

Odisha Power Transmission Corporation Ltd.
Bhubaneswar.



Agenda
for
91st Power System Operational Coordination Meeting

Date: 28.11.2015
Venue: PTC, Chandaka

Agenda for 91st PSOC Meeting to be held on 28.11.2015 at PTC, Chandaka

Item no. 1: Confirmation of the minutes of the 90th PSOC Meeting held on 17.10.2015

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2015/4037⁽³⁰⁾, dated 05.11.2015 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 A

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

- C.1: Handing over of 2 nos 132 kV bays at 400/220/132 kV Kuche (Baripada) Grid S/s in Odisha.
- C.2: Furnishing of data for Electricity Generation Targets for the year 2016-17
- C.3: Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)
- C.4: Status of PLCC system installed in Eastern Region
- C.5: Third Party Protection Audit
- 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: Pollution mapping for Eastern Region
- C.9: Mock Black start exercises in Eastern Region – ERLDC
- C.10: Restricted Governor Mode of Operation.
- C.11: Information regarding commissioning of new transmission element
- C.12: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s
- C.13: Dynamic data of Generator Models required in PSSE for Simulations -ERLDC
- C.14: Restoration of SCADA data
- C.15: Status of commissioning of generating station and transmission elements
- C.16: Mock Black start exercise in Eastern Region
- C.17: Energy Generation data management from Renewable Energy Sources.
- D.1: Non-compliance of drawal schedule by DISCOMs
- D.2: 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
- D.3: High Voltage at 400 kV Meramundali & Duburi S/S.
- D.4: Revival of Station Transformer for Station Auxiliary supply at Balimela HEP.
- D.5: Prolonged outage of transmission elements and tentative revival dates
- D.6: Communication issues
- D.8: Display of dashboard data.
- D.9: Web based drawal / generation scheduling.
- D.10: Replacement of Battery bank at SLDC data centre.
- D.11: DISCOM Issues
- E.1: Commissioning status of New Transmission elements.
- E.2: Installation of Energy Metering at Hydro / Traction & Solar projects.
- E.3: TTPS Issue.
- E.4: Major Events in the month of October'15
- E.5: Important Grid Incidences during the month of October'15.
- E.6: Outage of major transmission Elements during the month of October'15. (above 10 hrs).
- E.7: Review of Outage Program of State Generators for the month of December'2015:
- E.8: Revised calculation of PAFM for OHPC stations
- E.9: Generation Program for the month of December'15.
- E.10: RSP (SAIL), Rourkela Issue.
- E11: Jindal Stainless Ltd. Issue
- E.12: Anticipated power generation and demand for the month of December'2015.
- F.1: Operating procedure for Odisha System.

PART B: GRID PERFORMANCE

Review of Grid Performance for the month of October'15.

(A) Frequency:

Hourly frequency variation for the month of October'15.

Month	% of time frequency remained				
	<49.00	49.00-49.70	49.70-49.90	49.90-50.05	>50.05
Aug'15	0.00	0.14	11.04	66.58	22.23
Sept'15	0.00	0.38	24.55	61.04	14.03
Oct'15	0.00	0.03	11.64	66.83	21.51

Maximum & Minimum frequency during the month of October'15.

Month	Freq (Hz)	Date	Time
September'15	Maximum – 50.35	20.09.15	16:03 Hrs
	Minimum – 49.54	03.09.15	19:12 Hrs
October'15	Maximum – 50.21	28.10.15	13:00 Hrs
	Minimum – 49.71	17.10.15	18:15 Hrs

(B) Grid Demand for the month of October'15.

Month	Demand		Maximum Consumption		Maximum Demand			Minimum Demand		
	MU	Avg. (MW)	MU	Date	MW	Date	Time	MW	Date	Time
Sept'15	2258	3137	79.52	04.09.15	3849	09.09.15	22:00	2388	20.09.15	14:00
Oct'15	2363	3177	79.64	19.10.15	4157	16.10.15	19:00	2435	13.10.15	14:00
Oct'14	2123	2854	79.82	01.10.14	3717	26.10.14	19:00	1677	12.10.14	15:00

Members may please discuss.

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

Sl. No	S/s Name	Maximum			Minimum		
		kV	Day	Time	kV	Day	Time
1	Jayanagar	245.71	2	16:00	224.12	31	13:00
2	Theruvalli	236.53	2	17:00	210.90	31	14:00
3	Bhanjanagar	234.40	15	07:45	216.04	30	15:30
4	Chandaka	230.01	15	08:00	210.21	19	18:30
5	Narendrapur	222.50	29	14:15	182.98	17	18:15
6	Joda	239.47	23	07:00	226.34	12	19:15
7	Tarkera	234.17	31	02:30	222.10	6	18:15
8	Bhadrak	234.51	8	06:00	196.00	1	00:00
9	Paradeep	230.82	3	15:45	200.91	11	18:30
10	Budhipadar	231.40	28	13:15	223.25	13	18:45
11	Duburi(O)	235.96	31	02:45	220.25	11	18:45
12	Duburi (N)	223.37	31	03:00	208.24	11	18:45
13	Balasore	234.34	28	13:15	202.53	19	00:00
14	Meramundali	229.55	15	08:00	219.62	11	18:45
15	Bidanasi	232.20	31	23:45	217.37	5	18:45
16	Katapalli	229.78	31	02:30	210.84	19	19:00
17	Nayagarh	231.28	15	08:00	220.21	1	14:45
18	Mendhasal	230.18	15	08:00	211.36	19	18:45
19	Bolangir	228.39	17	09:00	195.95	19	19:15
20	Barkote	246.17	13	12:30	223.06	15	18:15
21	Laxmipur	243.63	02	17:00	221.06	31	14:00

The maximum voltage of 246.17 kV & 245.71 kV occurred at Barkote & Jaynagar 220 kV bus respectively while Narendrapur, Bhadrak & Bolangir bus 220 kV bus have experienced the minimum Voltage to the tune of 182.98 kV, 196 kV and 195.95 kV respectively.

Members may discuss.

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

Source of Power	Energy (MU)
Thermal (TTPS+IB)	552.15
OHPC Stations including Machhkund share	472.02
IPP & CGP Support	803.34
ISGS drawal	535.90
TOTAL	2363.40

**(E) Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of Oct-15
AUTO TRANSFORMER LOADING FOR THE MONTH OF OCTOBER'2015**

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	74.72	18	19:45	1.8	17	14:15	
	1x160	75.08	18	20:45	6.68	26	9:15	
THERUVALLI 220/132 KV. {Theruvalli, IMFAL(I), JK(I), Junagarh, Kesinga,Powmex(I), Rayagada, }	1x100	83.44	23	18:30	20:48	30	8:45	Rayagada & Paralakhemundi can be fed from Machhkund system.
	1x100	78.88	23	18:30	20:00	29	8:30	
NARENDRAPUR 220/132KV { Narendrapur, NarendrapurTr, Berhampur, Chhatrapur, Ganjam, Balugaon, Digapahandi, Mohana.}	1x160	110.76	28	17:45	16.92	30	8:45	
	1x160	117.44	18	3:15	4.76	29	8:30	
	1x100	NOT AVAILABLE						
BHANJANAGAR 220/132 KV { Bhanjanagar, Aska, Phulbani, Ganjam, Chatrapur}	1x160	107.76	29	19:00	14.68	2	10:45	
	1x160	102.16	27	12:00	13.00	28	11:00	
CHANDAKA 220/132 KV { Chandaka, Bhubaneswar, Nimapada, Ransinghpur, Puri,Kesura, Kaipadar Tr. }	1x100	74.32	19	18:30	2.64	15	9:00	
	1x160	130.88	19	18:45	25.96	8	17:00	
	1x100	81.36	19	18:00	16.48	8	17:00	
	1x160	125.52	19	18:45	19.68	15	9:15	
BIDANASI 220/132 KV {Bidanasi, Khurda }	1x160	42.72	5	18:45	9.40	12	17:30	
	1x100	42.60	5	18:45	9.28	12	17:30	
	1x100	NOT AVAILABLE						
TTPS 220/132 KV { Chainpal, FCI (I), Angul, MCL Nandira(I), Rairakhole,Boinda,Kamakhyanagar, Kalarangi,Nuapatna, Choudwar }	1x160	NOT AVAILABLE						
	1x160	NOT AVAILABLE						
MERAMUNDALI 220/132 kv {Meramundali Traction, Dhenkanal, Navchrome(I), Hind Metal, Aarti,BRG}	3x100	53.40	8	17:45	1.24	7	16:00	
		52.24	8	17:45	1.28	7	16:00	
		51.12	9	19:00	0.68	15	8:45	
DUBURI 220/132 KV {Duburi, Bamnipal(I), BRPL, MESCO, Jajpur Road, Kalarangi, Jajpur Town}	3x100	65.2	8	19:15	0.12	13	8:00	Auto-II under shutdown.
		NOT AVAILABLE						
		63.24	8	19:15	0.04	13	8:00	
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	124.96	1	20:15	51.16	13	17:45	
		125.32	1	20:15	31.48	13	17:45	
BUDHIPADAR 220/132 KV { Jharsuguda, Jharsuguda Tr, Cemco(I), MCL, Sundergarh,Brajarnagar, Rajgangpur}	2x160	114.44	11	17:30	37.24	29	21:30	
		115.2	11	17:30	34.52	29	21:30	
TARKERA 220/132 KV { Rourkela, Rourkela Tr.,RSP(I), Chhend, Adhunik Metal, Rajgangpur, OCL(I), Rajgangpur Tr.}	4x100	64.48	14	19:15	8.00	19	12:30	
		68.40	14	19:15	11.52	8	18:15	
		54.92	14	19:00	10.68	8	18:15	
		65.72	14	19:00	12.72	8	18:15	
KATAPALI 220/132 KV {Chipilima,Bargarh, ACC,Sonepur & Katapali area load.}	2x100	91.16	18	10:00	1.86	25	21:45	Supported by Burla & Chipilima power.
		93.92	18	9:45	0.96	25	21:45	
BHADRAK 220/132 KV {Bhadrak area load, Bhadrak(T),Soro, FACOR (I), Dhamra Port}	3x100	UNDER SHUT DOWN						
		73.76	2	21:00	0.88	9	5:45	
		NOT AVAILABLE						
PARDEEP 220/132 KV { Paradeep, Kendrapada, Pattamundai, Chandikhol, Cuttack, Jagatsinghpur, Phulnakhara}	1x160	126	23	21:15	6.50	18	12:30	
	1x100	77	23	21:15	1.44	3	15:15	
	1x50	NOT AVAILABLE						
BOLANGIR (SADAIPALLI) 220/132 KV { Bolangir, Patnagarh, Sonepur, Saintala, Khariar, Barpalli }	2x160	56.12	26	19:00	1.08	10	8:45	
		55.44	26	19:00	5.64	17	9:00	Auto-II under shut down.
Lapanga	1x160	NOT AVAILABLE						
	1x160	NOT AVAILABLE						
Mendhasal	1x100	NOT AVAILABLE						
Samangara	1x100	NOT AVAILABLE						

(F) Drawal of Machhakund Power

The drawal of Machhakund power up to the month of October'15 are as detailed:

Month	Total Generation (MU)	Odisha Drawal (MU)	AP Drawal (MU)
April'15	60.537	26.706	31.114
May'15	38.508	17.300	19.478
June'15	24.556	8.927	14.345
July'15	52.6518	24.036	26.266
August'15	60.393	29.393	28.749
September'15	43.426	18.045	23.316
October'15	54.825	25.288	27.537

Earlier, it was decided that Jayanagar S/S shall explore the drawal during off peak period by providing matching load.

In the last meeting, it was decided that OHPC shall convene a meeting with Machhakund authority to decide the modality for states power drawal from Machhakund. SLDC shall place requisition for providing a RVDU at Jayanagar control room for monitoring of Machhakund generation & drawal in real time basis. Southco shall expedite the construction of 33 kV line to connect Gumuda with Akhusing S/S.

OHPC / SLDC/ Southco Utility may deliberate.

(G) DISCOM Drawal up to the month of October'15

Name of DISCOM	Month	Approved Energy Drawal Prorated for the month (MU)	Scheduled Energy (MU)	Actual Energy Drawal (MU)	Open Access Import Schedule (MU)	Net Energy Drawal (MU)	Overdraw (MU)
		1	2	3	4	5=(3-4)	6=(5-2)
CESU	April'15	721.644	676.468	700.852	3.892	696.96	20.492
	May'15	745.699	741.683	803.331	4.582	798.749	57.066
	June'15	721.644	680.782	731.303	4.094	727.209	46.427
	July'15	745.699	682.482	747.814	4.552	743.262	60.78
	Aug'15	745.699	730.38	787.091	1.844	785.247	54.867
	Sept'15	721.644	668.276	716.483	1.247	715.236	46.96
	Oct'15	745.699	729.776	733.265	3.606	729.659	-0.117
WESCO	April'15	604.11	569.419	692.842	124.592	568.25	-1.169
	May'15	624.247	608.011	742.524	132.217	610.307	2.296
	June'15	604.11	571.331	677.972	107.811	570.161	-1.17
	July'15	624.247	550.147	716.622	102.587	614.035	63.888
	Aug'15	624.247	571.706	700.166	107.046	593.12	21.414
	Sept'15	604.11	530.99	668.478	96.912	571.566	40.576
	Oct'15	624.247	550.739	732.87	124.713	608.157	57.418

NESCO	April'15	431.507	412.235	432.73	17.888	414.842	2.607
	May'15	445.890	452.964	475.162	19.32	455.842	2.878
	June'15	431.507	428.938	458.649	23.262	435.387	6.449
	July'15	445.890	429.905	462.235	29.387	432.848	2.943
	Aug'15	445.890	460.083	495.915	31.255	464.66	4.57702
	Sept'15	431.507	417.33	486.661	38.715	447.946	30.616
	Oct'15	445.890	449.492	493.603	41.506	452.097	2.605
SOUTHCO	April'15	281.096	275.391	264.684	0	264.684	-10.707
	May'15	290.466	277.641	285.102	0	285.102	7.461
	June'15	281.096	253.054	263.675	0	263.675	10.621
	July'15	290.466	282.015	285.292	0	285.292	3.277
	Aug'15	290.466	285.264	290.409	0	290.409	5.145
	Sept'15	281.096	252.453	257.882	0	257.882	5.429
	Oct'15	290.466	279.951	281.598	0	281.598	1.647

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.

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

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

Members may note

PART C – Issues raised in 115th OCC meeting of ERPC held on 20.11.15

C.1: Handing over of 2 nos 132 kV bays at 400/220/132 kV Kuchei (Baripada) Grid S/s in Odisha.

As discussed in the Standing Committee meeting held in New Delhi on 08.02.2012, OPTCL has been allotted 4 nos. 132 kV bay at Kuchei Grid S/s in Odisha. During site visit by OPTCL for connection of 2 nos.132kV feeders from Kuchei –Jaleswar line, there is not sufficient space for termination. It was noticed that 2 nos. equipped 132kV bay meant for Jharkhand is available at Kuchei S/s lying un-utilised and is learnt that the same bays shall not be used in near future. It was also informed that JUVNL is yet to construct 132kV line that will be connected with these 2 nos. bay. Since these 2 nos. bay cannot be used by Jharkhand and the guarantee period of equipment / materials will expire, it is better OPTCL, can immediately use these bays for its line, which is going to be completed within next 3 to 4 months.

JUSNL agreed to spare the bays for use of OPTCL.

CGM (Const.) may deliberate.

C.2: Furnishing of data for Electricity Generation Targets for the year 2016-17

You are aware that the annual exercise of assessment and finalization of the generation targets and the planned maintenance schedules of the generating units for the year 2016-17 is being initiated by CEA. Although the generation performance of the various stations and their planned & unscheduled outages

are regularly monitored in CEA but it is felt that a more realistic projection of month-wise generation in the coming year could be made by the respective Station Authorities.

While monitoring the generation performance during the current financial year, it has been observed that power utilities are facing the problem of loss of generation due to no / low schedules and losses accounted on other technical and commercial egresses. Accordingly, it is requested that the following inputs may kindly be submitted to this office as per the enclosed

Annexure:

i) (**Annex- I (point no. 1 to 5)**) The unit-wise proposed generation during 2016-17 (monthly and yearly) along with anticipated generation during 2015-16, the anticipated loss of generation on account of various constraints (e.g. Grid Constraints/ Low schedules/ Reserve shutdown /high fuel cost) may be accounted and furnish with necessary details. The details of units like boiler/ turbine make, date of commissioning etc may also be furnished.

ii) (**Annex –I (point no. 6)**) Utilities who have their Power Purchase Agreement (PPA) with various Discoms, Trader, states etc. and the details may be furnished in MW for Long and Medium term Agreement for assessing the expected generation for next year.

iii) (**Annex- I (point no 7 (a) and (b))**) The details of coal linkages from coal agencies and availability of gas/ liquid fuel.

iv) (**Annex – I (point no. 8)**) Unit wise cost of generation and rate of sale of power.

v) (**Annex- II**) Detailed unit-wise schedule of Planned Maintenance (approved by the respective Regional Power Committees) and R&M to be carried out during 2016-17 may also be furnished.

The information may please be furnished electronically at the email address

targetopmcea@gmail.com, kiran.meena@nic.in with a copy to ERPC (e-mail: mserpcpower@nic.in) latest by 31st October, 2015.

For any inconvenience in submission of data you may contact Mrs. Kiran Meena, Assistant Director, CEA, Ph- 011-26732684, Mob.08588831051 or write to the following address:

Chief Engineer (OPM Division), Room No.604 (N), Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066, Ph. 011-26105026 (Telefax)

For your convenience the input formats are also being made available at CEA website <http://www.cea.nic.in> in Whats New/ Flash News and ERPC website www.erpc.gov.in.

NTPC Farakka, TSTPS-Kaniha, **OHPC**, DPL and DGPC have submitted the relevant information

In the last meeting all Generators were requested to submit the data to CEA directly with copy to Gridco / SLDC

It was decided in the ERPC meeting that OPGC shall furnish the required data to CEA by end of this month.

OPGC may update.

C.3: Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)

In 114th OCC, Ind-Barath updated the status as “The unit is also expected to be stabilized by November, 2015.”

Gridco may note.

C.4: Status of PLCC system installed in Eastern Region

In 30th TCC/ERPC, Powergrid agreed to restore the PLCC system at both ends (its own end as well as the constituent end) of a line wherein the other ends are not operational for some reasons or others as one time job.

111th OCC advised Powergrid to place their requirement along with cost estimate as per the Powergrid norms.

In 114th OCC, Powergrid ER-II has submitted the details of their control area. Subsequently, Powergrid-Odisha has submitted the details vide letter dated 6th November, 2015 along with the cost estimate.

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

C.5: Third Party Protection Audit

Status of 1st Third Party Protection Audit:

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

Name of Constituents	Observations	Total Complied	% of Compliance
Odisha	59	38	64.41

As deliberated in the OCC, OPTCL have complied 39 Nos observations out of total 49. The balance 10 nos belong to OHPC and OPGC. OHPC stated that they have complied their observations.

Member Secretary suggested to apply for PSDF for compliance of the observations.

OPTCL/ OPGC / OHPC may please deliberate.

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 on the same 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 last PSOC meeting, it was decided that CGM (IT) shall examine and prepare a Crisis Management Plan for countering the cyber attacks for OPTCL.

CGM (IT) may deliberate.

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 88th OCC NTPC informed that, all NTPC stations in Eastern Region are certified with IS 18001.

NHPC informed that, Teesta is also certified with IS 18001. After that, OHPC and CESC informed that their stations are certified with IS18001.

In 104th OCC, WBPDCI informed that Bandel TPS is certified with IS 18001.

OPTCL vide letter No.TB-SO-MISC-9/2010/1914 dated 20.12.2014 had proposed to go for IS 18001:2007 certification as per direction of CEA.

It was decided in the last PSOC meeting that CGM (O&M) may remind **BIS** again.

CGM (O&M) may deliberate the status.

C.8: Pollution mapping for Eastern Region

The Pollution Mapping work in ER was started with on-site measurement of ESDD and NSDD.

The latest available status is as follows:

Utility	Scope	Installed Locations	Number of locations where 1 st set of Measurements Completed
OPTCL	164	102	99

OCC advised all constituents to complete the 1st set of measurements and send to Powergrid/ CPRI. Powergrid vide mail dated 5th November, 2015 requested to complete the 2nd set of measurements by end of November, 2015, as it is already passed 4 months after completion of 1st set of measurements for the most of the locations.

Powergrid also requested to provide probable pollution sources and direction details near the site with specific details e.g. type of pollution sources (factories, Brick Kiln, Agricultural pollutant, Saline pollutant from sea coast), direction from site, distance from site etc.

CGM (O&M) may update.

C.9: Mock Black start exercises in Eastern Region – ERLDC

Sl. No.	Name of Hydro Station	Schedule (1 st)	Tentative Date	Schedule (2 nd)
1	U.Kolab	Last week of May, 2015	Done on 16/07/2015	Last Week of January, 16
2	Rengali	2nd week of June 2015	Done on 13/10/2015	Last week of November, 15
3	U. Indravati	3 rd week of June 2015	Done on 16/07/2015	2 nd week of February 2016
4	Balimela	1 st week of November,15		1 st week of March 2016
5	Burla		January 2016	

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

SLDC / O&M / OHPC may deliberate.

C.10: Restricted Governor Mode of Operation.

The latest status of units of ER under RGMO is available at ERPC website (<http://www.erpc.gov.in/>) under Operation>Important data.

In 108th OCC, ERLDC informed that the RGMO/FGMO response of the generators needs monitoring on continuous basis.

OCC advised ERLDC to intimate the event of sudden drop in frequency to the generators and requested all generators to provide the RGMO/FGMO response data to ERLDC during the said incidents.

ERLDC informed that on 12.10.2015 there was sudden load loss of 900 MW in NR and they observed 0.11 Hz change in the grid frequency.

As per the data of ERLDC they have received the RGMO/FGMO response only from Burla, Kahalgaon, Teesta-V and SSL generators. The response of other generators are not satisfactory.

In the OCC meeting, reports received from OPGC & Chiplima PH have been handed over to ERLDC. In the OCC meeting, it was decided that hydro units of 10MW capacity & thermal units of 200MW capacity shall intimate the response of governor to ERLDC.

ERLDC intimated that a new web group was formed for sharing governor response of various generator in ER. The url of the group is https://in.groups.yahoo.com/neo/groups/er_gov_respons/info

ERLDC requested to send email ids (preferably Yahoo mail ids) of the Generators where invitation will be sent. Governor response for the event of 12-11-2015 at 23:05 hrs based on ERLDC SCADA data is already posted in the group.

CERC in the RoP dated 14.07.15 in Petition No. 84/MP/2015 filed by NRLDC has directed as under:

“10. The Commission also directed SLDCs to approach their respective SERCs to initiate appropriate action under the Act against the State generating stations which have not provided adequate primary response during both grid events reported by the petitioner.”

All Generators may deliberate.

C.11: Information regarding commissioning of new transmission element

1.400kv Meramundali-New Duburi-I was charged for the first time at 20:20hrs of 19/10/15

2.400kv Jamshedpur-Rourkela-II (Looping up to dead end tower of Chaibasa) was charged for the first time at 19:46hrs of 31/10/15.

C.12: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s

PGCIL has already commissioned the 2 X 315MVA 400/220kV Bolangir S/s by LILOing of 400kV Meramandali-Jeypore S/C line and 400/220 kV Keonjhar S/s with an objective of supplying power from ER grid to its adjoining areas in Odisha.

In 110th OCC, OPTCL updated the completion schedule of inter-connecting system as follows:

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

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

C.13: Dynamic data of Generator Models required in PSSE for Simulations -ERLDC

In the OCC meeting, it was decided that by 15th December 2015, all Generators including CGPs having capacity of 60MW & above shall furnish ERLDC, the generator parameters including exciter, governor, PSS required for modeling in PSSE for simulation. Further, the Generators shall intimate their email Id to ERLDC / ERPC.

Email Id of ERLDC : erldcprotection@gmail.com

Email Id of ERPC : mserpc-power@nic.in

All Generators to note.

C.14: Restoration of SCADA data

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

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

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

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

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

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

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

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

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

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

OPTCL stated that they have resolved the issue. Reversal of CT polarity for two Nos. of units has to be done by NALCO.

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

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

C.15: Status of commissioning of generating station and transmission elements

New transmission elements:

Sl No.	Name of Element	Expected date
1	400 kV IB-Meramundali D/C	October' 2015
2	220 kV Bidansai-Cuttack D/C	March'2016

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

C.16: Mock Black start exercise in Eastern Region

The schedule of the proposed black start exercise for FY 2015-16 is as follows:

Sl. No.	Name of Hydro Station	Schedule (1 st)	Tentative Date	Schedule (2 nd)
1	U.Kolab	Last week of May, 2015	Done on 16/07/2015	Last Week of January, 16
2	Rengali	2 nd week of June 2015	Done on 13/10/2015	Last week of November, 15
3	U. Indravati	3 rd week of June 2015	Done on 16/07/2015	2 nd week of February 2016
4	Balimela	1 st week of November,15	Done on 24/11/2015	1 st week of March 2016
5	Burla			January'2016

C.17: Energy Generation data management from Renewable Energy Sources.

It was suggested in the OCC meeting that the details of newly integrated / upcoming RE sources shall be intimated to ERLDC.

Gridco may please note for necessary action.

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 **October'15**:

Sl. No	Name of Discom	No. of message issued	Over drawal (MU)
1	CESU	4	-0.117
2	WESCO	24	57.418
3	NESCO	6	2.605
4	SOUTHCO	7	1.647
	Total	41	61.553

It is noticed that WESCO had overdrawn a substantial quantum of power to the tune of 57 MU while all the other three Discoms had maintained their drawal schedule.

The real time drawal of all Discoms have been rectified.

SLDC/ Discoms may please deliberate.

D.2: Reduction of off-peak drawal

It is noticed that the State's demand is being reduced to 2000 – 2100 MW during off peak period forcing injection of power to the grid even after backing down of State's hydro generation & surrender of State's central sector share. During the said period the frequency normally remains high resulting injection of power at 'ZERO' cost & sometimes with penalty.

Members may discuss.

D.3: Availability of data of real time power flow of feeders covered under Under-frequency Load shedding scheme (UFLS) and lower relief expected to obtained in real time system operation

In the last meeting Sr. G.M (Telecom) stated that MFMs have already been installed at the following S/Ss.

- | | | | |
|--------------|--------------------|--------------|---------------|
| 1. Khurda | 2. Bhanjanagar | 3. Jayanagar | 4. Theruvali |
| 5. Boinda | 6. Chainpal | 7. Dhenkanal | 8. Balasore |
| 9. Bhadrak | 10. Jajpur Road | 11. Bargarh | 12. Bhadrak |
| 13. Bolangir | 14. Bolangir (New) | 15. Rourkela | 16. Sambalpur |

Integration will be done soon after joint testing with EMR.

Sr. G.M (Telecom) stated that data availability for all feeders have been completed except four Nos. of S/Ss, for which the CT/ PT output is required. It was decided that all the remaining S/Ss may be completed before the next meeting in coordination with the respective EMR wing, as the matter has been considerably delayed.

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

D.4. High Voltage at 400 kV Meramundali & Duburi S/S_ Reactive Power Injection by OPTCL

Persistent high Voltage is being observed at Meramundali & Duburi 400 kV buses. Since these buses are the inter State exchange points, Reactive power injection penalty is being charged to Gridco. It is learnt that one no of 50 MVAR line reactor at Meramundali is not functioning. O&M may take action for rectification of the same early. It may also be examined for installation of 2nd reactor at Duburi to arrest the high Voltage. Further Powergrid may be requested to shift the line reactor of the 400 kV Baripada- New Duburi-Mendhasal ckt from Mendhasal to New Duburi.

It is also noticed that Balimela is not allowing for keeping 220 kV Balimela-Jayanagar one ckt in service in case of low generation at Balimela HEP resulting VAR injection to the grid from the State.

Members may discuss.

D.5: 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.

OHPC may deliberate.

D.6: 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	220kV Jayanagar-Theruvalli ckt-III breaker	Breaker already commissioned. Isolator problem	November 2015
2	220/132 kV, 100 MVA Auto-II at Duburi	After inspection by repairer, date can be ascertained	Spares received. Work will be taken up after rainy season.
3	220/132 kV, 100 MVA Auto-I, Bhadarak		October' 2015

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

D.7: Communication issues

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

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

Sl. No	Name of CGP	Present status
1	M/s IFFCO, Paradeep	Outdoor commissioning work completed. 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 Adhunik Metalliks	Work order placed with ABB for supply of RTU.
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. No progress of work.

It was decided that OPTCL, while issuing Technical clearance shall consider the provisions also. OPTCL may also approach OERC in this regard.

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

(ii) Interruption of SCADA.

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

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

In the last meeting Sr. G.M (Telecom) stated that up gradation of the existing SDH equipment to STM16 in progress.

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

(iii) 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.

It was decided that Sr. G.M. (Telecom) shall write issue reminder to M/s Vedanta Ltd for functioning the data communication system.

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

D.8. Islanding Scheme of Ib TPS

The islanding scheme for IbTPS has already been commissioned but not functioning due to non-incorporate the trip commands to the breakers at Budhipadar from the Islanding Relay. This has already been discussed in the 81st PSOC meeting, wherein Telecom wing of OPTCL assured to complete the optical fibre link, provided IbTPs allow for working in their premises. Ib TPS had also agreed to allow them. The link is yet to be completed yet.

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

D.9: Display of dashboard data.

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

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

The Dash board shall be kept in parallel with RDVU for three months.

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

D.10: Web based drawal / generation scheduling.

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

In the last meeting IT representative deliberated that SLDC shall finalize the date preferably during first week of November-2015 for one day demonstration cum training programme at SLDC for web base scheduling.

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

D.11: Replacement of Battery bank at SLDC data centre.

It is noticed that the existing battery bank at SLDC data centre have become defunct and unable to supply back up in case of power failure. SLDC data centre experienced severe problem from 19.09.15 to 21.09.15 due to cable fault causing interruption of power. The DG set has to run continuously during the above period to provide power supply to the data centre. This issue has already been brought to the notice of IT wing of OPTCL, entrusted for maintenance of the Data Centre.

In the last meeting IT representative deliberated that tender has already been floated for replacement of Battery bank at SLDC data centre.

CGM (IT) / SLDC may please update the status.

D.12: DISCOM Issues

CESU

- i. Mismatch of displayed and actual drawal given in the bill and Fixed drawal assumption for inter Discom 33 kV feeders lead to inaccurate drawal prediction on day-ahead basis.
- ii. RVDU installed at CESU H.O. is not functioning some times and Dashboard data is not matching with the RVDU.
- iii. Spare 33 kV bay at Chainpal, Argul, Bidanasi & Kalrangi Grid S/Ss.
- iv. Minimise interruption for Rly Traction S/Ss such as Solari, Kaipadar Road, Kendrapara Road, Joranda Road & Gorkhanath.
- v. Power supply to ESI hospital (2 MVA)
- vi. Commissioning of 132/33 kV S/S at Nadiagurudi by March 2016 to cater the up coming load
- vii. Up gradation of 132 kV Ransingpur-Kesura ckt with replacement of existing conductor by HTLS.
- viii. Commissioning of 220/132 kV S/S at Atri by December2015 and 220/132 kV Cuttack Grid S/S by end of this winter.
- ix. Commissioning of 132 kV Salipur-Kendrapara 2nd ckt.

WESCO

- i. Drawal of energy by solar projects is not being deducted from WESCO's BST bill.
- ii. Mismatching of RVDU display with WESCO drawal – non-functioning since 23.11.15
- iii. Display of Open access drawal, EHT consumers' & all grid sub-station drawal in RVDU.

CGM (IT) / Sr. G.M. (Telecom.) / CGM (O&M) / Gridco 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 March 2016.
2	Commissioning of 400 kV Meramundali-Mendhasal 2nd ckt	Line is ready and shall be charged after commissioning of 3 rd ICT at Mendhasal, which is under progress.
3	Commissioning of 400 kV Ib-Meramundali D/C line.	400kV SSEL-Meramundali line has been idle charged from SSEL end. Due to theft of conductor line could not be charged. Expected to be charged by end of Nov'2015.
4	Commissioning of 220 kV Bidanasi-Cuttack line	Work in progress and expected to be completed by March 2016.
5	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by December 2015.
6	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by December 2015.
7	Commissioning of 220/132 kV Kesinga S/S	Work under progress. Expected by September 2016.
8	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 ckt each.
9	LILo of 220 kV Burla - Bolangir line (one ckt) at Bolangir(PG)	Work has been started. Expected to be completed by December, 2015
10	220 kV Bolangir –Kesinga D/C line and LILo of one ckt at Bolangir(PG).	220kV Bolangir - Kesinga D/C line is under construction. It is proposed to connect Bolangir (PG) through LILo arrangement of one ckt. Land dispute is yet to be resolved.

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

Sl. No	Name of the sub-station	Probable month of commissioning	Name of DISCOM	Action taken by Discoms
1	132/33kV, 2x20 MVA Khajuriakota	December'15	CESU	By July'15
2	132/33kV, 2x40 MVA Kalunga	Charged on 03.11.15	WESCO Utility	
3	220/33kV, 2x20 MVA Banei	Dec'15	WESCO Utility	
4	132/33kV, 2x20 MVA Padmapur	Dec'15	WESCO Utility	
5	132/33kV, 2x20 MVA Udala	Dec-15	NESCO Utility	Line existing
6	132/33kV, 2x20 MVA Somanathpur	Sept'15	NESCO Utility	33 kV feeder existing.

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

In the last meeting it was suggested that 11kV line at Sarsmal (Jharsuguda) shall be diverted from the switchyard to facilitate construction of second transformer bay.

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

E.2: Installation of Energy Metering at Hydro / Traction & Solar projects.

In the last meeting it was suggested to consider the energy meter reading of newly installed ABT compliance energy meters for billing as well as accounting purpose. The PPA for “**joint meter reading**” shall be modified, if required.

GRIDCO / OHPC / WESCO may please deliberate.

E.3: TTPS Issue.

Implementation of Feeder Metering

In the last meeting TTPS deliberated that all the meters were tested & calibrated by the STL on 09.10.2015. The 132kV CTs for TTPS-Duburi-1 have been replaced. Further, as per the PPA dated 08.03.1995, the energy meters are to be installed at GT end. Since the meter locations will be shifted to feeders, the corresponding clause in the PPA is required to be amended. Accordingly, the proposal has been sent to the competent authority of NTPC for approval.

As per the decision by Gridco the feeder metering has been implemented with effect from 1st October. SLDC has prepared the Deviation charge bill considering the feeder meter data for the month of October.

TTPS in their letter No.045/GGM/TTPS, Dated. 20.11.2015 addressed to CGM (PP) Gridco pointed out that, as per clause 7(1), 1st proviso of CEA (Installation and operation of Energy meters) Regulation, 2006 as amended in 2010 “ for existing stations the location of Main, Check and Standby meters shall not be changed unless permitted by the Authority”.

In the present case, for the first time, energy meters have been installed at the interface points, which should have been installed earlier, without changing the position of the existing meters. As such the regulation as mentioned by TTPS is not applicable. However the existing meters will be treated as standby meters.

Further, TTPS had also agreed to consider these feeder meters for Energy Accounting after being tested by STL.

GRIDCO / OPTCL/ TTPS may please deliberate.

E.4: Major Events in the month of October’15

15.10.2015: 132/33 kV, 20 MVA 3rd Transformer at Angul S/S charged.

16.10.2015: 132/33 kV, 2x20 MVA Marsaghai S/S charged.

31.10.2015: 132/33 kV, 20 MVA 2nd Transformer at Konark S/S charged.

E.5: Important Grid Incidences during the month of October’15.

No major incident occurred during the month

E.6: Outage of major transmission Elements during the month of October’15. (above 10 hrs).

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

Sl No	Transmission lines	Tripping Dt/time	Restoration Dt/time	Reason
1	132 kV Paradeep-Kendrapara Ckt-II	14.10.15 18:57	15.10.15 17:13	‘R’ ph conductor snapped between Loc. No-223 and 224.
2	220/132 kV, 160 MVA Auto-I at Narendrapur	18.10.15 02:47	24.10.15 10:00	132 kV side ‘Y’ and ‘B’ ph bushing burst.
3	220 kV New Duburi-JSL Ckt-II	19.10.15 11:49	20.10.15 17:13	Tree branch touched the line between Loc. No-8 & 9.
4	220 kV New Duburi-Bhadrak Ckt	23.10.15 15:00	24.10.15 15:46	‘R’ ph LA damaged at New Duburi S/S.
5	220 kV TTPS-Joda Ckt-I	29.10.15 11:24	30.10.15 14:54	R’ ph insulator damaged at Loc. No-476.

Major outages are due jumper snapping.

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

E.7: Review of Outage Program of State Generators / Transmission elements for the month of December'2015:

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

Sl.	Station	Unit	Period	Remarks
1	Burla	# 2	16.12.15 to 15.05.16	Capital Maintenance
		# 3	02.11.15 to 30.11.15	Annual Maintenance
		# 6	17.02.14 to continue	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	TGB problem and started R,M & U
		# 7	16.12.15 to 10.01.16	Annual maintenance
4	Upper Kolab	# 1	29.07.15 to 31.01.16	Capital Maintenance
5	Rengali	# 4	02.11.15 to 31.11.15	Annual maintenance
		# 5	01.12.15 to 31.12.15	Annual maintenance
6	Upper Indravati	# 3	20.11.15 to 30.04.16	Capital Maintenance

OHPC / SLDC may deliberate.

E.8: Revised calculation of PAFM for OHPC stations

As per the direction of OERC, in case of any unit under R&M / Capital maintenance, the Installed capacity of that unit shall not be considered for determination of PAFM of the power station. OHPC has to intimate SLDC the details of **units** under R&M / Capital maintenance along with the approval of OERC for determination of PAFM of the station. It is noticed that OHPC is intimating such cases after a lapses of considerable time to the tune of 2 years.

OHPC may deliberate

E.9: Generation Program for the month of December'15.

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

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 15.11.14	Reservoir Level as on 15.11.15	MDDL	High Flood Reservoir Level
	Dec'15 (1 st fortnight)	Dec'15 (2 nd fortnight)				
HPS, Burla	30+20	30+20	629.31ft	625.56ft	590 ft.	630 ft.
Balimela	40	40	1514.40ft	1500.60ft	1440 ft.	1516 ft.
Rengali	20	20	122.02mt	118.94mt	109.72mtr	123.5 mtr.
U.Kolab	40	40	856.90mt	855.87mt	844 mtr	858 mtr.
U. Indravati	50	50	640.43mt	634.86mt	625mtr	642 mtr
MKD (O/D)	30	30	2748.50ft	2747.25ft	2685 ft.	2750 ft.
TOTAL	230	230				

Note: As decided in the meeting at the chamber of Hon'ble Minister, Energy dated 12.11.2015, SLDC shall maintain the hydro generation between 150 to 200 MW (excluding Machhakund share) as per the real time requirement.

Members may discuss.

E.10: RSP (SAIL), Rourkela Issue.

- (i) Review of relay settings of TG grid to RSP 220kV feeders
- (ii) Drawal clearance during shutdown of 60MW unit-1 of NSPCL from 01.10.15 to 20.10.15.
- (iii) Clearance for construction of two 220kV bays at Tarkera grid sub-station and construction of 220kV D/C line.

RSP and O&M may please deliberate

E11. Jindal Stainless Ltd. Issue

- (i) In case of power import from other than the incumbent Discom (NESCO) through Open Access transaction, the energy accounting and RST billing mechanism may be clarified.
- (ii) To maintain the 220kV Bus Voltage of New Duburi sub-station between 227 to 230 kV so that JSL can utilize its generator VAr capability for demand management and avoid lagging power factor penalty reflected in the monthly energy bill raised by NESCO where absorption of VAr during high voltage condition is not accounted for.

E.12: Anticipated power generation and demand for the month of December'2015.

Sl. No	Discom	Average	Peak
1	CESU	900	1100
2	WESCO	800	1050
3	NESCO	620	800
4	SOUTHCO	330	450
5	Total	2650	3400
	Demand including Loss	2900	3750
Availability			
	Hydro	230	970
	State Thermal	750	750
	IPP, small hydro &RE	750	750
	ISGS share	920	1000
	CGP support (OA)	250	280
6	Total availability	2900	3750
7	Surplus / Deficit	0	0

PART F: OTHER ISSUES

F.1: Operating procedure for Odisha System.

As per provision in the Regulation 5.1(4) of Odisha Grid Code, the draft Operating Procedure for Odisha System has been prepared and uploaded in the SLDC site (path: Commerce information). Members are requested and forward their comments / suggestions to SLDC before 15th December 2015. The final Operating Procedure shall be placed in the next meeting.

Members may discuss

F.2: Online metering data acquisition.

M/s TCS has been entrusted for the project meant for collection of online metering data from the field. For the said purpose TCS personnel are installing required equipment at the metering points. It is noticed that sometimes the connectivity at the metering terminal & the CT / PT output are being disturbed effecting the energy recording. It is suggested to instruct all the sub-stations for taking up the work in presence of E&MR staffs only.

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

F.3: Date and Venue of the next (92nd) PSOC meeting.