

Odisha Power Transmission Corporation Ltd.
Bhubaneswar.



Agenda
for
104th Power System Operational Coordination Meeting

Date: 20.12.2016
Venue: PTC, Chandaka, Bhubaneswar

Agenda for 104th PSOC Meeting to be held on 20.12.2016 at PTC, Chandaka, Bhubaneswar

Item no. 1: Confirmation of the minutes of the 103rd PSOC Meeting held on 25.11.2016

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2015/4524⁽⁴³⁾ dated 16.12.2016 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 A

(List of items to be discussed for which the details are given in the subsequent parts)

B : Grid Performance for the month of November'2016

- C.1: Status of projects funded under PSDF scheme
- C.2: Preparation of Load Generation Balance Report (LGBR) of ER for 2017-18
- C.3: Restoration of PLCC system of important lines
- C.4: Status of construction of 400kV Sterlite - Jharsuguda D/C sections
- C.5: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s
- C.6: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.
- C.7: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.
- C.8: Reporting of Energy generated from renewable resources on daily basis
- C.9: Implementation of Automatic Demand Management Scheme (ADMS)
- C.10: Tie bay of 125 MVAR bus-reactor & 400kV Indravati –Indravati PG
- C.11: Operational Load Flow Study for off-peak period
- C.12: Transfer Capability determination by the State
- C.13: Mock Black start exercise in Eastern Region

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

- D.2: Prolonged outage of transmission elements and tentative revival dates
- D.3: Communication issues
- D.4: Web based drawal / generation scheduling.
- D.5: Implementation of Automatic Meter Reading for OPTCL-Discom interface points.
- D.6: Software for Deviation charge billing.
- D.7: Intimation of Planned outage to the CGP / Bulk Consumers
- D.8: Frequent interruption of SLDC webmail
- D.9: DISCOM Issues

E.1: Commissioning status of New Transmission elements.

- E.2: Energy Metering at Hydro Stations.
- E.3: Major Events in the month of November'16
- E.4: Important Grid Incidences during the month of November'16.
- E.5: Outage of major transmission Elements during the month November'16. (above 10 hrs).
- E.6: High Voltage problem at BPPL 132kV bus
- E.7: Review of Outage Program of State Generators for the month of January'2017
- E.8: Generation Program for the month of January'2017.
- E.9: Anticipated power generation and demand for the month of January'2017.

F.1: Date and Venue of the next (105th) PSOC meeting

PART B: GRID PERFORMANCE

Review of Grid Performance for the month of November'16.

(A) Frequency:

Hourly frequency variation for the month of November'16.

Month	% of time frequency remained				
	<49.00	49.00-49.70	49.70-49.90	49.90-50.05	>50.05
Sept'16	0.00	0.01	6.64	76.00	17.35
Oct'16	0.00	0.00	4.62	71.27	24.11
Nov'16	0.00	0.10	9.43	71.91	18.56

Maximum & Minimum frequency during the month of November'16.

Month	Freq (Hz)	Date	Time
Oct'16	Maximum – 50.17	02.10.16	14:00 Hrs
	Minimum – 49.83	20.10.16	02:15 Hrs
Nov'16	Maximum – 50.17	16.11.16	21:45 Hrs
	Minimum – 49.63	30.11.16	17:30 Hrs

(B) Grid Demand for the month of November'16.

Month	Demand		Maximum Consumption		Maximum Demand			Minimum Demand		
	MU	Avg. (MW)	MU	Date	MW	Date	Time	MW	Date	Time
Oct'16	2252	3026	78.31	04.10.16	3995	04.10.16	21:00	2319	26.10.16	15:00
Nov'16	1980	2750	73.78	02.11.16	3866	01.11.16	19:00	2017	15.11.16	24:00
Nov'15	2084	2895	75.36	05.11.15	3968	05.11.15	20:00	2097	14.11.15	15:00

Members may please discuss.

(C) Voltage Profile of 220 kV Buses in OPTCL system for the month of: November'16

Sl. No	S/s Name	Maximum			Minimum		
		kV	Day	Time	kV	Day	Time
1	Balasore	236.82	24	13:00	217.94	02	18:45
2	Barkote	236.88	18	13:45	228.97	29	18:00
3	Bhadrak	240.57	24	12:45	216.79	02	18:30
4	Bhanjanagar	241.38	13	02:30	215.86	01	18:00
5	Bidanasi	239.25	14	02:30	216.04	22	17:45
6	Bolangir	229.37	09	00:30	217.25	12	18:15
7	Budhipadar	238.90	11	02:30	227.87	29	09:45
8	Chandaka	234.86	13	02:15	200.68	10	17:45
9	Duburi(O)	236.07	03	14:30	221.47	02	18:45
10	Duburi (N)	222.74	28	03:30	209.51	02	18:45
11	Jayanagar	243.52	18	11:45	222.79	18	08:30
12	Joda	237.94	21	03:15	224.77	24	19:00
13	Katapalli	232.32	11	02:30	222.97	22	18:30
14	Laxmipur	240.40	09	04:15	219.44	28	17:45
15	Mendhasal	234.05	13	02:15	200.28	10	17:45
16	Meramundali	233.65	13	03:45	224.52	01	18:15
17	Narendrapur	222.10	01	10:00	185.55	10	17:45
18	Nayagarh	236.42	13	02:15	200.80	10	17:45
19	Paradeep	232.61	03	03:45	211.82	01	18:15
20	Tarkera	236.42	18	14:00	227.87	05	18:15
21	Theruvali	234.28	14	01:00	208.65	28	18:00

The maximum Voltage of **243.52** kV occurred at Jaynagar 220 kV bus while Narendrapur, 220 kV bus has experienced the minimum Voltage of **185.55** kV. Bus Voltages at Samgara and Lapanga could not be incorporated due to non availability of energy meter in those S/Ss.

Members may discuss.

**(D) Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of Nov-16
 AUTO TRANSFORMER LOADING FOR THE MONTH OF NOVEMBER'2016**

Name of the 220 kV Sub-Station (Feeding Sub-stations/Feeders)	Capacity MVA	Drawal details						REMARKS
		Maximum			Minimum			
		MW	Day	Time	MW	Day	Time	
JAYANAGAR 220/132 KV. [Damanjodi(NALCO), Traction S/Ss, Tentulikhunti, Sunabeda, Jayanagar]	1x160	66.6	17	20:00	20.12	9	15:45	
	1x160	121.44	17	7:15	12.84	7	10:30	
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga, Powmex(I), Rayagada, }	1x100	80.68	17	19:00	4.96	7	13:00	Rayagada & Paralakhemundi can be fed from Machhkund system.
	1x100	77.32	30	15:45	12.56	7	8:30	
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana.}	1x160	116.48	8	17:45	27.64	1	10:00	
	1x160	114.00	9	6:45	14.04	8	10:30	
	1x100	NOT AVAILABLE						
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur}	1x160	97.52	1	18:45	21.32	8	11:30	
	1x160	85	1	18:45	18.48	8	11:30	
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri, Kesura, Kaipadar Tr. }	1x100	58.56	27	17:45	22.44	5	3:45	
	1x160	103.00	27	17:45	33.76	6	8:15	
	1x100	60.32	2	19:15	20.88	6	8:15	
	1x160	99.60	27	17:45	7.35	6	8:45	
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x160	NOT AVAILABLE						
	1x100	35.40	1	18:00	13.08	1	3:30	
	1x100	35.40	1	18:00	13.08	1	3:30	
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole, Boinda, Kamakhyanager, Kalarangi, Nuapatna, Choudwar }	1x160	57.00	4	13:00	1.00	14	18:00	
	1x160	57.00	4	13:00	1.00	14	18:00	
MERAMUNDALI 220/132 KV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti, BRG}	3x100	66.24	21	17:45	7	26	14:15	
		64.88	21	17:45	6.96	26	14:15	
	NOT AVAILABLE							
DUBURI 220/132 KV {Duburi, Bamniipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town}	3x100	53.96	25	18:15	5.6	17	13:30	Auto-II under shutdown.
		52.36	25	18:30	5044	17	13:30	
JODA 220/132 KV { Joda, Tensa, FAP(I), Bolani(I), Nalda Tr., Polasponga, *Rairangpur, Bhalulata traction}	3x100	NOT AVAILABLE						*** - Alternate P/S from Kuchei.
		NOT AVAILABLE						
		NOT AVAILABLE						
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T)}	2x160	118.20	2	18:15	42.08	8	4:00	
		117.52	2	18:00	16.64	19	8:00	
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh, Brajarajnaragar, Rajgangpur}	2x160	83.88	4	19:15	40.36	18	14:00	
		83.88	4	19:15	40.32	18	14:00	
TARKERA 220/132 KV { Rourkela, Rourkela Tr., RSP(I), Chhend, Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr.}	4x100	51.44	24	18:00	6.80	22	19:45	
		52.68	24	18:00	23.76	1	9:30	
		51.92	24	18:00	5.84	24	9:45	
		49.92	11	17:15	5.84	24	15:15	
KATAPALI 220/132 KV {Chipilima, Bargarh, ACC, Sonapur & Katapali area load.}	1x100	27.80	18	9:30	5.32	17	18:45	Supported by Burla & Chipilima power.
	1x100	27.88	18	9:30	5.28	17	18:45	
	1x160	NOT AVAILABLE						
BHADRAK 220/132 KV {Bhadrak area load, Bhadrak(T), Soro, FACOR (I), Dhamra Port}	3x100	49.72	1	20:30	7.28	8	17:45	
		47.28	1	20:15	6.80	20	12:00	
	NOT AVAILABLE							
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara}	1x160	72.00	6	9:45	18.96	24	13:00	
	1x100	106.68	1	19:45	31.20	24	13:00	
	1x50	NOT AVAILABLE						
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonapur, Saintala, Khariar, Barpalli }	2x160	138.40	8.00	15:00	17.92	26	11:45	
		119.68	7.00	18:00	0.77	26	11:45	
Lapanga	1x160	NOT AVAILABLE						
	1x160	NOT AVAILABLE						
Mendhasal	1x100	NOT AVAILABLE						
Samangara	1x100	NOT AVAILABLE						

In the last meeting it was deliberated that procurement of meters was under process.

CGM (O&M) may please deliberate the status.

(E) DISCOM Drawal up to the month of November'16

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'16	704.384	745.175	785.466	7.945	777.521	32.346
	May'16	727.863	754.537	769.278	14.893	754.385	-0.152
	June'16	704.384	728.317	760.387	12.791	747.596	19.279
	July'16	727.863	736.383	752.465	13.163	739.302	2.919
	Aug'16	727.863	731.392	749.383	16.214	733.169	1.777
	Sept'16	704.384	692.808	727.25	16.844	710.406	17.598
	Oct'16	727.863	684.054	719.361	19.376	699.985	15.931
	Nov'16	704.384	575.946	599.487	16.815	582.672	6.726
WESCO	April'16	579.452	617.311	657.707	18.777	638.93	21.619
	May'16	598.767	634.558	679.648	25.441	654.207	19.649
	June'16	579.452	643.125	651.414	23.867	627.547	-15.578
	July'16	598.767	629.509	675.567	31.735	643.832	14.323
	Aug'16	598.767	607.205	658.853	43.023	615.83	8.625
	Sept'16	579.452	570.415	581.591	31.785	549.806	-20.609
	Oct'16	598.767	562.624	588.719	30.95	557.769	-4.855
	Nov'16	579.452	513.055	560.377	33.899	526.478	13.423
NESCO	April'16	447.945	472.674	544.157	70.768	473.389	0.715
	May'16	462.877	447.214	545.786	90.686	455.1	7.886
	June'16	447.945	453.173	568.294	93.911	474.383	21.21
	July'16	462.877	464.223	637.112	160.664	476.448	12.225
	Aug'16	462.877	464.344	565.592	106.664	458.928	-5.416
	Sept'16	447.945	466.494	549.786	88.571	461.215	-5.279
	Oct'16	462.877	477.866	572.348	106.136	466.212	-11.654
	Nov'16	447.945	401.377	511.69	107.966	403.724	2.347
SOUTHCO	April'16	285.205	285.017	284.863	0.007	284.856	-0.161
	May'16	294.712	287.919	279.859	1.193	278.666	-9.253
	June'16	285.205	269.339	273.405	0.696	272.709	3.37
	July'16	294.712	275.04	285.042	0.196	284.846	9.806
	Aug'16	294.712	281.303	290.572	5.995	284.577	3.274
	Sept'16	285.205	278.812	279.315	2.821	276.494	-2.318
	Oct'16	294.712	277.521	279.892	4.25	275.642	-1.879
	Nov'16	285.205	248.696	258.424	3.396	255.028	6.332

The 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.

(F) Energy Generation / Import during the month of Nov'16

Source of Power	Energy (MU)
Thermal (TTPS+IB)	537.44
OHPC Stations including Machhkund share	306.01
CGP Support	194.80
IPP Support	328.11
ISGS drawal	613.39
TOTAL	1979.76

(G) Drawal of Machhakund Power

The drawal of Machhakund power up to the month of **November'16** are as detailed:

Month	Total Generation		Odisha Drawal		AP Drawal	
	MU	MW	MU	MW	MU	MW
April'16	42.784	59.42	19.714	27.38	21.032	29.21
May'16	54.998	73.92	19.860	26.69	33.100	44.48
June'16	52.601	73.06	22.143	30.75	28.162	39.11
July'16	61.250	82.32	27.531	37.00	31.460	42.28
August'16	65.386	87.88	30.816	41.42	31.871	42.84
September'16	66.248	92.01	31.835	44.21	31.739	44.08
October'16	67.765	91.081	31.269	42.028	33.822	45.459
November'16	66.324	92.116	30.673	42.60	32.982	45.808
TOTAL	477.356		213.841		244.168	

In the 103rd PSOC meeting it was deliberated that:

CGM (Telecom) stated that RVDU is expected to be commissioned by December'16. CGM (O&M) stated that Machhakund drawal was reduced due to shutdown of transmission elements during the month.

The date for high level meeting for Machhakund issue is yet to be finalized. Southco may explore the possibilities of inducting more 33 kV feeders in Machhakund system.

SLDC/ Sr. GM (O&M) -I / CGM (Tel) / OHPC/ Southco Utility may deliberate the status.

(H) Under Frequency Relay operation in OPTCL System during the month of Nov'16.

Since, the frequency had never gone beyond the lowest setting of UFR, there was no UF Relay operation occurred during the month of **Nov'16**.

Members may note.

(I) Status of Open Access applications up to the month of Oct'2016

The status of different types of Open Access applications received and disposed by SLDC is as tabled.

Sl. No	Month	No of Applications received					No of Applications Disposed					No of App. Rejected
		Intra-State	Inter-State		Total	Intra-State	Inter-State		Total			
			Bilateral				PXI	Bilateral		PXI		
			ST	MT/ LT				ST			MT/ LT	
1	April'16	7	124	0	25	156	6	124	0	25	155	1
2	May'16	6	67	2	16	91	5	67	2	12	86	5
3	June'16	4	79	0	39	122	3	79	0	26	108	14
4	July'16	4	118	0	35	157	3	118	0	30	151	6
5	Aug'16	8	127	0	23	158	7	127	0	21	155	3
6	Sept'16	5	86	1	35	127	5	86	1	33	125	2
7	Oct'16	7	78	0	38	123	6	78	0	38	122	1
8	Nov'16	10	110	0	40	160	8	109	0	30	147	13
	Total	51	789	3	251	1094	43	788	3	215	1049	45

PART C – Issues to be discussed in the 128th OCC meeting of ERPC on 23.12.2016

C.1: Status of projects funded under PSDF schemes

In the PSDF review meeting held on 29.04.16 at N. Delhi, it was advised to RPCs to monitor the status of all the projects funded by PSDF. Therefore, constituents are requested to update the status of projects which are being funded by PSDF in the desired format. The latest status as updated by OPTCL is as given below:

SI No	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	Amount Approved (in Rs.)	Amount Drawn till date (in Rs.)	Status as updated in 122 nd meeting
3	OPTCL	Renovation & Up-gradation of protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies.	11.05.15	10.05.17	162.5 Cr.	19.53 Cr.	In 122nd meeting Erection work of the already procured equipment is going on. LOA for eight different types of Testing equipment already placed worth about Rs.4 Cr. Placement of LOA for balance equipment is under process. Updated Total contract awarded = 47.653 crores. Erection work for received equipment is in progress.

ERPC advised to submit monthly updated report to RPC secretariat.

In the 103rd PSOC meeting, it was decided that SLDC shall prepare the DPR for implementation of ADMS and submit to CGM (O&M) for inclusion in PSDF.

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

C.2: Preparation of Load Generation Balance Report (LGBR) of ER for 2017-18.

As per the IEGC under Clause 5.7.4 of Principal Regulations, first amendment in 2012 under sub-Regulation (a), (b), (c) and (d) states that

a) “The RPC Secretariat shall be primarily responsible for finalization of the Annual Load Generation Balance Report (LGBR) and the annual outage plan for the following financial year by **31st December of each year**. The LGBR shall be prepared by the respective RPC Secretariat for Peak as well as Off-peak scenarios”.

b) “Each SLDC shall submit LGBR for its control area, for Peak as well as Off-Peak scenario, by **31st October** for the next financial year, to respective RPC Secretariat”.

c) “RPC Secretariat shall then come out with draft LGBR and draft outage plan for the next financial year by **30th November** of each year for the regional grid taking”

d) “The outage plan shall be finalized in consultation with NLDC and RLDCs. The final LGBR after considering comments/observations of the stakeholders shall be prepared by RPC Secretariat by **31st December of each year**. The.....”

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STU

Month wise annual planned outage of transmission systems (Transmission lines 220kV and above/ICTs/Reactors/other elements).

It is therefore requested to please send the above information (as applicable) on or before **31.10.2016** for compilation of data and preparation of **LGBR of ER for the year 2017-18**. Information should be submitted in the form of soft copy through email (mail ID: **rpc.erpc@gov.in / mserpc-power@nic.in**).

In the last meeting SLDC stated that the LGBR for the State shall be submitted by 1st Week of November. O&M may explore preparation of Annual outage of transmission elements by 1st week of November'16.

In the 103rd PSOC meeting it was decided that O&M shall explore preparation of Annual outage of transmission elements by 1st week of November'16.

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

C.3: Restoration of PLCC system of important lines

In 119th OCC, JUSNL informed that the following:

d) In 220 KV Ramchandrapur-Joda line auto-reclosure has been enabled and termination done in PLCC panels at Ramchandrapur end but due to non-availability of PLCC panels at Joda (OPTCL) end the A/R and PLCC scheme could not be implemented.

Further, it was informed that JUSNL is ready to share their standby PLCC panels (BPL make) with WBPDC (for Snataldih end) and OPTCL (for Joda end) to complete the PLCC schemes of both the above lines.

In 33rd ERPC Meeting, WBPDC and OPTCL agreed to settle the issue bilaterally with JUSNL. JUSNL was advised to resolve the AMC related issues with West Bengal & Odissa. All are requested to inform the development to CERC.

However ERPC advised JUSNL, OPTCL and WBPDC to get the PLCC system restored for both the lines by July 2016 positively.

Subsequently, a special meeting was convened by JUSNL on 11.07.2016 at Ranchi to resolve the issue at the earliest.

In 123rd OCC, OPTCL informed that they received the invoice from BPL and they are charging Rs. 1.8 lacs / year for AMC, which is not reasonable as the AMC charges for 5 years is more than the panel cost of Rs.5.1 lacs.

In 124th OCC, WBPDC informed that PLCC panels will be delivered by BPL in September'16.

OPTCL informed that they agreed to the BPL estimate and placing the order.

In 125th OCC, OPTCL informed that the order has been placed for PLCC panels without 5 years AMC.

In the 102nd PSOC meeting CGM (Telecom) stated that M/s BPL had agreed for 50 % advance payment. Accordingly order was placed on 5th October. On 24th October, M/S BPL is asking for 100% advance payment. CGM (O&M) may intimate the same to ERPC. This issue may also be raised in the TCC meeting of ERPC.

In the 103rd PSOC meeting CGM (Telecom) stated that CGM (Telecom) stated that PLCC shall be commissioned by December'2016.

CGM (Telecom) may please update the status.

C.4: Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In the last meeting Gridco stated that a meeting for discussion of Vedanta metering logic will be convened on 1st November'16. CGM (O&M) stated that after joining the 400 kV Vedanta buses substantial quantum of power is flowing to the CTU system. 400 kV Vedanta-Meramundali ckts are under loaded resulting increase in Meramundali bus Voltage. Gridco may pay penalty for VAR injection at High Voltage. Vedanta generator should absorb reactive power as per their capability to avoid high Voltage.

In 34th TCC held on 18.11.16, Vedanta explained the status of construction with a presentation. Vedanta informed that significant progress has been made in last 5 months and the line will be commissioned by March, 2016. Vedanta requested to extend the removal of the LILO till March, 2017 as final commitment.

OPTCL added that since Vedanta has made substantial progress during last 5 months and the dead line for removal of the LILO may be extended till February, 2017.

TCC agreed and advised Vedanta to submit a fresh undertaking in affidavit form to CTU and ERPC stating that the dedicated line will be completed by 28.02.2017 with no further extension. Failing which, CTU/ERLDC is authorized to open the LILO with effect from 01.03.2017.

In the 103rd PSOC meeting, M/s Vedanta stated that they are absorbing reactive power as per their capability.

It is noticed that the real time data indicating generation of Vedanta CGP / IPP & power flow through 400kV lines emanating from Vedanta 400kV bus is not being received at SLDC. Vedanta has to establish communication system with SLDC directly.

CGM (Telecom) / GRIDCO / SLDC / Vedanta may deliberate

C.5: 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 400 kV Meramandali-Jeypore S/C line and 400/220 kV Keonjhar S/s with an objective of supplying power from ER grid to its adjoining areas in Odisha.

In 127th OCC of ERPC, SLDC deliberated 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.	Only 7 towers left (Severe ROW problem). By March, 2017.
b.	LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S.	Charged on 04.05.16
2.	400/220 kV Keonjhar S/S.	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	By 2017
b.	Keonjhar (PG)-Turumunga (OPTCL) 220 kV D/C Line.	By 2019
3.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C line	December 2017 (Work started)
b.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	February'2017

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

C.6: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.

The activity of the preparation of Crisis Management Plan for countering the cyber attacks and its implementation including the Mock Drills, audits etc. is being monitored by CEA regularly in line with crisis management plant of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly, the updated status to Chief Engineer, Distribution Planning & Development Division, CEA. NTPC communicated their activity of the preparation of Crisis Management Plan for countering the cyber attacks vide letter dated 2nd August, 2013.

In 113th OCC, Member Secretary informed that during interaction with consultants of Grid Study Committee, NLDC agreed that they will plan for conducting workshops on crisis management plan for Cyber Security and few workshops will also be held in Eastern Region.

In the 103rd PSOC meeting, IT stated that contract will be awarded by a week time. SLDC has agreed to nominate a person for UAT.

CGM (IT) may please deliberate the status.

C.7: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.

In 84th OCC meeting all constituents were requested to interact with BIS with intimation to ERPC and get certified as per CEA direction.

In 85th OCC, NTPC informed that NTPC-Farakka has been certified with IS 18001. Other constituents including OHPC requested to interact with BIS with intimation to ERPC and get certified as per CEA direction. The matter is getting reviewed by highest authorities with top priority.

In the 103rd PSOC meeting, O&M stated that two Nos. of Firms have responded. Discussion with the participants is in progress.

CGM (O&M) may deliberate the status.

C.8: Reporting of Energy generated from renewable resources on daily basis

Government of India has set an ambitious target to achieve 175 GW of renewable generation by year 2022. Renewable energy sources (RES) development division of CEA along with MNRE is continuously monitoring the progress in installation of renewable resources and also collecting actual generation data on monthly basis. However the energy injected from the renewable generating plants into the grid also needs to be monitored on daily basis and incorporated in the reports by NLDC, to determine the correct percentage of energy mix for whole country on any particular day. Thus the renewable generators/ concerned SLDC may furnish following data on daily basis:

a) Grid connected RES whose scheduling and metering is done as regional entity:
Maximum / Time and energy injected (MWh) for the previous day (from the SEM meters on a daily basis till the AMR is commissioned/working)

b) Grid connected RES which is under State purview:

Maximum/Time and energy injected (MWh) for the previous day. Concerned SLDCs to compile station wise / connection point wise energy injected into the state grid and send it RLDC on a daily basis.

The above data may be sent by mail to erldc.cal@gmail.com positively by 01:00hrs of the day in respect of data for the previous day. This is essential as the power supply report has to be sent by early morning hours for the previous day.

It was deliberated that SLDC shall provide the data in respect of the RES connected to grid with dedicated feeder.

In the 103rd meeting, SLDC stated that the Renewable generation sources have been intimated. Reporting of hourly generation will be commenced from 1st December'2016.

SLDC / GRIDCO may deliberate.

C.9: Implementation of Automatic Demand Management Scheme

OPTCL vide mail dated 24.02.2016 pointed that Hon'ble CERC vide their order dated 31.12.2015 passed in Sou-motu Petition No.- 5/SM/2014 in the matter of non-compliance of Regulation 5.4.2 (d) of IEGC directed all Respondents (SLDCs) for implantation of ADMS in their respective control area. CERC have allowed dead line till 30.06.2016 to the Respondent for implementation of ADMS. Failing which they will be liable for action under Section 142 of the Act.

A team of officers had visited Gujarat SLDC on 30.08.2016 to observe the implementation of ADMS in their State. It was found that a separate type of RTU known as "Client RTU" has to be installed in the grid sub-stations where the pre identified 33kV feeders (to be isolated under ADMS) are located. These are in addition to the existing RTUs. One ADMS server shall be installed at SLDC which will acquire data from SCADA server to compare the over drawal of the State and Discoms and send the signal to the client RTU for isolation of the pre identified 33kV feeders. Since, all these activities are related to SCADA & communication, Telecom wing need to be involved for implementation of the scheme. A team is to be constituted with Telecommunication, SLDC & OPTCL Engineers for this purpose.

One presentation was made by M/s Kirti Telnet, Ahemedabad, the agency provided ADMS solution to Gujarat on 17.10.16 in the Conference Hall of GRIDCO. SLDC shall float tender for this purpose.

In the 103rd meeting, SLDC stated that Technical specification for tendering will be done by 15th December. O&M stated that SLDC may confirm whether separate RTUs are required or not in view of S/S automation scheme taken up by OPTCL.

Members may discuss. Discoms / CGM (Telecom) / SLDC may deliberate.

C.10: Tie bay of 125MVAR Bus reactor and 400kV Indravati-Indravati and Indravati(PG):

Under outage wef 18/03/16 due to R-Ph pole bursting of Tie CB. Due to non-availability of the tie bay, the Buses are coupled only via the tie bay of 400kV Rengali-Indravati and 400kV Indravati-Jeypore at Indravati and any outage of the lines would result in decoupling of the Buses.

As per the minutes of special meeting convened by Member Secretary, ERPC for resolving O&M issues between OPTCL, OHPC and POWERGRID for lines, bays and equipment held on 17.06.2016, "400kV bays (2nos.) Odisha bays in POWERGRID 400kV Indravati sub-station – POWERGRID will carry out routine O&M for the bays."

In 125th OCC, Powergrid informed that main CB has some problem which will be taken care by OHPC/OPTCL.

It was deliberated that OPTCL has taken action for installation of breaker & CT. The joint inspection of line is under progress.

In the 102nd meeting CGM (O&M) stated that the installation of tie breaker will be done by November'2016. The 400 kV Indravati-Indravati (PG) line has taken over by OPTCL. Minor

maintenance of the bay and associated equipments will be done by the respective Grid owner. However, the cost will be borne by the equipment owner.

In the 103rd PSOC meeting, CGM (O&M) stated that 400 kV Indravati (PH)-Indravati (PG) SC line has already been taken over by O&M. Tender has been floated for transportation of CB.

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

C.11: Operational Load Flow Study for off-peak period (winter lean period)

OCC felt that another set of data may be collected during lean winter for simulation of off-peak load flow scenario. It is proposed that 28th & 29th December, 2016 may be considered for the lean winter period off-peak load flow study & all constituents are requested to provide the relevant data for off-peak load flow study.

In the 127th OCC meeting of ERPC:

PRDC informed that the detailed report of load flow study on data of 26th & 28th August, 2016 will be submitted to ERPC secretariat by next week.

Further for lean off-peak load flow study, OCC finalized the date and time as follows

13.00 Hrs of 28th December, 2016.

02:00-03.00 Hrs of 29th December, 2016

GM, ERLDC informed that the overvoltage phenomenon is predominant in the month of January.

So, the off-peak study may also be carried out for January so that a proper overvoltage scenario can be obtained. After discussion OCC decided that another study for January, 2017 may also be done apart from the December study.

CGM (O&M) may please deliberate.

C.12: Transfer capability determination by the states -- Agenda by NPC

In order to ensure, safe and secure operation of the grid, the states should carry out the power system study for operational planning and power transfer capability through their respective transmission links with the rest of the grid.

It was decided in the NPC meeting that to begin with, power system study for assessment of operational limits / power transfer capability for each state will be done by the concerned RLDC in association with concerned SLDC. Monthly TTC /ATC will be uploaded by the SLDCs at their respective websites and also communicated to concerned RLDC & NLDC subsequently.

In 120th OCC, DVC informed that they are providing the monthly TTC/ATC on their website.

WBSETCL informed that they are calculating the TTC/ATC but their website is under construction.

Bihar and OPTCL agreed to implement.

JUSNL informed that they are unable to compute the TTC/ATC for their state.

OCC advised JUSNL to interact with ERLDC to get acquainted with the ATC/TTC calculation.

In the 127th OCC meeting of ERPC, OCC advised all the SLDCs to calculate ATC / TTC for Dec-16 / Jan-17 and submit it in next OCC meeting.

SLDC may please deliberate the status.

C.13: Mock Black start exercises in Eastern Region

Mock black start exercise in respect of Rengali PH was scheduled to be conducted on during November 2016.

OHPC / SLDC may deliberate.

PART-D – Operational Issues

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

Non compliance of drawal schedule messages issued to Discoms during the month of Nov'16:

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)	Over drawal (%)
1	CESU	4	6.726	1.16
2	WESCO	15	13.423	2.62
3	NESCO	7	2.347	0.58
4	SOUTHCO	6	6.332	2.54
	Total	32	28.828	

It is noticed that WESCO had overdrawn substantial quantum to the tune of **13.423** MU All other Discoms had also over-drawn during the month.

SLDC/ Discoms may please deliberate.

D.2: Prolonged outage of transmission elements and tentative revival dates

The tentative revival dates of transmission elements are updated in the last meeting are as follows:

Sl.No	Name of transmission element	Reason of outage	Probable date of revival
1	400kV Meramundali-Mendhasal ckt.	Tower Collapse at Loc-180, 181 & 182	December 2016
2	400/220kV, 315 MVA ICT-I at Meramundali	Burnt	

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

D.3: Communication issues

Installation of communication equipment by CGPs / Industries.

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

Sl.	Name of CGP	Present status
1	M/s IFFCO, Paradeep	Outdoor commissioning work completed. RTU was locally tested. After replacement of the faulty CVT, data will be integrated.
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 Rohit Ferro tech	PLCC established and inspection by Telecom Engineers completed. Database has already been prepared by OPTCL.
5	BPSL	No kV
6	CONCAST	No kV/Hz.
7	BSL	No Hz & status data.
8	JSL	No Bus kV / Hz (for Bus-2)
9	TSIL	No data
10	VISA	CB & Status data are not available
11	Paradeep	Data not available at ERLDC
12	Bolangir (New)	Data not available at ERLDC

It was also decided that GCC, OPTCL may file a case before the OERC through RT&C wing of OPTCL against those CGPs not complying the data communication provisions with SLDC.

In the 102nd meeting it was deliberated that CGM (Const) has made a circular to intimate all shutdowns to Telecom wing. CGM (RT&C) has intimated OERC regarding non compliance of data communication facility to SLDC by CGPs. CGM (RT&C) stated that they have already intimated the list of CGPs / Bulk consumers not complying with the provisions of data communication with SLDC.

In the 103rd meeting, SLDC suggested that RT&C wing may approach again to OERC if required through an affidavit.

CGM (Telecom) / GCC/RT&C may update the status

D.4: 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.

SLDC had organized training on web based scheduling on 11.05.2016 for all the CGPs connected with OPTCL network. The feedback of the CGPs has been forwarded to IT wing.

IT wing presented a demo before SLDC on 19th December 2016. It is decided to make a presentation before all the CGPs on 28.12.2016 at SLDC Conference hall.

CGM (IT) / SLDC may deliberate.

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

The work for Automatic Meter Reading (AMR) for all the interface points is in progress.

It was deliberated that that from 1st March onwards the AMR shall be made "Go live". Data will be available after one hour lapses of time.

In the 100th PSOC meeting CGM (IT) stated that by end of August'2016 testing of all meters of CESU control area will be completed for billing purpose. SLDC may check August data from both the meters.

In the 103rd PSOC meeting, DGM (IT) stated that data for 75 nos. of grid sub-stations shall be completed by the first week of December 2016. The feedback of SLDC shall be discussed in a joint meeting.

SLDC / CGM (IT) may deliberate.

D.6: Software for Deviation charge billing.

Hon'ble OERC may notify "Intra State Deviation settlement and related matters" Regulation at any time. For implementation of the regulation, required software for Deviation Charge billing need to be developed and tested. CGM (IT) may take necessary steps for development of the software.

In the 102nd PSOC meeting, CGM (IT) stated that OPTCL BoD have approved for closure of contract with Infosys. SLDC may submit their new requirement if any, along with the left out works.

In the 103rd PSOC meeting, IT stated that data tender document has been prepared. Some disputes with Infosys are yet to be resolved for which legal opinion has been sought for.

CGM (IT) may deliberate the status.

D.7: Intimation of planned outage of grid sub-stations to the CGP / Bulk consumers

As reported by the CGP / Bulk consumers that the planned shutdown of grid substations are not being intimated to them in advance resulting interruption of power import / export through open access. Necessary instructions need to be given to all the sub-stations accordingly.

CGM (O&M) may please deliberate.

D.8: Frequent interruption of SLDC webmail

It is noticed that the email submitted by the Users through SLDC webmail ID is not being received / opened by SLDC. Necessary action needs to be taken for ensuring of mail delivery.

CGM (IT) / SLDC may please deliberate.

D.9: DISCOM Issues

CESU

- (i) The actual drawal for the month of November-16 was 582.671 MU where as the SCADA drawal data received from SLDC was 594.503 MU. There is a difference of 11.832 MU. SLDC may take necessary action for accurate display of drawal data through SCADA. For example actual drawal of CESU on 05.11.2016 at 07:30 Hrs was 855.87 MW and displayed data was 692.76 MW. Also on 20.11.2016 at 02:00 Hrs, the actual drawal data was 570.58 MW against displayed data 667.36 MW.
- (ii) Suspected data at Meramundali, Bidanasi, Paradeep ATs & Balugaon- Chatrapur line.
- (iii) Gridco may intimate the block wise energy received from different sources and sold to different entities for better understanding & transparency.
- (iv) Since open access scheduling is done at SLDC end, DISCOM's CESU open access scheduling & deviation bill calculation / realization may be done at SLDC end keeping open access component from Discom's / CESU overall scheduling & billing fold. Open access charges due from consumers to CESU may be done by SLDC accordingly.
- (v) Allocation of available power in case of shortfall as per the demand ratio of Discoms & not with the fixed ratio as is being practiced at the moment.

CGM (Telecom) / SLDC / CESU may please deliberate.

NESCO

- (i) Total drawl of Auto and feeders from sl. No. 01 to 26, displayed on RVDU is no match with total drawl of NESCO Utility.
- (ii) Provision of storing of drawl data for NESCO Utility on real time basis.
- (iii) Sum of OA schedule given by SLDC on daily basis of a month is no match with final OA schedule given by SLDC of that particular month at the month end.
- (iv) RVDU got failed frequently for more than one day.

CGM (IT) / CGM (Telecom) / NESCO / SLDC may please deliberate.

PART E: OPERATIONAL PLANNING

E.1: 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' 2017.
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. ICT is at BHEL factory. Expected by March'2017.
3	Commissioning of 220 kV Bidanasi-Cuttack line	Work in progress and expected to be completed by December' 2016.
4	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by December' 2016.
5	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by March 2017. Stringing started.
6	Commissioning of 220/132 kV Kesinga S/S	Work under progress. Expected by December' 2017.

132/33kV Grids charged during 2014-15

Sl. No.	Name of Grid	Date of Charging	Provision for no of bays	Feeder Status
1	Argul	06.05.14	4	1. IIT 2. IIT 3. NISER 4. NISER
2	Barbil	02.08.14	5	1. Barbil 2. Bhadrasahi 3. Vacant 4. Vacant 5. Vacant
3	Kuchinda	24.11.14	5	1. Kuchinda 2. Laikera 3. Laida(Proposed) 4. Jamankira(proposed) 5. Kusumi(proposed)
4	Nuapada	27.12.14	5	1. Bishra 2. Khariar Road 3. Vacant 4. Vacant 5. Vacant
5	Boud	28.01.15	5	1. Prunacuttack 2. Boud 3. Badhiapada 4. Chatrang(proposed) 5. Jampalaka(proposed)
6	Sarasmal	13.03.15	4	1. Industrial 2. Kolabira 3. ODSSP(proposed) 4. Vacant
7	Banki	26.03.15	4	5. Banki 6. Sunadei 7. Vacant 8. Vacant
132/33kV Grids charged during 2015-16				
8	Dabugaon	10.04.15	4	1. Dabugaon 2. Papdahandi 3. Medina 4. Kosamguda
9	Umerkote	10.04.15	4	1. Umerkote 2. Adhikariguda 3. Beheda 4. Vacant
10	Konark	29.06.15	4	1. Gop 2. Konark 3. ODSSP(proposed) 4. ODSSP(proposed)
11	Lapanga	11.08.15	4	1. Vacant 2. Vacant 3. Vacant 4. Vacant
12	Kalunga	07.09.15	5	1. IDC 2. Industrial 3. Kalunga 4. Mahaveer Ferro
13	Marshaghai	16.10.15	5	1. Luna 2. Mahakalpada 3. Lift Irrigation(proposed) 4. Vacant 5. Vacant
14	Somnathpur	11.12.15	4	1. HIL 2. Vacant 3. Vacant 4. Vacant
15	Atri	24.02.16	4	1. Vacant 2. Vacant 3. Vacant 4. Vacant
16	Padampur	24.02.16	5	1. Padampur 2. Gaisilat(proposed) 3. Paikmal(proposed) 4. Melchamunda(proposed) 5. Vacant
17	Mania	31.03.16	5	1. Vacant 2. Vacant 3. Vacant 4. Vacant 5. Vacant

132/33kV Grids charged during 2016-17 (till 01.11.16)				
18	Puri(Samangara)	30.05.16	5	1. Sriramnagar
				2. Sriramnagar
				3. Gabakunda
				4. Vacant
				5. Vacant
19	Bangiriposi	03.10.16	4	1. Bangiriposi
				2. Vacant
				3. Vacant
				4. Vacant
132/33kV Grids expected to be charged from Nov 16 to March 17)				
20	Infocity-II	16-Nov	5	
21	Khajuriakata	16-Dec	5	
22	Chandaka B	16-Dec	5	
23	Malkangiri	16-Dec	5	
24	Olavar	17-Jan	5	
25	Potangi	17-Feb	5	
26	Podagada	17-Mar	5	
27	Bonai	16-Nov	5	
28	Kashipur	17-Mar	5	
29	Bhograi	17-Mar	5	
30	R. Udayagiri	17-Mar	5	
31	Tushura	17-Mar	5	

Distribution Utilities have to provide their action plan take-off arrangement.

In the 103rd PSOC meeting, CGM (O&M) stated that 132kV Baripada-Baripada (PG) 2nd circuit is required to cater the load growth of Baripada command area. Spare bay is available at Baripada PG. CGM (Const.) may explore for construction of the 2nd circuit.

He also stated that the required protection standards may be adopted at New Duburi sub-station if not already done. Independent approach to Argul sub-station may also be explored.

AO, WESCO stated that they have estimated the cost involved in the take off arrangement & sent to Government for funding after due approval of District Committee. Take off arrangement for Lapanga shall be done only after ESCROW relaxation. Gisilate feeder shall be taken up from their own funding. Other Discoms may follow the similar procedure.

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

E.2: Energy Metering at Hydro stations.

Energy meters have already been installed at all hydro stations. Billing for all OHPC stations is being done from the newly installed energy meters.

On completion of the above energy accounting for hydro stations will be taken up by SLDC.

In the 101st PSOC meeting OHPC stated that TTPS feeder meter at Rengali PH is yet to be changed. Sr. G.M. Indravati PH stated that ICT-II meter at Indravati is not recording correctly. O&M may take necessary action for rectification of the meters at those hydro stations, so that energy accounting for hydro stations will be taken up by SLDC.

In the 103rd PSOC meeting, Sr. G.M., UIHEP stated that PT problem at Indravati will be resolved by January 2017. OHPC also stated that TTPS feeder meter at Rengali PH has again showing error. OHPC may intimate OPTCL for rectification through the supplier.

GRIDCO / OHPC / O&M / SLDC may please deliberate.

E.3: Major Events in the month of November'16

220kV Bidanasi-Cuttack circuit idle charged on 29.11.2016.

E.4: Important Grid Incidences during the month of November'16.

On 12.11.16 at 23:11 hrs 400/220 kV, 315 MVA ICT-I tripped on both sides on differential and PRV operation. 400 kV Kaniha and Angul-I tripped at Meramundali on 'B' ph to E/F, D/P. Simultaneously, all the 220 kV feeders in bus-I i. e 220 kV Bhusan Ckt-II, 220 kV TTPS Ckt-I & II, 220 kV Bidanasi Ckt, 220 kV Bhanjanagar Ckt-II tripped at Meramundali and 220 kV NALCO Ckt-I & II, 220 kV Bhusan-I tripped at other end due to bursting of 'B' ph bushing of ICT-I which caught heavy fire at Meramundali S/S.

Members may please discuss.

E.5: Outage of major transmission Elements during the month of November'16. (above 10 hrs).

Outage of major transmission elements above 10 hours is as detailed.

Sl No	Transmission lines	Tripping Dt/time	Restoration Dt/time	Reason
1	220 kV Theruvali-Bhanjanagar Ckt-II	04.11.16 03:21	04.11.16 16:53	Line patrolling was done but no fault found.
2	132 kV Jaynagar-Machhkund Ckt	17.11.16 00:00	17.11.16 20:30	'Y' ph jumper snapped between CT to isolator at Machhkund PH.
3	220 kV Balasore-New Duburi Ckt	19.11.16 13:49	20.11.16 12:56	'Y' ph, 'B' ph insulator damaged at Loc. No-112.
4	220/132 kV, 100 MVA Auto-II at Bidanasi	27.11.16 17:33	28.11.16 18:50	220 kV side 'Y' ph LA damaged.

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

E.6: High Voltage problem at BPPL 132kV bus (agenda by BPPL)

- 1) After interference of OPTCL O&M, it has been observed that maximum system voltage in Aarati-Chowdwar circuit(LILO at TS ALLOYS switching station) has been reduced by 2kv and remains 143kV when Grid Demand is less(during 22 hrs to 6 hrs). So it is again requested to look into it for further reduction in nominal voltage so that it does not hamper the required/scheduled evacuation during off peak hours.
- 2) It has been observed since, sometimes Voltage limit of Aarati-Chowdwar circuit at LILO 132 kV bus, suddenly raises from 135 to 141 KV during day hours too, it is happens when inter - connected 132kV Choudwar -Bidanasi circuit is hand tripped/dis-connected, hence SLDC is requested to ensure the above linked circuit always to be in connected condition.
- 3) It is requested to both the connectivity GRID substation in charges to communicate BPPL's switchyard control room prior starting of any of operational/changeover activities at their end in order to alert BPPL for avoiding any kind of unnecessary unit tripping.
- 4) As per BPPL's request there was a meeting held on 11th November among OPTCL / SLDC / CESU for finalisation of metering scheme under existing energy meters on parallel operation of both the connectivity, where all the doubts of all concerned were cleared, However, CESU had taken one week time for clearing the matter. Till date, matter is yet to be resolved from CESU's end. It is requested to interfere further, so that Parallel operation of both the units can be started in order to obtain more system stabilisation.

C.G.M. (O&M) / CESU / BPPL may please deliberate.

E.7: Review of Outage Program of State Generators / Transmission elements for the month of Jan'17:

Tentative Outage programme for State Generators for the month of **January'2017** are as follows:

Sl.	Station	Unit	Period	Remarks
1	Burla	# 1	01.12.16 to 25.12.16	Annual Maintenance
		# 2	22.07.16 to 31.01.17	Capital Maintenance
		# 5	25.10.16 to continue	Under R,M & U
		# 6	16.10.15 to continue	Under R, M & U
2	Chiplima	# 2	06.01.17 to 31.01.17	Annual Maintenance
		# 3	15.10.15 to continue	Under R,M & U
3	Balimela	# 1	05.08.16 to continue	Under R,M & U
		# 8	07.11.16 to 28.02.17	Excitation problem
4	Rengali	# 2	01.01.17 to 31.05.17	Dismantling of TG runner disc with collar
5	Upper Kolab	# 2	14.12.16 to 13.01.17	Annual Maintenance
6	Upper Indravati	# 1	19.12.16 to 16.01.17	Annual Maintenance

OHPC / SLDC may deliberate.

E.8: Generation Program for the month of January'17.

Generation schedule for the month of January'17 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.12.15	Reservoir Level as on 01.12.16	MDDL	High Flood Reservoir Level
	Dec'16 (1 st fortnight)	Dec'16 (2 nd fortnight)				
HPS-I, Burla	30	30	625.29ft	629.23 ft	590 ft.	630 ft.
HPS-II, Chipilima	20	20	-	-	-	-
Balimela	150	150	1501.00 ft	1506.70 ft	1440 ft.	1516 ft.
Rengali	50	50	118.61 mt	122.90 mt	109.72m	123.5 mtr.
U.Kolab	80	80	855.96 mt	856.34 mt	844 mtr	858 mtr.
U. Indravati	200	200	634.91 mt	638.90 mt	625mtr	642 mtr
MKD (O/D)	40	40	2746.05 ft	2744.80 ft	2685 ft.	2750 ft.
TOTAL	570	570				

OHPC may deliberate & Members may discuss.

E.9: Anticipated power generation and demand for the month of January'2017.

Sl. No	Discom	Average	Peak
1	CESU	850	1150
2	WESCO	800	1050
3	NESCO	690	850
4	SOUTHCO	360	500
6	Total	2700	3550
Availability			
1	Hydro	570	1100
2	State Thermal	750	750
3	IPP, small hydro &RE	700	700
4	ISGS share (including OA)	800	900
5	CGP support (OA)	150	150
6	Total availability	2970	3600
7	Surplus / Deficit	270	50

Members may discuss.

PART F: OTHER ISSUES

F.1: Date and Venue of the next (105th) PSOC meeting.