

Odisha Power Transmission Corporation Ltd.
Bhubaneswar.



Agenda
for
89th Power System Operational Coordination Meeting

Date: 29.08.2015
Venue: PTC, Chandaka

Odisha Power Transmission Corporation Ltd. Bhubaneswar.

Agenda for 89th PSOC Meeting to be held on 29.08.2015 at PTC, Chandaka

A1: Confirmation of the minutes of the 88th PSOC Meeting held on 29.07.2015

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2015/3203⁽³⁰⁾, dated 19.08.2015 to all the members and also uploaded in the SLDC website. No comment has been received from any of the members.

Members may offer their comments. If there is no comment, the minutes of the meeting may please be confirmed.

PART B: GRID PERFORMANCE

Review of Grid Performance for the month of June'15 & July'15.

(A) Frequency:

Hourly frequency variation for the month of June'15 & July'15.

Month	% of time frequency remained				
	<49.00	49.00-49.70	49.70-49.90	49.90-50.05	>50.05
June'15	0.00	0.09	7.00	58.88	34.04
July'15	0.00	0.09	8.22	66.01	25.69

Maximum & Minimum frequency during the month of June'15 & July'15.

Month	Freq (Hz)	Date	Time
June'15	Maximum – 50.56	13.06.15	15:04 Hrs
	Minimum – 49.60	26.06.15	19:15 Hrs
July'15	Maximum – 50.23	26.07.15	06:00 Hrs
	Minimum – 49.65	13.07.15	14:30 Hrs

(B) Grid Demand for the month of May'15 & June'15.

Month	Demand		Maximum Consumption		Maximum Demand			Minimum Demand		
	MU	Avg. (MW)	MU	Date	MW	Date	Time	MW	Date	Time
June'15	2279	3165	83.71	10.06.15	3974	09.06.15	21:00	2491	22.06.15	14:00
July'15	2337	3141	79.59	05.06.15	3994	04.07.15	21:00	2431	25.07.15	16:00
July'14*	2139	2875	74.01	09.07.14	3644	06.07.14	21:00	2110	21.07.14	04:00

Members may please discuss.

(C) Voltage Profile of 220 kV Buses in OPTCL system for the month of July'15

Sl. No	S/s Name	Maximum			Minimum		
		kV	Day	Time	kV	Day	Time
1	Jayanagar	243.35	10	23:00	225.33	3	17:45
2	Theruvalli	236.76	9	13:15	211.71	3	18:45
3	Bhanjanagar	233.76	26	01:15	217.25	14	11:45
4	Chandaka	230.76	17	23:30	207.84	14	12:00
5	Narendrapur	221.12	3	14:30	179.90	29	19:15
6	Joda	244.67	27	00:30	227.18	14	21:15
7	Tarkera	236.53	6	11:00	223.72	07	15:00
8	Bhadrak	226.26	28	04:00	174.12	15	21:30
9	Paradeep	237.40	28	05:15	192.77	18	21:15
10	Budhipadar	232.15	11	01:45	215.81	04	01:45
11	Duburi	238.67	28	05:15	203.97	18	21:15
12	Balasore	237.46	27	03:45	197.04	15	21:45
13	Meramundali	228.97	27	04:30	216.90	04	21:30
14	Bidanasi	232.15	17	23:45	215.52	30	19:15
15	Katapalli	236.65	04	00:30	215.35	16	19:45
16	Nayagarh	230.93	26	15:00	179.72	02	11:00
17	Mendhasal	232.20	08	18:30	212.11	14	12:15
18	Bolangir	246.29	4	00:15	204.26	31	20:45
19	Barkote	233.99	27	03:45	227.53	30	09:30

The maximum voltage of 246.29 kV, 244.67 kV and 243.35 kV occurred at Bolangir, Joda & Jaynagar 220 kV bus while Bhadrak, Nayagarh and Narendrapur 220 kV bus have experienced the minimum Voltage of 174.12 kV, 179.72 kV and 179.90 kV respectively.

Members may discuss.

(D) Energy Generation / Import during the month of July'15

Source of Power	Energy (MU)
Thermal (TTPS+IB)	513.57
OHPC Stations including Machhkund share	620.39
IPP & CGP Support	645.21
ISGS drawal	557.66
TOTAL	2336.84

(E) Drawal of Machhakund Power

The drawal of Machhakund power during the month of July'15 was **24.036 MU** against AP drawal of **26.266 MU**. Total generation was 52.6518 MU.

In the last meeting, Sr. G.M (PS) stated that Machhakund generation was reduced due to shutdown of Machhakund units from 19.05.15 to 10.06.2015. Machhakund has extended power supply from 16.06.2015 only. Although agreed by Machhakund authority earlier, SLDC is not being allowed to draw more power in off-peak period to compensate State's under drawal during peak period. OHPC / Gridco may take up the matter with Machhakund authority in this regard. It is also noticed that Jayanagar S/S is not exploring optimization of State's drawal by providing matching load on real time basis.

Gridco stated that AP is unwilling to avail full Machhakund share at present. Southco Utility stated that work for connecting 33 kV Gumuda feeder with Akhusing S/S is under progress. The work is being delayed due to construction of pile foundation for river crossing locations. It was decided that Sr. G.M (Telecom) shall explore the display of Machhakund generation at Jayanagar S/S to enable them for optimizing State's drawal. OHPC shall convene a meeting between Machhakund authority, Gridco, OPTCL and SLDC soon.

Tap changer of power transformers may be used to optimize Machhakund drawal. It is noticed that Grid S/Ss are not using the Tap changer facility on real time basis for regulating drawal. They may be instructed to utilize the same and also ensure healthiness of the Tap changer.

Gridco / OHPC / OPTCL / Southco Utility may deliberate.

(F) DISCOM Drawal up to the month of July'15

Name of DISCOM	Month	Approved Energy Drawal Prorated for the month (MU)	Scheduled Energy (MU)	Actual Energy Drawal (MU)	Open Access Import Schedule (MU)	Net Energy Drawal (MU)	Overdraw (MU)
		1	2	3	4	5=(3-4)	6=(5-2)
CESU	April'15	721.644	676.468	700.852	3.892	696.96	20.492
	May'15	745.699	741.683	803.331	4.582	798.749	57.066
	June'15	721.644	680.782	731.303	4.094	727.209	46.427
	July'15	745.699	682.482	747.814	4.552	743.262	60.78
WESCO	April'15	604.11	569.419	692.842	124.592	568.25	-1.169
	May'15	624.247	608.011	742.524	132.217	610.307	2.296
	June'15	604.11	571.331	677.972	107.811	570.161	-1.17
	July'15	624.247	550.147	716.622	102.587	614.035	63.888
NESCO	April'15	431.507	412.235	432.73	17.888	414.842	2.607
	May'15	445.890	452.964	475.162	19.32	455.842	2.878
	June'15	431.507	428.938	458.649	23.262	435.387	6.449
	July'15	445.890	429.905	462.235	29.387	432.848	2.943
SOUTHCO	April'15	281.096	275.391	264.684	0	264.684	-10.707
	May'15	290.466	277.641	285.102	0	285.102	7.461
	June'15	281.096	253.054	263.675	0	263.675	10.621
	July'15	290.466	282.015	285.292	0	285.292	3.277

The above figures are as per EBC data. Energy drawal by SOUTHCO are excluding of energy consumed by NALCO at Damanjodi and IMFA at Theruvali.

Members may please discuss

(G) Under Frequency Relay operation in OPTCL System during the month of July'15.

Since the frequency had never gone beyond the lowest setting of UFR, there was no UF Relay operation occurred during the month of July'15.

Members may note

PART C – issues raised in 112th OCC meeting of ERPC held on 21.08.15

C1: Furnishing data on Power Purchase Agreements (PPA)

You are aware that Central Electricity Authority has been collecting data from different sources on various aspects of the power sector, to disseminate the information to all the stakeholders of the sector. As a part of the process, CEA decided to build a data base on Power Purchase Agreements (PPAs) which are required for assessing the installed generation capacity available in the states. Accordingly, a format was devised to collect the data from all the DISCOMs on a regular basis, for analysis and report on various PPA- related issues. The format is given at Annexure-B.7. This data would be used to make policy decisions for the overall development of the power sector and to bring out a quarterly publication for stake-holder benefit.

Therefore, constituents are requested to furnish the details of PPAs (long, medium and short term) from existing and proposed power plants as per the format to CEA by mail (email: rmrao@nic.in and rstomar@nic.in) with a copy to this office by mail (mserpc-power@nic.in).

Gridco may take necessary action for submission of information in the required format.

C2: Meeting/ Interaction with Consultants for Task-I: To study the status of implementation of recommendations of enquiry committee by the Consultant

Second Grid Study Committee (GSC) meeting was held at NLDC, New Delhi on 16th July, 2015 to finalize the modalities for implementation of the review of protection audit by the joint venture of M/s Tractabel, Romania, M/s Tractabel, India and M/s Lehmyer International Private Limited, India. In the meeting, it was decided that M/s Tractabel the Lead Partner would be mainly responsible for Task-I i.e. to study the status of implementation of recommendations of Enquiry Committee. The Questionnaire for Task-I, the latest status of implementation of Enquiry Committee recommendations pertaining to Eastern Region are circulated to all the nodal officers vide letter dated 07-08-2015 and also available in ERPC website.

In the meeting it was also decided that for Task-I the consultant will interact with each RPC and its constituents for seven days. Accordingly, the tentative schedule was prepared and the committee decided to visit ERPC from 31st August, 2015 to 4th September, 2015.

In view of above, respective nodal officers update latest status of implementation of Enquiry Committee recommendations under your control area and submit to ERPC at the earliest. The tentative schedule for interaction with constituents is as given below:

- 1) 31.08.2015- OPTCL, GRIDCO, OPGC, OHPC, CESU, WESCO, NESCO, SOUTHCO, IPPs of Odisha
- 2) 01.09.2015- WBSETCL, WBSEDCL, WBPDC, CESC, DPL, Sikkim
- 3) 02.09.2015- DVC, BSPTCL, SBPDCL, JUSNL, JBVNL, JUUNL, TVNL
- 4) 03.09.2015- NTPC, NHPC, Powergrid / CTU, other IPPs
- 5) 04.09.2015- ERLDC, ERPC

Nodal officer of DISCOMs / OPTCL / SLDC / OHPC / OPGC / NTPC / IPP are requested to attend the meeting at ERPC as per the schedule

C3: On-site Protection Audit by the Consultant to conduct the study/ Analysis to ensure Secure and Reliable Operation of National Grid – Submission of Check List.

Second Grid Study Committee (GSC) meeting was held at NLDC, New Delhi on 16th July, 2015 to finalize the modalities for implementation of the review of protection audit by the joint venture of M/s Tractabel, Romania, M/s Tractabel, India and M/s Lehmyer International Private Limited, India. In the meeting, it was decided that M/s Tractabel will carry out the onsite Protection audit of the 15 shortlisted substations of the Eastern Region. List of substations is enclosed at Annexure-B13.

The consultant also submitted the format of checklist and a format of bus bar and breaker failure protection details to be filled up by the respective constituents. The formats are already circulated to respective nodal officers vide letter dated 31-07-2015 and the softcopy of the format is also available in ERPC website www.erpc.gov.in.

Nodal officers are requested to fill the audit checklist of your respective substation as per the format available in ERPC website and submit to GM, NLDC and CE(GO), CEA with a copy to ERPC Secretariat by 17th August, 2015 so that M/s Tractabel can start the proceedings for onsite protection audit of Eastern Region.

1. 400 / 220kV Indravati sub-station – OHPC
2. 400 / 220kV Mendhasal sub-station – OPTCL
3. 220 / 132kV Tarkera sub-station – OPTCL
4. 220 / 132kV Joda sub-station – OPTCL

OPTCL / OHPC are requested to submit the data in the format available in ERPC website.

C4: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s

PGCIL has already commissioned the 2x315MVA 400/220kV Bolangir S/s by LILOing of 400kV 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 110th OCC, OPTCL updated the completion schedule of inter-connecting system as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	2 X 315MVA 400/220kV Bolangir S/s	
a.	LILO of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir S/S.	Severe ROW problem
b.	LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S.	End of July'2015
2.	400/220 kV Keonjhar S/S.	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	Yet to be awarded
b.	Keonjhar (PG)-Turumunga (OPTCL) 220 kV D/C Line.	Yet to be awarded
3.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C line	It will take 1 year for completion.
b.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	End of July, 2015.

The status of item 1(b) as deliberated in the OCC is October'15, while the other item status remains unchanged.

CGM (Const) / CGM (O&M) may please deliberate

C5: Third Party Protection Audit

Status of 1st Third Party Protection Audit:

The compliance status of 1st Third Party Protection Audit observations is as follows:

Name of Constituents	Observations	Total Complied	% of Compliance
Odisha	59	27	45.76

As deliberated in the OCC, OPTCL have complied 34 Nos observations out of total 49. The balance 10 nos belong to OHPC and handed over the details of compliance to Member Secretary.

CGM (O&M) / OHPC may please deliberate.

C6: Pollution mapping for Eastern Region

The Pollution Mapping work in ER was started with on-site measurement of ESDD and NSDD. The latest available status is as follows:

Utility	Scope	Installed Locations	No. of locations where 1st set of Measurements Completed	Remarks
OPTCL	164	102	82	Work is in progress.

It was deliberated in the OCC that OPTCL have completed measurement of 87 nos of locations.

CGM (O&M) may please update.

C7: Mock Black start exercises in Eastern Region – ERLDC

Sl. No.	Name of Hydro Station	Schedule (1 st)	Tentative Date	Schedule (2 nd)
1	U.Kolab	Last week of May, 2015	Done on 16/07/2015	Last Week of January, 16
2	Rengali	2 nd week of June 2015	August, 15	Last week of November, 15
3	U. Indravati	3rd week of June 2015	Done on 16/07/2015	2 nd week of February 2016
4	Balimela	1 st week of November, 15		1 st week of March 2016
5	Burla			

In the OCC meeting of ERPC, it was deliberated that mock black start exercise in respect of Rengali shall be conducted during September'15.

A procedure for conducting mock black start exercise for Burla PH need to be developed by SLDC in coordination with OHPC.

SLDC / OHPC may deliberate.

C8: TTC calculations by States--ERLDC

As per CERC regulation, states are supposed to declare their respective TTCs on a monthly basis. ERLDC had interacted with WBSETCL and DVC and their import TTC corresponding to summer 2015 had been jointly estimated, in the course of explaining them the procedure. But they are not yet declaring these figures officially.

On the other hand BSPTCL, JUSNL, OPTCL have not even responded to this issue.

In 13th FOLD meeting all SLDCs are agreed to take up the process of estimating import and export ATC/TCC on regular basis. Further, ERLDC requested SLDC to compute the same vide letter dated 3rd Feb, 2015 and 10th August, 2015. The letter is enclosed at Annexure-B.35.

SLDCs are requested to compute and publish ATC and TTC on monthly basis in their website clearly stating the assumptions and limiting constraints. A sample format may be found at Uttar Pradesh Power Transmission Corporation Limited website at following link: http://upptcl.org/pdfs/ttc_06042015.pdf.

SLDC may deliberate the status.

C9: Restoration of SCADA data

Updated latest status is circulated in the meeting. During deliberations in 99th OCC it was pointed out by most of the constituents that SCADA problem in many locations are due to behind the schedule progress of work on the part of CTU/PGCIL. OCC advised Powergrid / CTU to expedite and restore at least the priority RTUs by 31st July, 2014.

Updated status as updated in SCADA meeting which was held on 28th January'15 is circulated in the meeting.

The status as updated in the SCADA meeting is as given below:

i) List of additional elements/feeders whose data is not available – station under ULDC project:

Sl no	Name of Utility	KV	Name of station	Reason for non-reporting	Latest status
1	OPTCL	220	Vedanta (9x135 MW)	No status points are available.	No isolator status are available. MW/MVAR not available for Sterlite 1/2 line, station transformer / Smelter. CBs of Bus coupler not available. Bus-1 KV/ HZ not available. Problem still not resolved

iv) The updated status of telemetry of OPTCL Sub-Stations under ULDC project is project as given below:

S/n	Name of RTU Locations	Latest status
1	Nalco	OPTCL informed that RTU is reporting but intermittent since it was not configured properly. The issue was already taken up with Nalco and it will be resolved soon. OPTCL has resolved the issue. Some Unit generation polarity will be resolved by Feb 2015. Problem still not resolved

v) RTU telemetry provided but data are intermittent / new element not wired.

SL No	Name of station/ Utility	Reason for non reporting	Latest status
II	JSPL (Meramundali - 400)	Most of the data not available.	OPTCL informed that they are taking matter with JSPL. Problem still not resolved

In the last meeting Vedanta Limited stated that materials are expected to be received from ABB by August and completion of work is expected by Sept'15.

OPTCL stated that they have resolved the issue. Reversal of CT polarity for two Nos. of units has to be done by NALCO. GCC may write to NALCO in this regard.

It was decided that O&M may not issue Technical clearance for open access transaction in favour of the CGPs till compliance of data communication.

Sr. G.M. (Telecom.) / GCC / OPTCL / NALCO / Vedanta / JSPL may deliberate.

C10: Status of commissioning of generating station and transmission elements

New transmission elements:

Sl No.	Name of Element	Expected date
7	LILO of Baripada-Mendhasal D/C at New Duburi	August'2015
11	400 kV Meramandali-Dubri D/C	August'2015
12	400 kV IB-Meramandali D/C	October' 2015
14	220 kV Bidhansai-Cuttack D/C	March'2016

C.G.M. (Const.) may deliberate.

PART-D – Operational Issues

D1: Non-compliance of drawal schedule by DISCOMs

Non compliance of drawal schedule messages issued to Discoms during the month of July'15:

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)
1	CESU	26	60.78
2	WESCO	39	63.89
3	NESCO	13	2.94
4	SOUTHCO	5	3.28
	Total	83	130.89

It is noticed that WESCO & CESU had overdrawn a substantial quantum of power to the tune of 63.89 MU & 60.78 MU respectively during the month. Southco & NESCO had also overdrawn appreciable quantum during the month. It was also noticed that CESU was continuously overdrawing since last five months. As stated by CESU that they are predicting the drawal from the SCADA data.

In the last meeting, it was decided that average power drawal of those S/Ss not integrated in the SCADA shall be incorporated to ascertain Discoms' drawal.

SLDC/ Discoms may please deliberate.

D2: Availability of data of real time power flow of feeders covered under Under-frequency Load shedding scheme (UFLS) and lower relief expected to obtained in real time system operation

In the last meeting Sr. G.M. (Telecom) stated that Cable has already been reached at site. Expected to be completed by Sept'15. Sr. G.M (PS) stated that 33 kV Banki feeder may be replaced by any other feeder as drawal of the feeder has been reduced.

Sr. G.M. (Telecom) / OPTCL may please update the status.

D3: Non compliance of Grid Code provision.

It is noticed that OHPC is availing shutdown of its unit without prior approval of SLDC. Even though, the planned shutdown is being approved earlier by SLDC, it is required to obtain approval for outage of generating units / Transmission elements while isolating from the Grid as per provision of OGC Regulation 5.8(5) which states;

“Not withstanding provision in any approved outage plan, no cross boundary circuits or generating units of a generator shall be removed from service without specific release from SLDC. This restriction shall not be applicable to individual generating unit of a CGP”

OHPC may deliberate

D4: Revival of Station Transformer for Station Auxiliary supply at Balimela HEP.

It was suggested to keep minimum number of ckts in service while of low generation at Balimela to reduce Var injection. Also it was suggested to avoid keeping two units in synchronization with minimum generation (10 MW each) to meet the auxiliary requirement in contingency conditions, even though DG set is available.

Although it was agreed in the last meeting by OHPC to keep one unit of Balimela synchronized and one No. 220 kV ckt during low generation period as per SLDC direction, it is noticed that BHEP is not complying the same.

Members may discuss / OHPC may deliberate.

D5: Prolonged outage of transmission elements and tentative revival dates

Sl.No	Name of transmission element	Reason of outage	Probable date of revival
1	220kV Jayanagar-Theruvali ckt-III breaker	Breaker defunct	August 2015
2	220/132 kV, 100 MVA Auto-II at Duburi	After inspection by repairer, date can be ascertained	Spares received. Work will be taken up after rainy season.
3	220/132 kV, 100 MVA Auto-I, Joda		
4	220/132 kV, 100 MVA Auto-I, Bhadarak		
5	220kV Budhipadar-Tarkera ckt.-I		

C.G.M. (O&M) may please update the status.

D6: Communication issues

(i) Installation of communication equipment by CGPs / Industries.

The status of data communication from CGPs as deliberated in the last meeting is as follows

Sl. No	Name of CGP	Present status
1	M/s IFFCO, Paradeep	Outdoor commissioning work completed. Testing of DPLC is in progress. M/s. AREVA has been instructed for commissioning of RTU.
2	M/s MSP Mettalicks	PLCC / RTU installed. Database has already been prepared by OPTCL. Final RTU integration with OPTCL system by the vendor is awaited.
3	M/s NINL, Duburi	M/s NINL has requested for Scheme, BOQ for PLCC / SCADA, which has been forwarded by OPTCL. No action has been taken by NINL so far.
4	M/s Adhunik Metalliks	PLCC & RTU installed. Database has prepared by OPTCL. Commissioning of RTU is yet to be done.
5	M/s Rohit Ferrotech	PLCC established and inspection by Telecom Engineers completed. Data base has already been prepared by OPTCL.
6	M/s VAL, Jharsuguda	No isolator status is available. MW/ MVAR not available for Sterlite 1&2 line, station transformer / Smelter. CBs of Bus coupler data, Bus-1 kV/Hz are not available. As per MOM between OPTCL & Sesa Sterlite, Jharsuguda dtd 22.09.2014, provision for telemetry data will be extended within 6 months (March,2015). The CGP is not responding. VAL intimated that data shall be made available in all respect by July, 2015.

It was decided in the last meeting that Member Secretary GCC shall write to the defaulting CGPs for compliance of data communication provisions. OPTCL, while issuing Technical clearance shall consider the provisions also.

GCC / O&M / Sr. G.M. (Telecom.) may please deliberate.

(ii) Availability of Tap position of 400kV ICTs at Meramundali.

It is noticed that tap position of Meramundali ICTS are not available for SCADA display.

Sr. G .M (Telecom) stated that TPI for Meramundali ICT has already been procured. The work is expected to be completed by August'15.

Sr. G.M. (Telecom) may update.

(iii) Availability of data at SLDC.

The data for

- Auto loading of 220/132 kV, 100 MVA Mendhasal S/S.
- Power flow through 132 kV Paradeep- Jagatsinghpur ckt.

In the last meeting Sr. G.M. (Telecom) stated that acquisition of data for the above transmission elements shall be done by end of August15.

Sr. G.M. (Telecom) may please deliberate.

(iv) Interruption of SCADA.

It is noticed that there is frequent interruption of SCADA System, resulting problem in real time operation. Action may be taken to avoid such frequent interruption of SCADA.

In the last meeting, Sr. G.M (Telecom) stated that Powergrid link between Rourkele-Kaniha is being used for data transfer. The link is not healthy due to heavy fibre loss. Powergrid have proposed to upgrade the existing SDH equipment to STM16. Work order has already been awarded.

Sr. G.M. (Telecom) may please update the status.

(v) Integration of new element.

M/s SSL-SEZ became a consumer of WESCO Utility with effect from 20.03.2015 and importing power through intra State open access from its CGP at Jharsuguda as well as from other utility. The drawal of SSL-SEZ needs to be integrated to SCADA to ascertain WESCO Utility drawal and State demand on real time basis. Since the SSL is reporting to ERLDC, Sr. G.M (Telecom) may write to ERLDC for integration of SSL-SEZ drawal in to the SCADA.

At present generation data of SSL-IPP connected with State Transmission System is being received through ERLDC. But most of the times the data become suspected. SEZ drawal date is yet to be received. However, the calculated figure is being displayed. Sr. G.M (Telcom) may write to SSL to transmit uninterrupted date of IPP generation as well as integrate SEZ drawal to ERLDC.

In the last meeting, Sr. G.M (Telecom) stated that M/S SSL is yet to respond. It was decided that SLDC and OPTCL, while issuing Technical clearance shall consider the provisions also.

Sr. G.M. (Telecom) / SLDC may please update.

D7: Display of dashboard data.

On receipt of feedback from Dist. Utilities, IT representatives have made a demo at SLDC in presence of all Discoms, Telecom and SLDC, wherein some modifications were suggested. However, the dashboard display is functioning satisfactorily.

The status of lease line of all Discoms as deliberated in the meeting are as detailed.

Sl. No	Dist. Utility	Status of leased line	Remarks
1	CESU	Already connected. RVDU commissioned	Data display available
2	WESCO	Required amount deposited with BSNL	
3	NESCO	Already connected. RVDU commissioned	Data display available
4	SOUTHCO	Already connected. RVDU commissioned	Data display available

In the last meeting CGM (IT) stated that, IT representative had visited all four Discoms and found that the newly developed Dashboard is functioning satisfactorily. NESCO, WESCO and SOUTHCO have also issued certificate in this line. CESU stated that the Dashboard is functioning satisfactorily except some missing data. It was decided that the Dash board shall be kept in parallel with RDVU for three months.

CGM (IT) / Sr. G.M (Telecom) / SLDC / All Dist. Utilities may please update the status.

D8: Web based drawal / generation scheduling.

SLDC is going to implement web based drawal / generation scheduling for Dist. Utilities and State generating stations including IPPs and CGPs soon. A demo has been organized on 29.07.15. In the last meeting, CGM (IT) stated that, web based generation scheduling for State generating stations has done. Modules for Discom and CGP / IPP shall be made available before the next PSOC meeting. After approval by the stake holders the same shall be go live from September'15. All Users were requested to forward their respective schedule in the prescribed format.

CGM (IT) / Discoms / OHPC / NTPC / OPGC / CGPs & SLDC may update the progress.

D9: DISCOM Issues**SOUTHCO:**

1. Facilitating to get the data in Excel format for better ABT operation.
2. BSP bill for the month of July 2015 has not been prepared by Gridco as per the energy accounting statement issued by SLDC.
3. Machkunda power drawal.
Previous proposal of linking of 33kv system to draw Machhakund power from Akhusingi to Bissamcuttack is still under progress, however the same is not feasible due to long distance and thus it may be shared by 132 kV system only.
4. Renovation of Ganjam grid with capacity up-gradation with 3 nos 33kV feeders for area load.

NESCO

1. The total drawal and data displayed in RVDU is not matching with Data displayed at SLDC, Bhubaneswar at any instant (near about 55MW difference).
2. Suspected value of 132KV feeders / Power transformers has not been corrected in RVDU even after rectification of suspect value of drawal at SLDC site. (Ex- At 17.25 hrs, 25.8.2015, the drawl of Rohit Ferro alloys is 69MW at NESCO RVDU but 6MW at SLDC side).

CESU

1. Mismatch of displayed and actual drawal lead to inaccurate drawal prediction on day-ahead basis.
2. Provision of AVR at Puri and Samuka grid sub-station as decided in the Nabakalebar meeting.

CGM (IT) / Sr. G.M. (Telecom.) may please deliberate.

PART E: OPERATIONAL PLANNING

E1: Commissioning status of New Transmission elements.

The status of commissioning of new transmission elements is as follows:

Sl. No	Transmission element details	Present Status
1	Commissioning of 220 kV Jayanagar-Jeypore 2 nd DC line	Work has already been started. Expected to be completed by March 2016.
2	Commissioning of 400 kV Meramundali-Mendhasal 2nd ckt	Line is ready and shall be charged after commissioning of 3 rd ICT at Mendhasal, which is under progress.
3	Commissioning of 400 kV Ib-Meramundali D/C line.	400kV SSEL-Meramundali line has been idle charged from SSEL end. Due to theft of conductor line could not be charged. Expected to be charged by end of July'2015.
4	Commissioning of 400 kV Duburi-Meramundali D/C line.	Work is in progress after disposal of Case. Expected by the end of August' 2015.
5	Commissioning of 220 kV Bidanasi-Cuttack line	Work in progress and expected to be completed by July 2015.
6	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by July 2015.
7	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by December 2015. Availability of bay at Baripada PG is uncertain.
8	Commissioning of 220/132 kV Kesinga S/S	Work under progress. Expected by September 2016.
9	Connectivity to Keonjhar PG	Proposal is mooted to be placed in the BoD meeting for connecting the proposed 220 / 33 kV Keonjhar S/S and with Turumunga S/S through 2 Nos. 220 kV ckts each.
10	LILO of 220 kV Burla - Bolangir line (one ckt) at Bolangir(PG)	Work has been started. Expected to be completed by July, 2015
11	220 kV Bolangir –Kesinga D/C line and LILO of one ckt at Bolangir(PG).	220kV Bolangir - Kesinga D/C line is under construction. It is proposed to connect Bolangir (PG) through LILO arrangement of one ckt. Land dispute is yet to be resolved.

Status of Discom's action plan for power drawal from the S/Ss expected to be commissioned in near future.

Sl. No	Name of the sub-station	able month of commissioning	Name of DISCOM	Action taken by Discoms
1	132/33kV, 2x20 MVA Khajuriakota	December'15	CESU	By July'15
2	132/33kV, 2x40 MVA Kalunga	July'15	WESCO Utility	
3	220/33kV, 2x20 MVA Banei	Dec'15	WESCO Utility	
4	132/33kV, 2x20 MVA Padmapur	Dec'15	WESCO Utility	
5	132/33kV, 2x20 MVA Udala	Dec-15	NESCO Utility	Line existing
6	132/33kV, 2x20 MVA Somanathpur	Aug'15	NESCO Utility	33 kV feeder existing.

CESU stated that action is being taken for construction of 33/0.4 kV S/S at Mendhasal to avail power supply for Mendhasal area.

All DISCOMS may update the status / CGM(O&M) & CGM(Const.) may please deliberate.

E2: Installation of Energy Metering at Hydro / Traction & Solar projects.

In the last meeting, it was decided that Gridco and OHPC shall consider the secure meter recordings for billing purpose.

WESCO shall take follow up action with Railway authority for replacement of CT & PT and meter panel at the traction points and intimate the progress in the next meeting.

GRIDCO / OHPC / WESCO may please deliberate.

E3: TTPS Issue.

Implementation of Feeder Metering

In the last meeting, TTPS stated that in a subsequent meeting between Gridco and TTPS, it was decided to defer the feeder metering till completion of 132 kV TTPS-Duburi feeder meter testing by STL. It was decided that SLDC shall prepare mock deviation charge bill considering the feeder meter recordings..

GRIDCO / OPTCL/ TTPS may please deliberate.

E4: Major Events in the month of July'15

1. 160 MVA, 220/132 kV Grid S/s at Puri (Samangara) S/s was commissioned on 14.07.2015 at 14:14 Hrs.
2. 132 kV LILO of Nimapara-Puri line to Puri (Samangara) S/s charged on 15.07.2015
3. 220/132kV, 100 MVA Auto-I at Mendhasal charged on 17.07.2015 at 21:43 Hrs.

E5: Important Grid Incidences during the month of July'15.

Important incident occurred during the month of July'15 are as detailed.

On 03.07.2015 at 22:27 hrs 220kV Raigarh , Korba II & III, IB -I,II,III & IV, Tarkera I & II , Lapanga & Katapali, Vedanta-I & II , Bhusan I & II & Aditya AL I & II tripped at Budhipadar/ Remote end. Total Power failure to 220kV Bus at Budhipadar observed. 220kV Raigarh Ckt at Budhipadar S/S tripped due to burst of 'Y' ph CT

On 06.07.2015 at 09:55 hrs and 10:54 all the 220 kV feeders emanating from Tarkera S/S tripped at Tarkera/Remote end. 220kV Budhipadar-Tarkera I & II tripped at Remote end. Total Power failure to 220kV Bus of Tarkera observed. At 09:55 hrs non-tripping of 132 kV Tarkera-Rajgangpur Ckt-I (Earth wire snapped between Loc. No-63 and 65) at Tarkera might have caused tripping of all other 220 kV and 132 kV Ckt at Tarkera

At 10:54 hrs flash over was observed in 220 kV Tarkera-Budhipadar Ckt-II between Loc. No-304 and 305 as clearance between line and tree branch reduced causing total black out at Tarkera.

On 17.07.2015 at 14:51 hrs 220 kV Balimela-Jaynagar Ckt-III tripped at Jaynagar end only on relay indication E/F, Zn-I, 'Y' ph, 'B' ph, distance-49.1 km. Subsequently 220 kV Jaynagar-Jeyppore PG Ckt- I &II, 220 kV Jaynagar-Balimela Ckt-I tripped at Jaynagar end on E/F relay indication. 220/132 kV 100 MVA Auto-I & II at Jaynagar tripped. 220 kV Jaynagar-Laxmipur Ckt-I & II tripped at Laxmipur end. 220 kV bus at Jaynagar became dead. Heavy jerk was noticed at Balimela Power House and all running unit #2 & 4 of Balimela PH were hand tripped.

Members may discuss

E6: Reporting of major Incidents

It is noticed that, very often the reports in respect of major incident received from the field S/Ss are not in proper order and not containing the relay indications and sequence with justification. At times the report is being received after considerable lapses of time, even after 2-3 days, which lead to embarrassing situation in the protection coordination sub-committee meeting of ERPC

In the last meeting, it was decided that the preliminary report shall be sent by the respective DGMs within 24 hours of occurrence of the incident to SLDC. The final report shall be sent to SLDC after due analysis by the concern E&MR Divisions.

Members may discuss

E7: Outage of major transmission Elements during the month of July'15. (above 10 hrs).

Outage of major transmission elements above 10 hours during the month of JULY'15 is as detailed.

Sl No	Transmission lines	Tripping Dt/time	Restoration Dt/time	Reason
1	132 kV Chandaka-Khurda Ckt	14.07.15 16:24	15.07.15 13:29	'R' ph and 'B' ph insulator damaged at Loc. No-30
2	220 kV Nayagarh-Mendhasal Ckt	16.07.15 19:55	17.07.15 14:31	'R' ph LA burst at Mendhasal S/S.
3	132 kV Aska-Chhatrapur Ckt-I & II	18.07.15 22:30	19.07.15 14:50	At Loc. No-59 all three phases insulator of Ckt-I damaged. At Loc. No-41 'R' ph and 'Y' ph insulator of Ckt-II damaged.
4	132 kV TTPS-Jabamayee Ckt	22.07.15 18:43	23.07.15 17:20	'B' ph wave trap and line to wavetrap jumper drop damaged at TTPS end.
5	132 kV TTPS-Jabamayee Ckt	23.07.15 21:51	24.07.15 11:40	'Y' ph jumper snapped at Loc. No-216
6	220 kV Meramundali-Kaniha Ckt-I	25.07.15 14:48	26.07.15 15:37	Snapping of diamond earthwire (between Loc. No-45 of 220 kV Meramundali-Kaniha line and Loc. No-16 of 220 kV TTPS-Joda line) and fell on 220 kV Meramundali-Kaniha Ckt-I
7	220 kV TTPS-Joda Ckt-II	25.07.15 14:48	26.07.15 14:54	'R' ph and 'B' ph insulator damaged at Loc. No 16
8	220 kV TTPS-Joda Ckt-II	27.07.15 00:27	28.07.15 13:37	'Y' ph and 'B' ph insulator damaged at Loc. No 449
9	132 kV Jaynagar-Machhkund Ckt	27.07.15 19:15	28.07.15 18:18	'Y' ph jumper snapped at gantry of Machhkund

Major outages are due to damage of insulator.

C.G.M. (O&M) may please deliberate.

E8: Review of Outage Program of State Generators / Transmission elements for the month of August & September'2015:

Tentative Outage programme for State Generators for the month of August/ September'2015 are as follows:

Sl.	Station	Unit	Period	Remarks
1	Burla	# 1	18.04.15 to 31.08.15	Capital Maintenance 470 Gallery Pump failure Programming for R, M & U
		# 2	10.04.15 to 31.08.15	
		# 6	17.02.14 to continue	
2	Chiplima	#3	15.02.14 to continue	Programming for R & M
3	Balimela	# 1	31.01.13 to continue	Programming for R & M Excitation problem Excitation problem
		# 3	26.06.15 to 30.09.15	
		# 7	10.07.15 to 30.09.15	
4	Upper Kolab	# 1	29.07.15 to 31.01.16	Capital Maintenance
5	TTPS	# 5	28.07.15 to 17.08.15	
		# 1	27.08.15 to 16.09.15	

OHPC may deliberate.

E9: Generation Program for the month of September'15.

Generation schedule for the month of SEptember'15 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 25.08.14	Reservoir Level as on 25.08.15	MDDL	High Flood Reservoir Level
	Sept'15 (1 st fortnight)	Sept'15 (2 nd fortnight)				
HPS, Burla	120+40	120+40	620.33ft	621.39ft	590 ft.	630 ft.
Balimela	100	100	1491.00ft	1483.00ft	1440 ft.	1516 ft.
Rengali	160	160	120.87mt	118.70mt	109.72mtr	123.5 mtr.
U.Kolab	100	100	853.44mt	850.83mt	844 mtr	858 mtr.
U. Indravati	200	200	640.46mt	630.32mt	625mtr	642 mtr
MKD (O/D)	30	30	2729.20ft	2727.50ft	2685 ft.	2750 ft.
TOTAL	750	750				

OHPC may update.

E10: Agenda by JSL, Duburi.

One Unit of JSL CGP will go under statutory shutdown in November 2015 (01st – 30th). JSL need to import power to operate the plant. JSL WILL IMPORT RENEWABLE ENERGY (Non-SOLAR) WHICH WILL ADDRESS THE RPO COMPLIANCE ALSO. The clearance for Import of Power up to 60 MW must be allowed during Nov'15 (01st – 30th).

PART F: OTHER ISSUES

F1: Date and Venue of the next (90th) PSOC meeting.