

Odisha Power Transmission Corporation Ltd.
Bhubaneswar.



Agenda
for
100th Power System Operational Coordination Meeting

Date: 27.08.2016

Venue: Hotel Sandy's Tower, Bhubaneswar

Agenda for 100th PSOC Meeting to be held on 27.08.2016 at Hotel Sandy's Tower, Bhubaneswar

Item no. 1: Confirmation of the minutes of the 99th PSOC Meeting held on 24.07.2016

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2015/2318⁽⁴³⁾ dated 09.08.2016 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 July'2016
- C.1: Status of projects funded under PSDF scheme
C.2: Operational Load Flow study for off-peak period
C.3: Restoration of PLCC system of important lines
C.4: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s
C.5: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.
C.6: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.
C.7: Implementation of Automatic Demand Management Scheme (ADMS)
C.8: Mock Black start exercise
- D.1: Non-compliance of drawal schedule by DISCOMs
D.2: Revival of Station transformer for station auxiliary supply at Balimela HEP
D.3: Prolonged outage of transmission elements and tentative revival dates
D.4: Communication issues
D.5: Web based drawal / generation scheduling.
D.6: Implementation of Automatic Meter Reading for OPTCL-Discom interface points.
D.7: Software for Deviation charge billing.
D.8: Outage planning of transmission elements
D.9: PAFM for OHPC stations
D.10: BPPL Issues
D.11: DISCOM Issues
- E.1: Commissioning status of New Transmission elements.
E.2: Energy Metering at Hydro Stations.
E.3: Installation of feeder meter at TTPS.
E.4: Major Events in the month of July'16
E.5: Important Grid Incidences during the month of July'16.
E.6: Outage of major transmission Elements during the month of July'16. (above 10 hrs).
E.7: Review of Outage Program of State Generators for the month of September'2016.
E.8: Generation Program for the month of September'16.
E.9: Anticipated power generation and demand for the month of September'2016.
- F.1: Date and Venue of the next (101st) PSOC meeting

PART B: GRID PERFORMANCE

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

(A) Frequency:

Hourly frequency variation for the month of July'16.

Month	% of time frequency remained				
	<49.00	49.00-49.70	49.70-49.90	49.90-50.05	>50.05
May'16	0.00	0.04	10.30	75.53	14.13
June'16	0.00	0.06	11.59	78.29	10.06
July'16	0.00	0.04	6.92	80.09	12.95

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

Month	Freq (Hz)	Date	Time
June'16	Maximum – 50.17	10.06.16	17:00 Hrs
	Minimum – 49.70	16.06.16	20:15 Hrs
July'16	Maximum – 50.25	02.07.16	08:00 Hrs
	Minimum – 49.78	07.07.16	21:30 Hrs

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

Month	Demand		Maximum Consumption		Maximum Demand			Minimum Demand		
	MU	Avg. (MW)	MU	Date	MW	Date	Time	MW	Date	Time
June'16	2291	3182	81.26	13.06.16	4052	24.06.16	21:00	2403	01.06.16	18:00
July'16	2410	3239	81.19	23.07.16	4072	23.07.16	21:00	2609	31.07.16	15:00
July'15	2337	3141	79.59	05.06.15	3994	04.07.15	21:00	2431	25.07.15	16:00

Members may please discuss.

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

Sl. No	S/s Name	Maximum			Minimum		
		kV	Day	Time	kV	Day	Time
1	Jayanagar	243.98	31	12:00	226.66	7	20:30
2	Theruvali	235.96	21	09:00	210.32	14	19:45
3	Bhanjanagar	237.92	31	14:45	216.96	29	19:15
4	Chandaka	233.59	31	14:45	204.49	29	20:45
5	Narendrapur	221.00	10	14:15	182.26	06	21:15
6	Joda	239.24	17	06:15	226.66	28	19:30
7	Tarkera	235.44	17	05:45	227.64	29	19:45
8	Bhadrak	238.38	16	16:30	210.84	21	21:00
9	Paradeep	231.68	31	17:00	203.05	05	18:30
10	Budhipadar	235.96	14	17:00	223.89	29	19:30
11	Duburi(O)	236.48	31	16:45	219.68	21	20:30
12	Duburi (N)	231.40	16	16:30	209.57	21	20:15
13	Balasore	236.24	16	16:45	213.38	21	21:15
14	Meramundali	233.18	11	07:15	220.66	28	19:45
15	Bidanasi	239.36	31	14:45	221.52	11	19:15
16	Katapalli	232.38	06	05:00	217.02	14	16:45
17	Nayagarh	234.86	31	14:45	209.34	29	19:30
18	Mendhasal	234.69	31	14:45	207.32	29	20:45
19	Bolangir	232.20	06	05:45	209.98	22	07:45
20	Barkote	236.24	11	06:00	227.82	20	19:45
21	Laxmipur	241.56	31	13:30	222.10	06	21:30

The maximum Voltage of **243.98** kV occurred at Jaynagar 220 kV bus while Narendrapur, 220 kV bus has experienced the minimum Voltage of **182.26** 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 July-16
AUTO TRANSFORMER LOADING FOR THE MONTH OF JULY'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	68.8	25	18:00	5.76	2	10:30	
	1x160	68.32	25	19:00	2.6	21	12:15	
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga, Powmex(I), Rayagada, }	1x100	73.48	13	19:45	7.32	16	15:30	<i>Rayagada & Paralakhemundi can be fed from Machhkund system.</i>
	1x100	69.20	13	19:45	1.04	16	15:15	
NARENDRAPUR 220/132KV { Narendrapur, Narendrapur Tr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana.}	1x160	102.12	7	20:00	37.2	16	10:45	
	1x160	113.72	30	0:15	37	16	10:45	
	1x100	NOT AVAILABLE						
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur}	1x160	96.52	25	19:30	7.76	5	19:30	
	1x160	84.08	25	19:30	6.48	5	19:45	
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri, Kesura, Kaipadar Tr. }	1x100	61.88	29	22:30	20.16	3	1:00	
	1x160	109.08	29	22:45	36.20	3	1:15	
	1x100	68.24	29	22:30	21.56	3	1:00	
	1x160	105.24	29	22:45	34.44	3	1:00	
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x160	NOT AVAILABLE						
	1x100	37.16	11	19:15	6.20	5	8:15	
	1x100	37.04	11	19:15	6.24	5	8:15	
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole, Boinda, Kamakhyanagar, Kalarangi, Nuapatna, Choudwar }	1x160	51.00	20	22:00				
	1x160	50.00	20	22:00				
MERAMUNDALI 220/132 kV {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti, BRG}	3x100	52.40	26	10:15	6.16	16	15:45	
		54.08	28	18:45	3.16	16	15:45	
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town}	3x100	53.64	1	19:45	3.04	10	23:00	<i>Auto-II under shutdown.</i>
		54.20	1	19:45	3.24	10	23:00	
		51.92	1	19:45	2.96	10	23:00	
JODA 220/132 KV { Joda, Tensa, FAP(I), Bolani(I), Nalda Tr., Polasponga, *Rairangpur, Bhalulata traction}	3x100	NOT AVAILABLE						<i>*** - Alternate P/S from Kuchei.</i>
		NOT AVAILABLE						
		NOT AVAILABLE						
BALASORE 220/132 KV { Balasore, Birla Tyre(I), Ispat Alloy(I), Jaleswar, Jaleswar(T)}	2x160	132.20	13	20:45	54.24	6	12:00	
		132.12	13	20:30	55.36	6	11:00	
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh, Brajarajnaragar, Rajgangpur}	2x160	95.72	15	5:45	44.92	29	16:45	
		93.88	15	5:45	44.56	29	16:45	
TARKERA 220/132 KV { Rourkela, Rourkela Tr., RSP(I), Chhend, Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr.}	4x100	68.24	1	16:30	9.72	4	8:00	
		69.28	1	16:15	5.48	20	19:00	
		55.72	29	10:30	5.12	20	19:15	
		67.56	1	16:00	5.36	20	19:00	
KATAPALI 220/132 KV {Chipilima, Bargarh, ACC, Sonapur & Katapali area load.}	1x100	34.28	1	6:00	4.36	21	13:30	<i>Supported by Burla & Chipilima power.</i>
	1x100	34.80	1	5:45	3.60	21	13:15	
	1x160	NOT AVAILABLE						
BHADRAK 220/132 KV {Bhadrak area load, Bhadrak(T), Soro, FACOR (I), Dhamra Port}	3x100	50.64	21	20:45	3.56	5	15:30	
		64.60	6	21:30	4.08	5	11:00	
		NOT AVAILABLE						
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara}	1x160	113.24	11	20:00	26.36	31	17:00	
	1x100	69.76	11	20:00	7.44	25	4:00	
	1x50	NOT AVAILABLE						
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonapur, Saintala, Khariar, Barpalli }	2x160	60.40	24.00	19:45	20.72	13	11:45	
		60.36	24.00	19:45	20.32	13	11:30	
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 during the month of July'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
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
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	455.100	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
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

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 July'16

Source of Power	Energy (MU)
Thermal (TTPS+IB)	526.68
OHPC Stations including Machhkund share	476.25
IPP & CGP Support	526.55
ISGS drawal	880.09
TOTAL	2409.57

(G) Drawal of Machhakund Power

The drawal of Machhakund power up to the month of **July'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
TOTAL	211.633		89.248		113.754	

In the 99th PSOC meeting it was deliberated that:

In case all units of Machhakund in operation, it is not possible to provide matching load for drawal of States share all the times of the day.

Southco stated that the nearby villages are availing power supply directly from Machhakund PH. Installation of breaker is not feasible at the moment.

SLDC stated that the offer of M/s Chemtrol for installation of RVDU at Jayanagar control room, forwarded by CGM (Telecom), has already been sent to CMD. CLD, SLDC stated that the issue of availing State's share will be discussed in the high level meeting scheduled to be held near future.

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 July'16.

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

Members may note.

(I) Status of Open Access applications during the month of July'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	156	0
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
	Total	21	388	2	115	526	17	388	2	93	501	25

PART C – Issues raised in the 124th OCC meeting of ERPC to be held on 23.08.2016

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:

Sl 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.	4.91 Cr.	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. Tender for Sub-station automation will be floated in July-2016.

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

C.2: Operational Load Flow Study for Off Peak Period

Under PSDF funded project for Creation of protection database M/s PRDC have carried out an operational load flow study based on peak data of 26.05.2016. The report is available in ERPC website. During discussions on the study a need was felt for a similar study based on Off-peak conditions.

It was decided in the OCC meeting of ERPC that the data in respect of all the substations are to be recorded at **13:00 Hrs** on **27.08.2016** & **03:00 Hrs** of **28.08.2016** to ERPC. The CGP injection / drawal are also to be recorded. Any up-dation in the transmission network needs to be reported to ERPC / ERLDC. The format in which the data are to be submitted is given below.

Format for collection of Load data for off peak operational Load Flow Study

System demand and sub-station load						
Substation Load details						
State						
Owner						
Substation Name						
Substation Location						
Date(DD:MM:YY) :						
Time (HRS):						
SI No	Bay No.	Bay description (Feeder/element name)	Bay Type*	Nominal Voltage (kV)	Flows	
					MW	MVAr

Bus description		
Bus No.	Voltage Level (kV)	VOLTAGE

*	Transformers, Incoming/ outgoing Lines, Reactors and capacitors
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Format for collection of Shunt reactor Status for off peak operational Load Flow Study

Shunt reactor Status											
Bus Reactor					Line Reactor						
State											
Substation/ Generating station Name											
Substation/ Generating station Location											
Date (DD:MM:YY):											
Time (HRS) :											
SI No.	Connecting S/S bus	Voltage rating (kV)	MVAr rating	Status (In service/out of service)	SI No.	Connecting line		Voltage rating (kV)	MVAr rating	Connecting end (From S/S or To S/S)	Status (In service/out of service)
						From S/S	To S/S				

Format for collection of Generation data for off peak operational Load Flow Study

Generator data									
Generating station details									
State									
Generating station Name									
Generating station Location									
Date (DD:MM:YY):									
Time (HRS) :									
SI No	Generator name	Owned by	Grid Substation Connectivity	Unit capacity (MW) x No. of units	Generating Voltage Level (kV)	Derated MVA	Power Sent Out to Grid (MW)		
							MW	MVAr	

CGM (O&M) may kindly note.

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 & Odisha. 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 123th 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 cos of Rs.5.1 lacs.

It was decided that cost of panel with one year warranty shall be borne by OPTCL. OPTCL may intimate the commissioning date of the panel to ERPC.

CGM (Telecom) may please update the status.

C.4: 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 124th 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.	Only 7 towers left (Severe ROW problem). By Dec, 2016.
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
b.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	December'2016

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

C.5: 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 99th PSOC meeting CGM (IT) stated that the date of tender opening extended up to 29th July'16.

CGM (IT) may please deliberate the status.

C.6: 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 99th PSOC meeting CGM (O&M) stated that BIS have not responded. OPTCL is examining to go for tender.

CGM (O&M) may deliberate the status.

C.7: 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.

In response to the offer for providing consultancy for implementation of ADMS, two numbers firms have given presentation on dated 03.06.16 at PTC, Chandaka.

Subsequently, one of the above participants has responded to the financial bid which is under scrutiny.

A team of officers of SLDC and Telecom will visit Gujarat to interact regarding implementation of the scheme. Chemtrol has agreed to provide hardware and software for additional cost.

In the 99th PSOC meeting it was decided that the Discoms shall identify the 33 kV / 132 kV feeders to be covered under the ADMS by 29th July'16 and intimate to CGM (Telecom) / SLDC, so that the purchase order can be placed.

Members may discuss. Discoms / CGM (Telecom) / SLDC may update the status.

C.8: Mock Black start exercises in Eastern Region

As per the schedule, mock black start exercise in respect of Rengali, & Burla are to be carried out during August'16.

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 **July'16**:

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)
1	CESU	11	2.919
2	WESCO	05	14.323
3	NESCO	10	12.225
4	SOUTHCO	08	9.806
	Total	34	39.273

It is noticed that WESCO had overdrawn to the tune of 14.323 MU followed by NESCO to the tune of 12.225 MU & SOUTHCO to the tune of 9.806 MU while CESU has over drawn 2.919 MU.

SLDC/ Discoms may please deliberate.

D.2: Revival of Station Transformer for Station Auxiliary supply at Balimela HEP.

It was suggested in earlier meetings for revival of station supply for Balimela HEP from Balimela Grid S/S.

In the 99th PSOC meeting Southco stated that the meters at Balimela PH will be installed by 31st August 2016. CLD, SLDC stated that separate metering arrangement is required for recording of colony consumption at Balimela and Upper Indravati.

SOUTHCO / WESCO / OHPC may update.

D.3: 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	Due to water logging near the locations, revival will take time.
2	400kV Meramundali-Vedanta ckt.	Tower Collapse at Loc-34 & 35	July'2016

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

D.4: 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	M/s Vedanta Ltd. (IPP), Jharsuguda	All data stopped reporting since March 2016
6	Vedanta(9X 135 MW)	Some CB / Isolators and kV / Hz point yet to be provided. No response.
7	JSPL, Angul	Status not reporting.
8	BPSL	No DATA
9	CONCAST	No kV/Hz.

Sl.	Name of CGP	Present status
10	BSL	No Hz .
11	JSL	No Bus kV
12	TSIL	
13	VISA	
14	Paradeep	Data not available at ERLDC
15	Bolangir (New)	Data not available at ERLDC

In the 99th PSOC meeting, Vedanta Ltd stated that data communication system from 9x135 MW units has been revived on 15th June 2016.

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.

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

D.5: 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.

In the 99th PSOC meeting CGM (IT) stated that the issues identified by SLDC have been resolved. SLDC may implement the Web based scheduling for GGPs and subsequently for other generators and Discoms.

CGM (IT) / SLDC may deliberate.

D.6: 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 99th PSOC meeting CGM (IT) stated that software for AMR has been developed. The AMR will deliver 15 minute block data. However, the data cannot be utilized in the dashboard for real time monitoring due to mismatch of data pulling time from different locations. Further these data may not be used for ToD billing purpose by Discoms.

SLDC / CGM (IT) may deliberate.

D.7: 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 99th PSOC meeting CGM (IT) stated that M/s TCS will furnish their offer by 27th July2016 for software development.

CGM (IT) may deliberate the status.

D.8: Outage Planning of Transmission elements

It is noticed that “Emergency Shutdown permission request” for transmission elements are being received by SLDC from field units of O&M for the next day. Such shut downs should be treated as planned shutdown. Further shutdown of important transmission elements are being sent by AGM / DGM without the knowledge of GM /CGM. This issue had also been discussed earlier. All field units of O&M may be instructed to distinguish the planned and emergency shutdown. Further shutdown proposal of important transmission elements must be intimated to the higher authority.

CGM (O&M) may deliberate

D.9: PAFM for OHPC Stations

It was decided in the earlier meeting that any discrepancy relating to PAFM for hydro stations shall be intimated to SLDC in the next month. OHPC has requested to revise PAFM of Burla PH for the month of April’2015 after lapses of 16 months.

OHPC may deliberate

D.10: BPPL Issue

- 1) High Voltage during off peak hrs in Aarti-Choudwar ckt lead to tripping of BPPL unit.
- 2) Isolation of 132 kV Choudwar-Bidanasi ckt lead to over Voltage.
- 3) Bidanasi-BPPL-Chandaka circuit has been kept open at Chandaka end, which reduces the flexibility of evacuation. In case of any disturbance at Bidanasi end the unit gets islanded incurring financial loss.
- 4) Line breakers relay set point to be reviewed for both LILO connectivity (Bidanasi-Chandaka as well as Aarati-Chowduar) in order to avoid unnecessary tripping during line fault.
- 5) In spite of all communication that had taken place between SLDC and CESU regarding wheeling of Power to M/s TS Alloys from BPPL, CESU never consider the above transaction on time and releases monthly invoices late regularly, for which BPPL has to face problems in calculating above wheeling of power with TS Alloys and settling electricity duty with Govt. of Odisha.

D.11: DISCOM Issues

CESU

A. CESU has identified technical issues relating to early completion of ongoing S/Ss, augmentation of EHT S/S capacity, conversion of S/C line to D/C, bay extension at different S/Ss etc.

B.

- (i) Mismatch of SCADA drawal with the billing meter during May’16.
- (ii) Fixed data indicated on dashboard may be converted to variable for accurate drawal display.
- (iii) Provision of on line recording of drawal data for CESU on real time basis.
- (iv) Gridco to facilitate for realizing the long outstanding dues of CESU from WESCO & NESCO.
- (v) Suspected data of ESSAR, BPPL, OPCL, IMFA- I & II
- (vi) Instant implementation of schedule revision.

CGM (O&M) / CGM (Telecom) / SLDC / CESU may please deliberate

NESCO

Monthly interruption report of EHT consumers under NESCO Utility may kindly be provided to the Corporate office.

GRIDCO / CGM (Telecom) / 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 December' 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. 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 August' 2016.
4	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by August' 2016.
5	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by March 2017.
6	Commissioning of 220/132 kV Kesinga S/S	Work under progress. Expected by December' 2017.

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

Sl. No	Name of the sub-station	Probable month of commissioning	Name of DISCOM	Action taken by Discoms
1	132/33kV, 2x20 MVA Khajuriakota	July'16	CESU	Action being taken
2	220/33kV, 2x20 MVA Banei	Dec'17	WESCO Utility	Stayed by Court.
3	132/33kV, 2x20 MVA Udala	Dec-17	NESCO Utility	Line existing
4	132/33 kV, 1x12.5 MVA, Mania	Charged	CESU	33 kV line not done by CESU

WESCO shall take action for diversion of 11 kV lines from Jharusuguda S/S.

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, except Upper Kolab, is being done from the newly installed energy meters. The energy meters at Upper Kolab are have been rectified in the mean time.

In the 99th PSOC meeting, OHPC stated that Meter installed at Rengali PH for TTPS feeder is not functioning properly and need to be replaced. It was decided that O&M shall take necessary action for rectification of energy meter at Rengali PH. OHPC shall take action for PT replacement at Indravati ICT-II.

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

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

E.3: Installation of Feeder meters at TTPS.

Meters in all feeders at TTPS have been commissioned. As decided in the 99th PSOC meeting, Energy Accounting for TTPS (NTPC) will be done by considering the newly installed feeder meters from the next billing cycle

GRIDCO / OPTCL/ TTPS / SLDC may please discuss.

E.4: Major Events in the month of July'16

No report of major event has been received by SLDC.

E.5: Important Grid Incidences during the month of July'16.

1. On 11.07.16 at 06:21 hrs due to bursting of 'Y' ph LA at Bhusan S/Y, 220 kV Bhusan Ckt-II tripped at Meramundali on 'Y' ph, Zn-I with pulling out of all other 220 kV feeders, Autos and ICTS at Meramundali on operation of bus bar protection.
2. On 14.07.16 at 16:33 hrs 220 kV Budhipadar-Tarkera Ckt-I tripped on D/P at both ends. Simultaneously all the 220 kV lines at Budhipadar tripped on bus bar protection. At the same time Auto-I & II at Budhipadar tripped, #1 and 2 at IbTPS tripped and Vedanta unit went to house load.

Members may please discuss.

E.6: Outage of major transmission Elements during the month of July'16. (above 10 hrs).

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

Transmission lines	Tripping Date / time	Restoration Date / time	Reason
220 kV Tarkera-Rengali Ckt-II	02.07.16 11:46	03.07.16 14:45	'R' ph insulator damaged at Loc. No-560 and earth wire snapped.
220 kV Budhipadar-Tarkera Ckt-I	14.07.16 16:33	15.07.16 11:36	Line patrolling was done but no fault found.
220 kV Theruvali-Indravati Ckt-II	16.07.16 16:31	18.07.16 17:18	'Y' ph conductor snapped at Loc. No-168
132 kV BC Mohanty-Bamnipal Ckt	17.07.16 16:58	18.07.16 09:21	'Y' ph conductor snapped at Loc. No-11
132 kV Kendrapara-Pattamundai Ckt	25.07.16 06:12	26.07.16 11:41	'B' ph insulator puncture at gantry tower of Pattamundai S/S.

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

E.7: Review of Outage Program of State Generators / Transmission elements for the month of September'16:

Tentative Outage programme for State Generators for the month of **September'2016** are as follows:

Sl.	Station	Unit	Period	Remarks
1	Burla	# 2 # 6 # 1	22.07.16 to 31.10.16 17.02.14 to continue 14.08.16 to 25.08.16	Capital Maintenance Under R, M & U Intake gate problem
2	Chiplima	# 3	15.02.14 to continue	TGB problem and started R,M & U
3	Balimela	# 1	31.01.13 to continue	TGB problem Programming for R,M & U
4	TTPS	# 1	10.09.16 to 24.09.16	Boiler overhauling

OHPC / SLDC may deliberate.

E.8: Generation Program for the month of September'16.

Generation schedule for the month of September'16 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.08.15	Reservoir Level as on 01.08.16	MDDL	High Flood Reservoir Level
	Sept'16 (1 st fortnight)	Sept'16 (2 nd fortnight)				
HPS-I, Burla	150	150	608.39ft	609.08 ft	590 ft.	630 ft.
HPS-II, Chipilima	40	40	-	-	-	-
Balimela	200	200	1484.30 ft	1484.40 ft	1440 ft.	1516 ft.
Rengali	200	200	119.92 mt	115.02 mt	109.72m	123.5 mtr.
U.Kolab	110	110	850.79 mt	850.93 mt	844 mtr	858 mtr.
U. Indravati	200	200	630.37 mt	632.88 mt	625mtr	642 mtr
MKD (O/D)	30	30	2725.30 ft	2727.20 ft	2685 ft.	2750 ft.
TOTAL	930	930				

OHPC may deliberate & Members may discuss.

E.9: Anticipated power generation and demand for the month of September'2016.

Sl. No	Discom	Average	Peak
1	CESU	1050	1450
2	WESCO	900	1150
3	NESCO	850	1000
4	SOUTHCO	420	520
6	Total	3350	4120
Availability			
1	Hydro	930	1550
2	State Thermal	750	750
3	IPP, small hydro &RE	750	710
4	ISGS share (including OA)	850	1000
5	CGP support (OA)	150	150
6	Total availability	3430	4160
7	Surplus / Deficit	80	40

Members may discuss.

PART F: OTHER ISSUES

F.1: Date and Venue of the next (101st) PSOC meeting.