

Odisha Power Transmission Corporation Ltd.
Bhubaneswar.



Agenda
for
87th Power System Operational Coordination Meeting

Date: 27.06.2015
Venue: PTC, Chandaka

Odisha Power Transmission Corporation Ltd. Bhubaneswar.

Agenda for 87th PSOC Meeting to be held on 27.06.2015 at PTC, Chandaka

A1: Confirmation of the minutes of the 86th PSOC Meeting held on 23.05.2015

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2014/2089⁽³⁰⁾, dated 12.05.2015 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

B1: Review of Grid Performance for the month of April'15 & May'15.

(A) Frequency:

Hourly frequency variation for the month of April'15 & May'15.

Month	% of time frequency remained					
	<49.00	49.00-49.70	49.70-49.90	49.90-50.05	>50.05	49.70-50.05
Apr'15	0.00	0.37	11.74	56.89	31.02	68.62
May'15	0.00	0.22	12.23	62.21	25.34	74.44

Maximum & Minimum frequency during the month of February'15 & March'15.

Month	Freq (Hz)	Date	Time
Apr'15	Maximum – 50.31	28.04.15	06:15: Hrs
	Minimum – 49.67	20.04.15	20:00 Hrs
May'15	Maximum – 50.42	31.05.15	17:00 Hrs
	Minimum – 49.66	05.05.15	14:45 Hrs

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

Month	Demand	Maximum Consumption		Maximum Demand			Minimum Demand		
	MU	MU	Date	MW	Date	Time	MW	Date	Time
Apr'15	2158	78.46	20.04.15	3851	10.04.15	21:00	1736	28.04.15	20:00
May'15	2393	83.61	29.05.15	3932	29.05.15	22:00	2319	11.05.15	18:00
May'14*	2290	81.92	16.05.14	3755	16.05.14	20:00	2130	26.05.14	05:00

Members may please discuss.

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

Sl. No	S/s Name	Maximum			Minimum		
		kV	Day	Time	kV	Day	Time
1	Jayanagar	242.31	24	09:15	204.72	26	09:15
2	Theruvalli	236.42	26	9:30	204.72	7	19:30
3	Bhanjanagar	235.09	11	16:30	208.13	09	20:45
4	Chandaka	231.16	11	16:30	201.66	19	12:30
5	Narendrapur	226.72	11	16:15	177.59	12	19:00
6	Joda	238.09	3	17:15	224.76	29	21:00
7	Tarkera	233.30	24	15:45	221.00	22	15:45
8	Bhadrak	231.05	11	17:30	191.56	29	21:00
9	Paradeep	230.47	11	17:30	186.88	22	20:30
10	Budhipadar	237.34	23	12:45	172.91	21	18:15
11	Duburi	230.47	11	17:45	201.03	25	19:45
12	Balasore	234.80	31	19:45	206.05	29	21:00
13	Meramundali	227.07	12	6:30	214.88	25	19:45
14	Bidanasi	231.51	11	16:15	206.11	25	20:45
15	Katapalli	239.30	23	13:15	203.74	23	12:30
16	Nayagarh	232.67	11	13:30	205.88	9	20:45
17	Mendhasal	233.07	11	16:30	204.61	19	12:30
18	Bolangir	244.79	23	13:15	194.33	23	12:15
19	Barkote	235.21	17	17:45	224.70	25	20:00

The maximum voltage of 244.79 kV and 242.31 kV occurred at Bolangir and Jayanagar 220 kV bus while Narendrapur, Paradeep and Budhipadar 220 kV bus have experienced the minimum Voltage of 177.59, 186.88 and 172.91kV respectively.

Members may discuss.

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

Source of Power	Energy (MU)
Thermal (TTPS+IB)	539.54
OHPC Stations including Machhkund share	492.82
IPP & CGP Support	617.14
ISGS drawal	721.23
TOTAL	2370.73

(E) Drawal of Machhakund Power

The drawal of Machhakund power during the month of May'15 was **17.30 MU** against AP drawal of **19.478 MU**. Total generation was 38.508 MU

Machhakund generation was reduced due to shut down of Machhakund units from 19.05.15 to 10.06.2015. Machhakund was not extended power supply even after synchronization of their 1st units on 10.06.2015 and 2nd unit on 15.06.2015. However from 16.06.2015, Machhakund power is being drawn by the State. Gridco may take up the matter with Machhakund authority to compensate the State's share within the current month.

In the last meeting it was decided that:

- (i) Sr. G.M (O&M), Zone-I stated that bus modification work will be taken up after revival of Machhakund generation.
- (ii) Sr. G.M (Telcom) stated that revival of communication between Machhakund will be restored after revival of Machhakund generation.
- (iii) Southco Utility stated that work for linking of 33 kV Gumuda feeder at Akhusing S/S is under progress.
- (iv) In view of the decision taken for sale of entire Machhakund share to AP, OHPC has written a letter to APGENCO for installation of check meters at Machhakund PH.

Sr. G.M (O&M), Zone-I / Sr. G.M. (Telecom) / OHPC / Southco Utility may update.

(F) DISCOM Drawal for the month of May'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
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
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
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

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 May'15.

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

Members may note

PART C – issues raised in 109th OCC meeting of ERPC

C1: PLCC Status installed in Eastern Region & EL status

In 106th OCC, Powergrid agreed to restore and maintain the PLCC system at both ends (its own end as well as the constituent end) of a line wherein the other ends are not being maintained by respective constituents for some reasons or others. It was decided that the cost of restoration and maintenance of PLCC system at such (constituent) ends of the line will be borne by the respective constituents. In addition to this the constituents also agreed to extend all possible support to Powergrid in carrying out the above work.

In 108th OCC, Powergrid raised several issues to maintain the PLCC system falling under control area of other constituents and pointed out difficulties in maintaining the same. OCC advised

Powergrid to survey the PLCC equipment for the transmission lines given at Annexure and submit the status & requirement in the next OCC meeting.

List of PLCC equipments owned by OPTCL

Sl. No	Tie Line	Connected System	
1	Indravati(PG)-Indravati	POWERGRID	OPTCL
2	Baripada(PG) - Mendhasal	POWERGRID	OPTCL
3	Balimela – Upper Silleru	OPTCL	APTRANSCO
4	Budhipadar - Raigarh	OPTCL	Chattisgarh
5	Budhipadar – Korba	OPTCL	Chattisgarh
6	Jayanagar – Jeypore (PG)	OPTCL	POWERGRID
7	Bisra - Tarkera	POWERGRID	OPTCL
8	Joda - Kenduposi	OPTCL	JUSNL
9	Rourkela - Goelkera	OPTCL	JUSNL

It was deliberated in the meeting that 132 kV Rourkele-Goelkera ckt is not in service since long. OPTCL may not consider restoration of this line. Hence maintenance of PLCC of the said line at OPTCL end is not required.

Sr. G.M (Telecom) has written to Powergrid for maintenance of defective **PLCC only** as per the list for which reply from Powergrid is yet to be received.

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

C2: Status of commissioned Islanding schemes in Eastern Region

Sl.4 Islanding scheme if IB TPS, Odisha

It was deliberated that Islanding scheme of IBTPS is yet to be commissioned.

CGM (O&M) / IBTPS may deliberate the status

C3: Status of 1st “Third Party Protection Audit”

The compliance report of 1st 3rd party Protection Audit in respect of OPTCL

Total observations: 59

Complied: 12

% compliance: 20.34

OCC advised to submit the Substation wise compliance to the observations as per the list.

CGM (O&M) may please deliberate.

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

400/220 kV, 2 X 315 MVA S/S at Bolangir has been established by Powergrid as part of ISTS system & the following 220 kV interconnecting lines were envisaged to be established by OPTCL:

- (i) LILO of OPTCL’s Katapali-Bolangir line (One ckt) at Bolangir (PG):
- (ii) Bolangir (PG)–Bolangir S/C line.
- (iii) Bolangir (PG)-Kesinga S/C line.

The status of the lines as deliberated in the in the last meeting are as follows:

- (i) LILO of OPTCL's Burla-Bolangir line (One ckt) at Bolangir (PG): June, 2015
- (ii) Bolangir –Bolangir (PG) S/C line, which is a part of proposed Bolangir- Kesinga D/C line with one ckt LILO at Bolangir(PG): May be delayed due to land disput.
- (iii) Bolangir PG-Kesinga S/C line (Part of Bolangir-Kesinga D/C line): Work started

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

C5: Breakdown Maintenance of OPGW

In 108th OCC, Powergrid informed that they are planning AMC for central sector OPGW and agreed to include the constituent part in the same AMC after getting requisitioned.

It was decided in the OCC that all constituents are required to give their requisition to Powergrid within a week for inclusion in the AMC proposed for central sector OPGW.

CGM (O&M) / Sr. G.M (Telcom) may please deliberate.

C6: Allotment of 2 Nos 132 kV bays at 400/220/132 kV Baripada (PG) S/S to OPTCL for 132 kV Jaleswar ckt 1&2.

It was deliberated in the OCC that Jharkhand Urja Sancharan Nigam Limited (JUSNL) may reconsider for issue of consent for utilization of 2 Nos 132 kV bays by OPTCL for its Jaleswar S/S, which shall be surrendered by OPTCL whenever required by them. CGM (O&M) may write a letter to JUSNL in this regard.

CGM (O&M) / GRIDCO may please deliberate

C7: Future requirement of Special Energy Meters and DCDs

The requirement of frequency based ABT Special type meters up to 2014 has been procured by Powergrid and likely to be exhausted shortly. Beneficiary Constituents of ER are requested for assessment of their requirement of Special Type Energy Meters and DCDs for the period from 2015 to 2017 and intimate the same in the next OCC meeting so that the advance action for procurement can be taken.

In the last meeting SLDC stated that DCDs may not be required as Powergrid is going to adopt AMR for all the metering points soon. However, the existing DCDs may be replaced by Powergrid. SLDC has already intimated Powergrid for replacement of defective DCDs.

SLDC may update the status.

C8: Pollution mapping for Eastern Region

In 109th OCC meeting, it was decided that all constituents shall take on site measurement of ESDD & NSDD and intimate Powergrid / ERPC.

Measuring kits are being issued. Measurement will be completed by the end of June'2015.

CGM (O&M) may please deliberate.

C9: Mock Black Start Exercise in Eastern Region.

It was decided in the 109th OCC to conduct mock black start exercise for Upper Kolab HEP during the month of June'15.

SLDC / OHPC may please deliberate.

C10: Proposal for review of Power Demand Order (PDO) condition for HVDC Gazuwaka poles, in view of repeated tripping in South Odisha.

ERLDC had made a presentation on the existing and proposed PDOs at HVDC Gazuwaka poles and sought views of OPTCL for implementation in the 106th OCC meeting of ERPC. In 29th PCC, OPTCL agreed to the proposal.

In the OCC meeting it was decided that, OPTCL shall study and forward their comments to ERPC / ERLDC. OPTCL has already forwarded their comments to ERLDC.

OPTCL informed that the over Voltage set point may be considered at 420 kV instead of 435 kV as per upper steady state voltage limit for 400 kV system satisfied in clause (3) of grid regulation standard 2010 of CEA

It was decided in the OCC to hold a meeting between OPTCL, ERPC, ERLDC, SRLDC & NLDC at ERPC to discuss the issue.

CGM (O&M) may please deliberate.

C11: Loading of Meramundali & Mendhasal ICTs

In view of exceeding the loading of Meramundali and Mendhasal ICTs beyond 200 MW, (N-1) contingency is not remaining satisfied. OPTCL may take action for augmentation of ICTs at these locations for improving Grid reliability.

CGM (O&M) may please 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 May'2015 is as tabled.

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)
1	CESU	27	57.066
2	WESCO	51	2.296
3	NESCO	24	2.878
4	SOUTHCO	24	7.461
	Total	126	69.701

It is noticed that CESU is continuously over drawing since last 4 months. The drawal display of CESU in SCADA may be analyzed by SLDC and CESU, comparing with the actual energy meter data for last months and the reason of less display may be identified. The analysis report may be placed in the next meeting. All the Discoms are requested to predict their drawal in a realistic manner to avoid over drawal / under drawal. Frequent revision of drawal schedule may be avoided as far as possible.

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

Sr. G.M. (Telecom) stated that inspection of MFM is in progress. Work will be completed soon after receipt.

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

D3: Levy of Reactive Energy Charges due to injection of VAR to the grid.

It is noticed that GRIDCO is the only constituent in ER, liable to pay Reactive Energy charges due to injection of reactive power to the pool at the following inter connection point for the period from 23.02.2015 to 01.03.2015.

- (1) 400kV Indravati-Indravati PG
- (2) 400kV Meramundali- Angul PG D/C
- (3) 220kV Rengali – Rengali PG D/C
- (4) 132 kV Baripada PG – Rairangpur

In the last meeting, it was decided that SLDC shall monitor the VAR injection of IPP / CGP on real time basis.

Minimum number of ckts shall be kept in service in case of low hydro generation. Sr. G.M (PS) stated that Balimela HEP is keeping two Units in synchronization with minimum generation (10 MW each) to meet its auxiliary requirement in contingency conditions, even though DG set is available.

SLDC stated that Balimela PH may revive their 33/11kV station transformers for availing power supply in contingency conditions and avoid keeping two nos. of units in bar all the time. It was decided that OHPC shall approach OPTCL for extension of power supply at 33kV from 220/33 kV, Balimela sub-station.

Members may discuss. OHPC may deliberate the status

D4: Prolonged outage of transmission elements and tentative revival dates

Sl.No	Name of transmission element	Reason of outage	Probable date of revival
1	220 kV Jayanagar-Theruvali ckt-III Breaker	Breaker defunct	May 2015
2	220/132 kV, 100 MVA Auto-II at Duburi	After inspection by repairer, date can be ascertained	Can be ascertained after inspection.
3	220 kV Budhipadar-Raigarh	Breaker problem at Raigarh	

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

D5: 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 is 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 Metallics	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 that GCC may write to all the defaulting CGPs to comply their data communication system early.

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

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

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

In the last meeting G.M. (Telecom) stated that PCB for ICT –II has already been installed and working. PCB for ICT-I will be installed after availing of line shut down. Procurement of TPC-201 for Meramundali has been initiated.

CGM (O&M) / G.M. (Telecom) may update.

(iii) Availability of data at SLDC.

The data for the following elements are not available for SCADA display.

- (a) Power flow through 132 kV Paradeep- Jagatsinghpur ckt.
- (b) JSPL (Angul) generation data

In the last meeting Sr. G.M. (Telecom) stated that, for item (a), transducers have been installed and cable issued. (b) M/s JSPL has been asked to restore its generation data at SLDC, but not responding.

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.

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

(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.

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

D6: 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 last meeting are as detailed.

Sl. No	Dist. Utility	Status of leased line	Remarks
1	CESU	Already connected. RVDU commissioned	Data display yet to be available
2	WESCO	Applied to BSNL for demand note	
3	NESCO	Required amount deposited with BSNL	Expected by 15 th June'15.
4	SOUTHCO	Required amount deposited with BSNL	

In the last meeting it was decided that, representative of IT shall visit all the Discom ABT cell and take feedback. The Dashboard shall be made operative from 1st June, 2015.

CGM (IT)/Sr. G.M (TElcom)/SLDC/All Dist. Utilities may please deliberate.

D7: 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. The required formats are being forwarded to all the users. They are requested to forward their respective schedule in the prescribed format. In the last meeting it was decided that IT wing of OPTCL shall take up the work. The scheduling formats shall be forwarded to all users.

CGM (IT) & SLDC may deliberate the status.

D8: DISCOM Issues

SOUTHCO:

ABT issues

1. Providing data in the new format submitted by SOUTHCO in the ABT Dash Board
2. Incorporation of data of new grid sub-stations i.e. Boudh, Dabugaon, Umerkote.
3. Although RVDU equipments have installed at ABT cell of SOUTHCO and lease line is in service, the real time data is yet to be received.

Revision of Schedule

1. In case of reduction of Southco drawal due to grid failure for a prolonged period or due to imposition of Load Restriction by SLDC, the actual drawal may be treated as schedule.
2. In case of load crush, the downward revision is not being accepted by SLDC, indication technical minimum availability.

Other issues

1. Construction of new Grid S/Ss at Baliguda, Chikiti and Gunupur to address low Voltage problem at those areas.

**CGM (O&M)/SLDC/ Sr.GM(Telcom) may please deliberate
NESCO**

Server error problem noticed since last three days need to be sorted out.

SLDC/ Sr.GM(Telcom) may please deliberate

CESU

- 1) Data display in RVDU-

- All 113 nos. metering point data on which monthly energy drawal of CESU is being computed are not displaying.
- Some of the data are remaining fixed, while some are showing as 'suspect'.
- Interruption in data display.
- Mismatch of data with SLDC such as Frequency, Schedule and actual drawal
- Frequency related pricing chart on real time basis
- Previous drawal, schedule and frequency.

Although assured by DGM (Telcom), to rectify the display by 15th June, no significant improvement is made.

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

- 2) Low Voltage problem at Cuttack, Salipur, Bhubaneswar and Jagatsingpur area including Rly traction S/Ss. This can be resolved by commissioning of Bidanasi-Cuttack line
- 3) Power drawal by Kaipadar traction feeder from Khurda S/S affects industrial activity in Khurda area.
- 4) Commissioning of 220 kV Atri S/S to address low Voltage problem.
- 5) Connecting 220 kV Grid S/Ss with the proposed 400/220 kV S/s by Powergrid.
- 6) Commissioning of 132/33 kV S/s at Marsaghai to meet the area load requirement.
- 7) Replacement of CT at Chainpal.
- 8) Provision of additional 33 kV bay at Bidanasi Grid to feed Satichoura 33 kV S/s, which is scheduled to be completed by December'15.
- 9) Low Voltage problem at Khurda, Paradeep and Bhubaneswar.

Month	Mancheswar		Chandaka		Kesura		Sijua	
	Max	Min	Max	Min	Max	Min	Max	Min
March'15	33.441	28.822	35.069	30.480	33.872	27.817	34.245	27.890
April'15	34.736	25.358	37.676	27.286	34.919	30.498	37.313	27.618
May'15	34.415	28.700	35.300	30.270	34.184	28.108	34.281	28.096

- 10) Frequent interruption of power supply to Gorkhnath Rly traction S/S.

Month	Interruption in Minutes
October'14	8927
February'15	1475
April'15	1472
May'15	1104

- 11) Failure of DC and AC auxiliary supply to Apex meters at PPL-I at Paradeep and TS Alloys at Choudwar.
- 12) Voltage profile at different Grid S/Ss and power supply interruption to Gorekhnath TSS

CGM (O&M) 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 June 2015.
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 June'2015.
4	Commissioning of 400 kV Duburi-Meramundali D/C line.	Work is in progress after disposal of Case. Expected by the end of June 2015.
5	Commissioning of 220 kV Bidanasi-Cuttack line	Work in progress and expected to be completed by June 2015.
6	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by June 2015.
7	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by December 2015.
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 June, 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 disput is yet to be resolved.

[Action: CGM (Construction)]

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 Banki	Charged	CESU	Yet to be connected at 33kV
2	132/33kV, 2x20 MVA Konark	June'15	CESU	Line existing
3	132/33kV, 2x31.5 MVA Samuka beach	Charged	CESU	Availing load
4	132/33kV, 2x20 MVA Khajuriakota	December'15	CESU	33 kV feeder work shall be completed by Jun'15
5	132/33kV, 2x40 MVA Sarasmal	Charged	WESCO Utility	Yet to be connected at 33kV
6	132/33kV, 2x40 MVA Kalunga	June'15	WESCO Utility	
7	220/33kV, 2x20 MVA Banei	Dec'15	WESCO Utility	
8	132/33kV, 2x12.5 MVA Dabugaon	Charged	SOUTHCO Utility	33 kV Dabugaon and Papadahandi feeder completed
9	132/33kV, 2x12.5 MVA Umerkote	Charged	SOUTHCO Utility	Availing load
10	132/33kV, 2x20 MVA Nawapara	Charged	WESCO Utility	Availing load
11	132/33kV, 2x20 MVA Padmapur	June'15	WESCO Utility	
12	132/33kV, 2x20 MVA Udala	Dec-15	NESCO Utility	Line existing
13	132/33kV, 2x20 MVA Somanathpur	June'15	NESCO Utility	33 kV feeder exists.

In the last meeting 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 OHPC stated that energy meters installed are showing erroneous readings in some of the OHPC stations. It was decided that OPTCL shall instruct Secure Meters to rectify the problem. SLDC suggested for providing PT supply to the energy meters from the respective feeder line PTs.

WESCO Utility have yet to approach Rly. Authority for installation of required Class of CT & PT at their Bhalulata, Bamara and Chandiposi Traction points.

CGM (O&M) may update the status / OHPC / WESCO may please deliberate.

E3: TTPS Issue.

Implementation of Feeder Metering

Installation of feeder meters at TTPS outgoing feeders is yet to be completed. A meeting was convened by Gridco on 3rd June'2015 with TTPS, OPTCL & SLDC to explore TTPS feeder metering. It was decided to utilize the feeder meters already commissioned by TTPS for the purpose. TTPS stated that 132 kV TTPS- Duburi ckt-I is having 5 Amp CT, while all feeders are of 1 Amp CT. Complete metering is not possible due to mismatch of CT ratio. It was decided that DGM, Meramundali shall visit the site to examine the feasibility of installation of 1 Amp CT for the said feeders. As reported by CGM, Meramundali that 0.2C accuracy Class main and check meters bearing No. ORB 52368 and ORB 52369 have been installed in the TTPS-Duburi ckt-I. The CT ratio is 600/1, while meters are configured for 400/1 CT ratio. The meters may be configured to 600/1 CT ratio to complete the feeder metering.

GRIDCO / OPTCL/ TTPS may please deliberate.

E4: Shifting of 33 kV line from Balasore Grid S/S yard to facilitate separation of Tfr and Balasore Alloy bays.

In the last meeting, NESCO stated that the work has already been started and shall be completed by end of June 2015.

NESCO may please deliberate.

E5: Major Events in the month of May'15

There is no record of major events in OPTCL system during the month of May 2015.

E6: Important Grid Incidences during the month of May'15.

Important incidents occurred during the month of May'15 are as detailed.

1. On 21.05.2015 at 09:24hrs

Heavy jerk was noticed at Balimela Power House and unit #4 of Balimela tripped. 220 kV Jayanagar-Balimela ckt-III tripped on D/P and O/V. # 3 of Balimela was kept in spinning condition.

220 kV Jayanagar-Upper Kolab Ckt 1 & 2 tripped at Upper Kolab end.

The only running unit #4Indravati PH was hand tripped noticing load rejection. No tripping of 220 kV / 400 kV feeder at Indravati noticed.

220 kV Theruvali-Bhanjanagar Ckt-II tripped at Theruvali end only on 'R' ph, 'Y' ph, 'B' ph, D/P, Zn-I, dist-77.83 km. 220 kV Theruvali-Bhanjanagar Ckt- I tripped at Theruvali end only on 'R' ph, 'Y' ph, 'B' ph, D/P, Zn-I, dist-78.12 km.

There was total black out at Jaynagar and Narendrapur S/S.

220 kV Theruvali-BhanjanagarCkt-I tripped at Bhanjanagar on D/P, 'B' ph, E/F, Zn-I, dist-123.42 km.

2. On 21.05.2015 at 18:12hrs

220 kV Raigarh Ckt tripped on Zn-3 reverse zone along with Korba Ckt-II on Zn-I, 'R' ph, 'B' ph, E/F, IBTPS-II tripped on 'R' ph, 'B' ph, E/F, Zn-3 reverse zone, Tarkera-II tripped on 'R' ph, 'Y' ph, 'B' ph Zn-3 reverse zone, Vedanta Ckt-I&II on D/P, 'B' ph, E/F, Lapanga-I& II on D/P, 'B' ph, E/F at Budhipadar end. 132 kV Burla Ckt-II on D/P, Zn-II, and Rajgangpur Ckt on D/P, Zn-I tripped at Budhipadar. 220 kV Korba Ckt-III tripped at Korba end. 220 kV Bhusan Ckt-I & II tripped at Bhusan end.

220 kV bus coupler breaker tripped at Budhipadar. Total black out occurred at Budhipadar S/S. At the same time #1 and 2 at IbTPS and Sterlite unit IPP and CGP tripped. 220 kV Budhipadar- IbTPS Ckt-I & III tripped at IbTPS end on E/F relay indication.

On investigation it was found that B-ph CT of 220 kV Raigarh Ckt burst damaging 220 kV main bus-I conductor at Budhipadar.

3. On 23.05.2015, 11:08hrs 220 kV Tarkera Ckt-I tripped on D/P, 'B' ph, E/F, Zn-I, dist-25.2 km, dist-24.7%. At 11:17 hrs 220 kV Tarkera Ckt-II tripped on D/P, 'B' ph, E/F, Zn-I, dist-7.8 km, dist-7.7% and Aditya aluminium generators islanded. At 11:28 hrs 132 kV Rajgangpur Ckt tripped D/P, 'Y' ph, E/F, Zn-I.

At 11:43 hrs Korba Ckt-II tripped on D/P, Zn-I, 'B' ph, E/F, dist-10.9 km, Korba Ckt-III tripped at Korba end only on D/P, Zn-II. Simultaneously SSL IPP generator tripped.

At 11:56 hrs 220 kV Tarkera Ckt-I charged but tripped on D/P relay indication.

At 12:09 hrs 220 kV Tarkera Ckt-II charged but tripped on D/P relay indication. SSL CGP generator tripped.

At 12:14 hrs voltage dip was observed at IbTPS pulling out#1 & 2 on over frequency. Total power supply failed at Budhipadar S/S.

4. On 24.05.2015, 13:40hrs at Tarkera 220 kV Budhipadar Ckt-I tripped on D/P pulling out Auto-II on 220 kV side.

At 13:48 hrs 100 MVA Auto-II charged.

At 13:50 hrs 220 kV Budhipadar Ckt-I charged but did not stand.

At 14:08 hrs 132 kV Budhipadar-I charged and made through.

At 14:40 hrs 220 kV Budhipadar Ckt-I charged but did not stand.

At 15:22 hrs while idle charging 220 kV Budhipadar Ckt-I it tripped pulling out all other 220 kV feeders connected to Tarkera S/S i.e. Bisra PG Ckt-I & I, Rengali Ckt-I, Budhipadar-II.

Members may discuss

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

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

Sl No	Transmission lines	Tripping Dt/time	Restoration Dt/time	Reason
1	220 kV Meramundali-Bhanjanagar ckt-II	13.05.15 18:43	14.05.15 13:39	Earth wire snapped between Loc. No-59 to 60, 60 to 61, 62 to 63.
2	132 kV Nimapara-Kesura Ckt	14.05.15 18:23	15.05.15 10:12	'B' ph jumper snapped at Loc. No-10
3	220 kV Budhipadar-Korba Ckt-III	15.05.15 22:01	16.05.15 22:26	'B' ph insulator damage at Loc. No-164

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

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

Tentative Outage programme for State Generators for the month of **July'2015** are as follows:

Sl.	Station	Unit	Period	Remarks
1	Burla	# 1 # 6	18.04.15 to 31.07.15 17.02.14 to continue	Capital Maintenance Programming for R, M & U
2	Chiplima	#3	15.02.14 to continue	Programming for R & M
3	Balimela	# 1	31.01.13 to continue	Programming for R & M
4	Upper Kolab	# 1	01.07.15 to 30.12.15	Capital Maintenance

OHPC may deliberate.

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

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

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.06.14	Reservoir Level as on 01.06.15	MDDL	High Flood Reservoir Level
	July'15 (1 st fortnight)	July'15 (2 nd fortnight)				
HPS, Burla	60+40	60+40	606.62ft	604.23ft	590 ft.	630 ft.
Balimela	150	150	1487.90ft	1484.70ft	1440 ft.	1516 ft.
Rengali	150	150	115.33mt	117.21mt	109.72mt	123.5 mtr.
U.Kolab	100	100	849.75mt	851.23mt	844 mtr	858 mtr.
U.Indravati	400	400	630.40mt	631.10mt	625mtr	642 mtr
MKD (O/D)	30	30	2726.80ft	2718.35ft	2685 ft.	2750 ft.
TOTAL	930	930				

OHPC may update.

PART F: OTHER ISSUES

F1: Date and Venue of the next (88th) PSOC meeting.