 05:00 Hrs.

##### Deliberation in the meeting

It is observed that the demand during the month of July'20 & August'20 is below the predicted demand in LGBR(2020-21) due to the Covid-19 pandemic. Vedanta drawl at the time of maximum System demand during the month August'20 was about 370 MW.

##### C. Voltage Profile of 220 kV Buses in OPTCL system for the month of: August'20

The Voltage profile at different 220 kV buses in OPTCL system during the month of **August'20** was reviewed.

##### Deliberations in the meeting

The maximum Voltage of **241.27 kV** occurred at **Laxmipur 220 kV bus.**, while **Bhadrak** 220 kV bus has experienced the minimum Voltage of **197.28 kV**.

**D. Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of Aug– 2020.**

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

**E. DISCOM Drawal up to the month of August'20**

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

**Deliberation in the meeting:**

It is noticed that NESCO has deviated **1.41%** followed by TPCODL **1.27%** from the scheduled energy while **WESCO & SOUTHCO** have deviated **0.864 % & 0.53 %** respectively. DISCOMs may forecast their drawl in realistic approach to minimise deviation.

**F. Energy Generation / Import up to the month of August'20**

Energy generation and exchange during the month of August'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 **2626.20 MU**.

**Deliberations in the meeting:**

The quantum of energy transaction has decreased by **102.36 MU** in comparison with previous month because of low demand due to Covid-19 pandemic.

**G. Drawal of Machhakund Power**

The drawal of Machhakund power up to the month of **August'20** are as detailed:

Month	Total Generation		Odisha Drawl		AP Drawl	
	MU	Avg (MW)	MU	Avg (MW)	MU	Avg (MW)
Apr'20	57.086	79.29	25.622	35.59	29.349	40.76
May'20	55.641	77.28	24.205	33.62	29.303	40.70
June'20	44.487	61.79	20.341	28.25	22.196	30.83
July'20	46.918	65.16	21.216	29.47	23.592	32.77
Aug'20	55.330	76.85	25.455	35.35	27.531	38.24
Total	<b>555.791</b>	<b>72.074</b>	<b>254.395</b>	<b>32.456</b>	<b>283.680</b>	<b>36.66</b>

In the 136<sup>th</sup> 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 137<sup>th</sup> 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 139<sup>th</sup> 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 140<sup>th</sup> PSOC 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.

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 that Kakariguma feeder may be added to Podagada S/S.

**Deliberations in the meeting:**

All the members opined to maximize the drawl from Machhakund P.H. by putting matching load.

**H. Under Frequency Relay operation in OPTCL System during the month of August'20.**

Since, the frequency had never gone beyond the lowest setting of UFR, there was no UF Relay operation occurred during the month of August'20.

**I. Status of Open Access applications up to the month of August 2020**

SLDC has processed 209 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 earlier OCC meetings of ERPC**

**C.1: Testing of primary frequency response of state generating units by third party agency--ERLDC**

The Hon'ble Central Electricity Regulatory Commission (CERC), vide notification dated 12th April 2017, had notified Indian Electricity Grid Code (Fifth Amendment) Regulations, 2017. As per this notification, following proviso has been added at the end of Regulation 5.2 (g) of Part 5 of the Principal Indian Electricity Grid Code (IEGC) Regulations: *"Provided that periodic check-ups by third party should be conducted at regular interval once in two years through independent agencies selected by RLDCs or SLDCs as the case may be. The cost of such tests shall be recovered by the RLDCs or SLDCs from the Generators. If deemed necessary by RLDCs/SLDCs, the test may be conducted more than once in two years."* In compliance of IEGC, process of testing of primary frequency response of regional generating units (eligible for RGMO as per IEGC section 5.2 (f)) has been started by POSOCO. All the SLDCs are requested to share their action plan for testing of primary frequency response of the generating units.

**Deliberation in the meeting:**

OHPC proposed to carry out the Primary Frequency Response testing of one of its identified unit by third party agency. Based on the result, OHPC will take further decision in this regard for testing of the other units.

OPGC informed that PFRC testing of #4 has already been performed by third party agency. SLDC advised OPGC to forward the test report of #4 and initiate action for the testing of other units.

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

**C.2: Monthly Data on Category-wise consumption of electricity in States/UTs--- CEA**

1. CEA vide mail informed that Hon'ble MoSP(IC) has desired the month-wise category-wise consumption data in the various States/UTs from April, 2019 to July, 2020. CEA requested all the concerned utilities of States to furnish the data at the earliest. All the concerned utilities of States may furnish the data.

2. CEA also informed that Hon'ble MoSP(IC) has also desired to know the reasons for the use of captive power plants by Industrial Consumers despite availability of adequate power in the country.

**Deliberation in the meeting:**

SLDC pointed out that there is mismatch between the energy drawl by the DISCOMs based on SLDC energy accounting data and the monthly category wise consumption data submitted by DISCOMs. The DISCOMs informed that the category wise consumption data is based on the billing data raised on the category of customers and it will not exactly match with the SLDC energy data. SLDC advised the DISCOMs to minimise the mismatch.

GRIDCO is advised to forward its views regarding the reasons for the use of captive power plants by Industrial Consumers despite availability of adequate power in the country.

[Action: DISCOMs / GRIDCO]

**C.3: Data for preparation Load Generation Balance Report (LGBR) of ER for the year 2021-22**

As per the IEGC, RPC Secretariat is responsible for finalization of the Annual Load Generation Balance Report (LGBR) for Peak as well as Off-peak scenarios and the annual outage plan for the respective region. To facilitate the preparation of LGBR of Eastern Region by ERPC Secretariat within the schedule period, the following data/information for

(a) Balance period of current Financial Year 2020-2021 with effect from October' 2020 to March' 2021 and (b) Financial Year 2021-2022 (April 2021 to March 2022) in respect of the constituents/utilities of Eastern Region is urgently required:.

- i) The unit wise and station wise monthly energy generation proposed from existing units during (a) Balance period of current Financial Year 2020-2021 with effect from October' 2020 to March' 2021 and (b) Financial Year 2021-2022.
- ii) Annual maintenance program for each of the generating units (thermal and hydro both).
- iii) Generating units under R&M / long outage indicating date of outage and reasons of outage and expected date of return (thermal and hydro both).
- iv) Partial and forced outage figures (in %) of generating units for the last 3 years.
- v) Month wise peak demand (MW) – restricted and unrestricted peak demand.
- vi) Month wise off-peak demand (MW).
- vii) Month wise energy requirement (in MU).
- viii) Month wise & source wise power (both MU & MW) purchase and/or sale plan.
- ix) Schedule of commissioning of new generating units during (a) current Financial Year 2020-2021 with effect from October' 2020 to March' 2021, (b) Financial Year 2021-22 and unit-wise monthly generation program (in MU).
- x) Allocation of power from new generating units.
- xi) Month wise and annual planned outage of transmission system (Transmission lines 220kV and above / ICTs / Reactors/ other elements during (a) current Financial Year 2020-2021 with effect from October' 2020 to March' 2021 and (b) Financial Year 2021-22.

Information may please also be submitted in the form of soft copy through email (mail ID: sldcgridco@yahoo.com / cld\_slde@sldcorissa.org.in).

**Deliberation in the meeting:**

SLDC requested all the concerned to submit their data for the preparation of LGBR by 12<sup>th</sup> Oct 2020.

**C.4: Nomination of nodal persons for communication related to tripping of grid elements, primary frequency response observed at generating stations and Mock Black Start exercise**

For analysis of tripping incident of any grid elements and primary frequency response of generating units in Odisha Power System, high resolution data from various generating stations is required. Also to plan and carry out mock black start exercise, co-ordination between executives of SLDC and OHPC is essential. For smooth communication regarding transfer of data and co-ordination, all the generating stations are requested to nominate at least one officer as nodal person for tripping analysis of any grid element and for primary frequency response analysis of generating units as well as to carry out mock black start exercise. Name, contact number and email address of nominated person may be shared.

**Deliberation in the meeting:**

SLDC advised all the entities to send the name, contact number and email address of nodal persons to the following e-mail ids.

- (i) sldcgridco@yahoo.com
- (ii) psocodisha@gmail.com

[Action: OHPC]

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

In 143<sup>rd</sup> 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.	220kV Sadeipalli-Kesinga D/C line	March'2021
<b>2.</b>	<b>400/220 kV Keonjhar S/S.</b>	
a.	Keonjhar (PG)-Turumunga (220/132 kV) & 220 kV D/C Line.	March 2021
<b>3.</b>	<b>400/220 kV Pandiabil Grid S/s</b>	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C	March'2021

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

**C.6: 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:

xxxxxxx

**Issues relating OPTCL Network:**

**Narsingpur data:**

In the 132<sup>nd</sup> 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 134<sup>th</sup> meeting CGM (Telecom) stated that delivery of OPGW has already been started.

In the 135<sup>th</sup> 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 137<sup>th</sup> PSOC meeting, NALCO stated that the estimate has already been received from OPTCL (Telecom). Approval from higher authority in under process.

In the 139<sup>th</sup> 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 140<sup>th</sup> 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 141<sup>th</sup> PSOC meeting, NALCO stated that the file is under process by their Finance wing.

**Telecom / NALCO may deliberate the status**

**Deliberation in the meeting:**

Representative of NALCO intimated that the file has been sent for administrative approval to their corporate office and the approval is expected within one month. GM (Telecom) informed that the telemetry data of Narsingpur will be available within one month.

**Action[NALCO / Sr.GM (Telecom)]**

**C.7: 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 <sup>th</sup> July19	Last week of January 2020	
3	Rengali	2nd week of June 2019	Done on June'19	Last week of November 2019	Done on 07.03.20
4	U.Indravati	3rd week of June 2019	Done on June'19	2nd week of February 2020	
6	Balimela	3rd week of October	Done on 17 <sup>th</sup> July19	1st week of March 2020	Done on 12.02.20

		2019			
9	Burla	Last week of June 2019	Done on 20 <sup>th</sup> July' 2019	Last week of February 2020	Done on 11.02.20

**Deliberation in the meeting:**

Earlier due to rising trend of Hydro reservoir level and prevailing Covid-19 pandemic situation mock black start exercise of hydro power stations could not be carried out. OHPC suggested to carry out mock black start exercise at Balimela P.H. during October-2020.

**Action[SLDC /OHPC]**

**C.08: 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 SLDC/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.

**Deliberation in the meeting:**

O&M and Construction wing of OPTCL will submit the information to SLDC on regular basis.

**Action[C.GM (Cont) / 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 **August'20:**

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)	Deviation (%)
1	CESU/TPCODL	0	9.850	1.27
2	WESCO	0	-5.538	0.86
3	NESCO	0	6.123	1.41
4	SOUTHCO	0	-1.681	0.53
	<b>Total</b>	<b>0</b>	8.753	1.27

It is noticed that all the DISCOMs have maintained their drawl as per the schedule. Daily drawl profile of all DISCOMs is as indicated in the presentation.

**Deliberation in the meeting:**

The drawl deviation of all the DISCOMs during the month of August is within permissible limits and the operation is satisfactory.

## **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 21<sup>st</sup> 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 16<sup>th</sup> 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 140<sup>th</sup> 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 27<sup>th</sup> December’19 to discuss and finalize the issue.

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

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

Sr. G.M.(Telecom) informed that 14 nos. of RTU panels are ready for dispatch. M/s Chemtrol has requested for waiver of inspection charges claimed by OPTCL. Director (SLDC) assured that he will look into the matter and resolve it at the earliest.

**Action [SLDC /Sr.GM(Telecom)]**

## **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 133<sup>rd</sup> 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 137<sup>th</sup> 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 138<sup>th</sup> PSOC meeting, it was suggested that Telecom may ensure establishment of data communication facility before recommending for connectivity for any Solar Plant.

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

In the 140<sup>th</sup> 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 141<sup>th</sup> 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.

**Deliberation in the meeting:**

G.M.(Telecom) informed that he will submit the status report to SLDC.

**Action [SLDC /Sr.GM(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 139<sup>th</sup> 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 140<sup>th</sup> 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 141<sup>th</sup> 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.

**Deliberation in the meeting:**

GRIDCO informed that all the RE Generators have been informed to submit the day ahead schedule to SLDC since February 2020. PSOC advised SLDC to further pursue the matter with the RE Generators.

**Action [SLDC]**

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

In the 116<sup>th</sup> 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 138<sup>th</sup> PSOC meeting IT stated that software development is under progress and expected to be completed for CESU/TPCODL area energy meters.

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

In the 140<sup>th</sup> 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 1<sup>st</sup> day of the month due to removal of optical fiber link from the meter for data downloading.

**Deliberation in the meeting:**

IT informed that for the month September 2020 the data from all the meters have been downloaded successfully.

**Action [SLDC /IT, OPTCL]**

**D.6: Energy Accounting of Hydro & RE Generators.**

As per the regulatory provisions, energy accounting of all the generators in a control area has to be carried out by the concerned SLDC. So SLDC proposes to compute the energy accounting of all the hydro generators and RE sources from October'2020.

**Deliberation in the meeting:**

PSOC agreed to the proposal of SLDC to compute the energy accounting of all the hydro generators and RE sources from October'2020.

**Action [SLDC]**

**D.7. Replacement/Rectification of Billing meters**

It is observed that some billing meters used for energy accounting purpose are defective and the information regarding these meters has already been shared with O & M.

**Deliberation in the meeting:**

SLDC informed that the list of defective meters have been submitted to O&M. CGM(O&M) assured to take necessary steps for rectification of the defective meters.

**Action [CGM(O&M)]**

**D.8: Utilization of 132 kV LILO line for Kalarangi S/S as 33 kV feeder**

TPCODL is utilizing a part of 132 kV LILO line for Kalarangi S/S as 33 kV feeder, resulting in Goda S/s being connected through "T" arrangement with 132 kV Kamakhya Nagar-Duburi (Old) line. TPCODL may make the line free to complete the LILO arrangement. This issue had been discussed several times in earlier meetings and TPCODL (erstwhile CESU/TPCODL) had assured to make the said 132 kV line free.

**Deliberation in the meeting:**

TPCODL assured that after internal discussion at their end, they will intimate the tentative date to free the 132 kV LILO line for Kalarangi S/S.

**Action [TPCODL/CGM(Const.)]**

**D.9: 220kV Balimela-Upper Sileru line Status:**

Long since the 220 kV Balimela-Upper sileru line is remaining in idle charged condition from Sileru end. Members may discuss how best to utilize the line.

**Deliberation in the meeting:**

Members from SLDC, O&M and GRIDCO deliberated about the idle charged condition of the 220 kV Balimela-Upper Sileru line. Director, SLDC opined that it being an inter-State line, from system operation point of view, the line should remain in service. Further he stated that OPTCL should maintain the line and explore ways to recover the maintenance cost of the line. The members suggested that with due permission from the Competent Authority a proposal may be placed before ERPC for

declaration of the 220 kV Balimela-Upper Sileru line as deemed ISTS so that the maintenance cost of the line can be recovered.

**Action [CGM(O&M)/GRIDCO/SLDC]**

**D.10: Regarding stringing of conductor in 132kV Patangi-Podagada Line**

NALCO has been requested for allowing shutdown of its 11kV water intake feeder for stringing of conductor in 132kV Patangi-Podagada Line which is pending for last ten days.

**Deliberation in the meeting:**

NALCO assured that the matter will be resolved immediately.

**Action [NALCO]**

**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	Name of the Project	Expected month of Charging	DISCOM	33kV Take off Planning by DISCOMs ( 4 Nos. Feeder Bay)
1	220 kV Jayanagar-Jeypore(PG) 2nd DC line			
2	132/33kV (Brajabiharipur) CDA Cuttack S/s	Oct-20	TPCODL	
3	132/33kV Pratapsasan S/s	Oct-20	TPCODL	
4	132/33kV Gandia S/s	Feb-21	TPCODL	
5	132/33kV Rajnagar S/s	Mar-21	TPCODL	
6	220/33kV Telkoi S/s	Dec-20	TPCODL/NESCO	
7	132/33kV Maneswar S/s	Oct-20	WESCO	
8	220/33kV Deogarh S/s	Nov-20	WESCO	
9	132/33kV Bhatli S/s	Dec-20	WESCO	
10	132/33kV Hirakud S/s	Feb-21	WESCO	
11	132/33kV Birmaharajpur S/s	Mar-21	WESCO	
12	132/33kV Thuapalli S/s	Mar-21	WESCO	
13	132/33kV R Udayagiri S/s	Oct-20	SOUTHCO	
14	220/33kV Govindpalli S/s	Oct-20	SOUTHCO	
15	132/33kV G Udayagiri S/s	Dec-20	SOUTHCO	
16	220/132/33kV Gunupur S/s	Jan-21	SOUTHCO	
17	132/33kV Nawrangpur S/s	Feb-21	SOUTHCO	
18	132/33kV Boriguma S/s	Mar-21	SOUTHCO	

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 utilised by DISCOMs	Bays Available for utilisation by DISCOMs	Utilization in %
1	Konark	TPCODL	132/33	29-06-2015	4	1	3	25%
2	Samagara	TPCODL	220/132/33	14-07-2015	5	2	3	40%
3	Marshaghai	TPCODL	132/33	16-10-2015	5	2	3	40%
4	Atri	TPCODL	220/132/33	24-02-2016	4	0	4	0%
5	Mania	TPCODL	132/33	31-03-2016	5	2	3	40%
6	Infocity-II	TPCODL	220/33	23-12-2016	6	3	3	50%
7	Chandaka - B	TPCODL	220/132/33	28-03-2017	4	0	4	0%
8	Khajuriakata	TPCODL	132/33	28-03-2017	5	2	3	40%
9	Tirtol	TPCODL	132/33	05-01-2018	5	2	3	40%
10	Dhenkikote	TPCODL	132/33kV	24.02.2018	5	2	3	40%
11	Khuntuni	TPCODL	132/33	31-05-2018	5	2	3	40%
12	Narasinghpur	TPCODL	220/33	24-08-2018	5	3	2	60%
13	Unit-8	TPCODL	132/33	01-04-2019	5	3	2	60%
14	Kharagprasad	TPCODL	132/33kV	31.07.2019	1	0	1	0%
15	Mancheswar B	TPCODL	132/33kV	28.02.2020	5	0	5	0%
16	Goda	TPCODL	220/132/33kV	29.05.2020	5	0	5	0%
17	Satasankha	TPCODL	132/33kV	25.06.2020	5	0	5	0%
18	Malkangiri	Southco	220/33	27-03-2017	4	2	2	50%
19	Muniguda	Southco	132/33	29-11-2017	4	0	4	0%
20	Podagada	Southco	132/33	09-02-2018	4	2	2	50%
21	Chikiti	Southco	132/33	25-02-2019	5	2	3	40%
22	Aska New	Southco	220/132/33	31-03-2019	5	1	4	20%
23	Kasipur	Southco	220/33	30-06-2019	4	1	3	25%
24	Patangi	Southco	132/33	15-09-2019	4	2	2	50%
25	Bangiriposi	Nesco	132/33	03-10-2016	4	2	2	50%
26	Bhogarai	Nesco	132/33	28-03-2017	4	1	3	25%
27	Udala	Nesco	132/33	16-09-2018	5	3	2	60%
28	Keonjhar	Nesco	220/33	31-12-2018	5	2	3	40%
29	Chandbali	Nesco	132/33	20-02-2019	4	1	3	25%
30	Betanati	Nesco	132/33	19-04-2019	4	2	2	50%
31	Agarpada	Nesco	132/33	30-08-2019	5	1	4	20%
32	Jayapatana	Wesco	220/132/33	11-07-2019	4	2	2	50%
33	Kantabanji	Wesco	132/33	28-02-2018	5	2	3	40%
34	Baragarh New	Wesco	220/132/33	21-03-2018	1	0	1	0%
35	Ghens	Wesco	132/33	13-04-2018	4	4	0	100%
TOTAL					154	54	100	35%

In the 140<sup>th</sup> 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 141<sup>th</sup> 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.

**Deliberation in the meeting:**

TPCODL informed that they have prepared the report in this regard and have submitted the same to the MD, OPTCL. NESCO informed that out of 31 nos. of bays 12 nos. have already been utilized and another 9 nos. are under progress and for others the estimation is being prepared.  
 SLDC requested all the DISCOMs to share the updated plan and report with CGM(Const.), OPTCL and SLDC as well.

**Action [DISCOMs/CGM(Const.)]**

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

1. On Dt. 06.08.20 at 17:20 Hrs -Unit #1(8MW) of BPPPL (Baitarani Power Project Pvt Ltd) synchronized with the Grid (M/s BPPPL connected to Grid S/S Anandpur through 132 kV SC Line).
2. On Dt. 06.08.20 at 19:21 Hrs- 315 MVA, 400/220 kV ICT-II at Tata Steel Ltd, Kalinganagar S/S charged.
3. On Dt. 07.08.20 at 13:37 Hrs -Unit #2(8MW) of BPPPL (Baitarani Power Project Pvt Ltd) synchronized with the Grid (M/s BPPPL connected to Grid S/S Anandpur through 132 kV SC Line).
4. On Dt. 07.08.20 at 16:27 Hrs- 315 MVA, 400/220 kV ICT-I at Tata Steel Ltd, Kalinganagar S/S charged.
5. On Dt. 14.08.20 at 13:24 Hrs - 40 MVA, 132/33 kV Power Transformer- II charged at Grid S/S, New Bargarh.
6. On Dt. 15.08.20 at 01:09 Hrs - 132 kV Tusura-Deogaon RTSS charged.
7. On dt. 21.08.20 at 00:25 Hrs: - Unit #3(8MW) of BPPPL (Baitarani Power Project Pvt Ltd) synchronised with the Grid (M/s BPPPL connected to Grid S/S Anandpur through 132 kV SC Line).

**[Members may note]**

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

On Dtd. 03.08.2020 at 16:17 Hrs, 220kV Rengali switchyard (OPTCL)- Tarkera S/C tripped due to B Phase to Earth fault. At 16:58Hrs, 220kV Rengali switchyard (OPTCL)- Barkote S/C tripped due R & Y Phase fault. At 17:17 Hrs, 220kV Rengali switchyard (OPTCL)- Rengali (PG) Ckt-2 tripped due to Y & B phase fault. At 17:35 Hrs, 220kV Rengali switchyard (OPTCL)- Rengali (PG) Ckt-1 tripped due to B phase fault. At the same time 220kV TSTPP- Rengali P.H. S/C tripped from TSTPP end resulting in complete power failure at 220kV Rengali switchyard (OPTCL) and at 220kV Rengali PH. All running units at Rengali P.H. tripped due to loss of evacuation path.

**[Members may note]**

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

Sl No	Transmission line / element	Tripping Dt/time	Restoration Dt/time	Reason
1	132kv Lapanga-Jharsuguda feeder	02.08.20 00:33	03.08.20 15:13	Due to snapped jumper
2	132KV Nuapatna-Khajuriakata-Denkhanal 'T' line.	02.08.20 22:43	03.08.20 09:43	Distance relay tripped, zone 2, 46.06kms
3	220kV Atri-Narendrapur Ckt-II	13.08.20 15:36	14.08.20 17:14	B Phase insulator damaged at Loc No-428.
4	220 kV Tarkera-Bonai Feeder	15.08.20 16:39	16.08.20 12:22	R Phase Suspension Insulator damaged at Loc.

				610.
5	220/132kV 100 MVA Auto Tfr- I at Tarkera	20.08.20 18:02	21.08.20 09:56	Tripped on Bucholz Relay
6	132KV Balasore-Udala feeder	26.08.20 17:15	27.08.20 13:58	Suspension insulator string punctured at Loc no-76 (R & Y) and 77 ( R, Y & B).

[Members may note]

#### E.5: Prolonged outage of Transmission elements

Sl No	Transmission line / element	Date of outage	Reason	Expected date of restoration
1	220 kV Samangara - Pandiabil ckt -I &II	03.05.2019	Tower Collapsed during cyclone FANI	Project handed over to PGCIL (20 months)
2	100 MVA Auto-II at Grid S/S, Duburi	08.03.2020	Tripped on Buchholz alarm and differential protection.	Problem in tertiary winding as per E&MR wing. (Jan-2021)
3	132 kV Chandaka -BPPL feeder	11.07.2020	Erection & Commissioning of 4 Nos of PA type interposing towers in view of low ground clearance	Work in progress. Expected to be charged in the 2nd week of September-2020.

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

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

Tentative Outage programme for State Generators for the month of **October'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 continue	T&G cover water leakage Under R, M & U Under R, M & U Annual Maintenance
2	Balimela	# 1 # 2 # 4	05.08.16 to continue 20.11.17 to continue 02.03.20 to continue	Under R&M Under R&M Problem in PMG
4	U. Kolab	# 3	07.01.20 to continue	Generator Bearing Temp. High

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

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

Name of Hydro Gen. Station	Generation Program (MW)		Reservoir Level as on 01.09.2020	Reservoir Level as on 01.09.2019	MDDL	High Flood Reservoir Level
	Oct'20 (1 <sup>st</sup> fortnight)	Oct'20 (2 <sup>nd</sup> fortnight)				
HPS-I, Burla	100	100	625.91 ft.	622.93 ft.	590 ft.	630 ft.
HPS-II, Chiplima	50	50			-	-
Balimela	300	300	1496.5 ft.	1491.70 ft.	1440 ft.	1516 ft.
Rengali	240	240	123.8 mtr.	122.08 mtr.	109.72 mtr	123.5 mtr.
U.Kolab	100	100	850.54 mtr.	853.43 mtr.	844 mtr	858 mtr.
U. Indravati	350	350	636.86 mtr.	640.38 mtr.	625 mtr	642 mtr
MKD (O/D)	40	40	2739.2 ft.	2745.85 ft.	2685 ft.	2750 ft.
<b>TOTAL</b>	<b>1180</b>	<b>1180</b>				

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

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

Sl. No	Discom	Average	Peak
1	CESU/TPCODL	1100	1300
2	WESCO	1050	1150
3	NESCO	800	950
4	SOUTHCO	470	550
<b>5</b>	<b>Total Discom</b>	<b>3400</b>	<b>3950</b>
	<b>System Loss &amp; others</b>	<b>100</b>	<b>150</b>
	<b>Total Demand</b>	<b>3500</b>	<b>4100</b>
<b>Availability</b>			
1	Hydro	1180	1350
2	State Thermal	910	910
3	IPP, small hydro &RE	820	780
4	ISGS share (including OA& purchase)	900	1000
5	CGP support (OA)	300	300
6	<b>Total availability</b>	<b>4110</b>	<b>4340</b>
7	<b>Surplus / Deficit</b>	<b>610</b>	<b>240</b>

**PART F: OTHER ISSUES****F.1: Agenda of NESCO:**

- (i) Data suspect for Joda Grid, Jajpur Town Grid, Rairangpur Grid, Bangiriposi-Kalabadia feeder.
- (ii) As RVDU shows suspected data, it is quite unpredictable to know the exact drawl schedule position for that suspected data. Therefore it is requested to reflect the normal loading position for the above suspected data.
- (iii) There is huge difference of 15-22MU between RVDU drawl data and actual drawl data since last two-three months, due to which it is difficult to maintain the minimum deviation at the end of the month.
- (iv) 132/33KV Dhenkikote, 132/33KV Chandabali, 132/33KV Agarpada Grid data are to be incorporated in the RVDU.

**Action [Sr.GM, Telecom]**

**F.2: Energisation of Govindpalli Substation**

T connection in the 220 kV Balimela-Jayanagar Ckt.-I will be made to energise Govindpalli S/s to which Generator of Avantika power will be synchronized

**[Members may note]**

<b>Participant List in the 143<sup>rd</sup> PSOC virtual meeting held on 07.10.2020.</b>		
<b>Sl. No.</b>	<b>Name</b>	<b>Designation &amp; Organisation</b>
1	Er. B.B. Mehta	Director(SLDC) Cum CLD, SLDC
2	Er. R.L. Panda	Director(Projects) OPTCL
3	Er. P.K. Satapathy	Sr. GM(EL), SLDC
4	Er. S.K. Harichandan	C.G.M (O&M)
5	Er. G.C. Pati	C.G.M (Construction)
6	Er. B.K. Das	C.G.M (RT&C)
7	Er Manoranjan Biswal	Director(Operation), OHPC
8	Er. K. Trpati Rao Achary	Sr.G.M.(Telecom), OPTCL
9	Er. B.D. Panda	DGM(Elect.), SLDC
10	Er. S.K. Mishra	DGM(Elect.), SLDC
11	Er. D.P. Kar	AGM(Elect.), SLDC
12	Er. P.K. Das	C.G.M, GRIDCO
13	Er. Madhusudan Sahoo	DGM(EL), GRIDCO
14	Er. A.K Mohanty	DGM(EL), OHPC
15	Er. Shaswati Mohapatra	DM(EL), GRIDCO
16	Er. P.K. Nayak	G.M.(Telecom), OPTCL
17	Er. C.R. Mishra	DGM(EL), OPTCL
18	Er. Chintamani Tipnis	Power System Control Centre, TPCDDL
19	Er. Banishree Pradhan	AGM(Elect.), RT&C, OPTCL
20	Er. Sukanta Kumar Sethy	AGM(Elect.), SLDC
21	Er. Anil Patra	WESCO
22	Er. S.C. Mahalik	GM, NESCO
23	Er. S.K. Ahamad	GMR
24	Representative	OPGC
25	Er. Sonali S. Patra	AM(IT), OPTCL
26	Er. S.K. Mishra	BPPL
27	Er. Rajesh Prasad Sahoo	Dy. Manager, SLDC
28	Er. Subhrajit Behera	Dy. Manager, SLDC
29	Er. Pradeep Kumar Mohanty	Dy. Manager, SLDC
30	Er. Suchi Smita Sahoo	Dy. Manager(EL), SLDC
31	Er. Pankajini Samal	A.M. (IT), SLDC