

**MINUTES OF DISCUSSION IN 57th POWER SYSTEM OPERATIONAL COORDINATION  
MEETING HELD AT 11.30 HRS. ON 27.05.2009 AT OPTCL POWER TRAINING CENTRE  
CHANDAKA, BHUBANESWAR**

List of participants enclosed at Annexure-A

No representative from OPGC, RSP and Machhakund PH has attended the meeting.

The meeting was chaired by Director (Engineering), OPTCL.

Director (Engineering), OPTCL welcomed all the participants to the 57th Power System Operational Coordination meeting.

Sr. G.M (PS) gave a brief overview of system performance such as Voltage & Frequency profile, State maximum & minimum system demand, important events and major incidents occurred in OPTCL system during the month of March 2009.

AGM (SLDC) took the agenda items for discussion.

The review proceeded as follows:

**Item No.1-Confirmation of the minutes of 56th PSOC meeting held on 22.04.2009 at PTC, Chandaka, Bhubaneswar.**

Since Members have no comments for the minutes of 56th PSOC meeting, the minutes of the meeting was confirmed.

**Item No. 2- Review of Grid performance for the month of April 2009.**

**Item No. 2 (A) – Frequency**

The one-minute instantaneous System frequency for the month of April'09 was reviewed. It was noticed that 83.13 % of times, the frequency remained in the band of 49.2Hz – 50.3Hz (IEGC band) during the month as compared to 97.34% (pre-amended IEGC bend) during April'09. The maximum and minimum System frequency during the month of April'2009 was 50.53 Hz and 48.84 Hz respectively. The monthly frequency profile, FVI & Standard Deviation for the month of April' 2009 was reviewed. The frequency profile during the month of April'09 is noticed to be deteriorated in comparison to the month of March'2009.

**Item No. 2 (B) – Grid demand**

Grid demand for the month of April' 2009 was reviewed. The maximum System demand of 2860 MW occurred on 17.04.09 at 21:00 Hrs and minimum demand of 1748 MW occurred on 20.04.09 at 15:00 Hrs. respectively. The hourly demand profile for the month of April'2009 was reviewed. It is observed that, the peak demand during the month was decreased by 161 MW during the month of April'2009 in comparison to March' 2009. The grid demand has decreased by 82 MU comparing to **March 2009** and increased by 56 MU comparing to **April 2008**.

**Item No. 2(C) – Voltage Profile of important Sub Stations in OPTCL System.**

The Voltage profile at different 220 kV buses occurred during the month was reviewed.

It is noticed that Narendrapur 220 kV bus has experienced a maximum voltage of 257 kV and minimum Voltage of 185 kV has experienced by Bhadrak, Balasore and Chandaka 220 kV buses.

**Deliberation in the meeting**

The maximum Voltage at Narendrapur S/S was due to under loading of transmission lines during off-peak hours. The minimum Voltages at Bhadrak and Chandaka are due to growing demand of these areas. However after connecting Mandhasal ICTs at 400 kV the Voltage level at Chandaka is likely to be improved. After establishing of 400 kV S/S at Duburi, the low Voltage at Duburi, Balasore & Bhadrak S/Ss will be improved.

CGM (O&M) stated that provision of reactors at Narendrapur and Theruvali to arrest the high Voltage problem is under study.

**[ Action: CGM (O&M)]**

**Item No. 2 (D) – Energy Generation/ import during the month of February'09**

Energy generated by the State generating stations such as OHPC stations, IbTPS , TTPS (NTPC) and CGP support and import from ISGS station during the month was reviewed.

**Deliberation in the meeting**

In the last meeting CGM (O&M) suggested to furnish the energy generation in the same month of previous year for reference and review. The above data shall be incorporated in future.

**Item No. 2 (E) – DISCO Drawal during the month of April'09**

The quantum of energy drawn by Discos during the month was reviewed. It is noticed that the cumulative drawal by the Discos up to the month ending April'09 except WESCO have been increased in comparison to the ARR approved quantum

**Deliberation in the meeting**

Sr G.M (CPC) suggested that Gridco should file supplementary ARR before the OERC to consider the extra drawal by the Discoms..

**[ Action: Sr. G.M (PP), Gridco]**

**Item No. 2 (F) – Major Events in the month of April' 2009**

18.04.09- At 13:38 hrs 5<sup>th</sup> 135MW unit of M/S Vedanta Aluminium Ltd., Jharsuguda was synchronized with OPTCL system through the 220kV D.C. feeder at Budhipadar Grid substation.

## Item No. 2 (G) – UFR Operation in OPTCL System in the month of April' 2009

There was no UF Relay operation occurred during the month of February'09.

The locations for installation of df/dt Relay in OPTCL system has already been decided

The list of Sub stations to be isolated during rate of falling frequency higher than the set limit (0.125 Hz/Second at frequency 49.9 Hz) is as listed below

### *List of feeders and peak power flow*

<b>Name of Substaion</b>	<b>Load (MW)</b>	<b>Name of Substaion</b>	<b>Load (MW)</b>
Sundergarh	30	Jagatsingpur	27
Brajrajnagar	54	Nuapatna	28
Junagarh	17	Kalarangi	11
Kharior	25	Pattamundai	20
Sonepur	18	Salepur	18
Patmagarh	23	Phulbani	14
Tentulikhunti	17		
<b>Total</b>	<b>184</b>		<b>118</b>

**Total load to be isolated = 302 MW.**

### **Deliberation in the meeting**

C.G.M.(O&M) stated that the installation of df/dt relays shall be taken up soon.

**[Action- C.G.M. (O&M), Sr. G.M (PS)]**

## Item No. 2 (H) – Important Grid incidents

Major grid incidents for the month of April' 2009 were reviewed.

Frequent tripping of Choudwar- Chainpal line during the month was discussed.

### **Deliberation in the meeting**

GM, EHT (O&M) Circle Cuttack stated that on 20<sup>th</sup> May 2009 Choudwar-Bidanasi line was hand tripped due to substantial quantum of power flow from Choudwar to Bidanasi (60 MW). Due to which the power flow reversed and pushed to Meramundult S/S and there was a reverse power flow through Meramunduli Auto, which ultimately tripped on reverse power flow.

It was decided that during high generation by ICCL, the Injection by Aarati Steel has to be limited to 15 MW till installation of breaker at Meramunduli-Chainpal line.

CGM (O&M) stated that there the cable fault at Meramunduli which initiates trip signal has already been rectified.

TTPS representative stated that during disturbance at Joda Grid S/S TTPS-Joda line trips at TTPS end instead of Joda end.

CGM (O&M) stated that TTPS is always delaying the charging of line from their end.

TTPS representative stated that the delay was due to communication gap between their control rooms. However the problem has already been sorted out.

**Item No. 2 (I) – Major Transmission Lines/ Elements Outage during the month of February'09.**

Outage of major Transmission Lines/ Elements during the month of April' 2009 was reviewed. It was noticed that most of the tripping are due to failure of insulators and jumper snapping

**Deliberation in the meeting**

C.G.M.(O&M) stated that it is proposed to replace all the insulator of the 132 kV Chatrapur Ganjam line by long rod insulators. Replacement of insulators in Balasore –Jaleswar line will also be taken up.

**[Action : CGM (O&M)]**

**Item No. 3 – Drawal of Machhakund Power.**

Power drawal from Macchakund PH during the month of April' 2009 was reviewed..

**Deliberations in the meeting**

Representative of PP stated that as per the decision in the meeting, APGENCO has agreed to allow 50% of Machhakund generation as Orissa share.

**[Action : Sr.G.M. (PP), Gridco]**

**Installation of new RTU at Machhakund PH:**

Due to damaging of RTU, the generation of Machhakung units could not be displayed. The offer for procurement of RTU has already been sent to OHPC by G.M (Telecom) for procurement action.

**Deliberations in the meeting**

OHPC representative stated that procurement action is being taken up at their end.

**[Action : OHPC]**

**Item No. 4 –Review of Outage Programme of State Generators / Transmission elements for the month of May & June'09 .**

Outage programme of EHT lines and S/S for the year 2009-10 is under process.

Tentative Outage programme for State Generators for May & June'09 are as follows:

Sl.	Station	Unit	May'09		June'09	
1	Chiplima	# 3	04.11.06 to continue	Abnormal sound in turbine	04.11.06 to continue	Abnormal sound in turbine
2	Burla	# 5 # 3	09.04.09 to 08.05.09 15.05.09 to 16.06.09	Annual Maintenance Annual Maintenance	- 15.05.09 to 16.06.09	- Annual Maintenance
3	Rengali	# 1 #2	18.08.08 to Continue 15.01.09 to 31.08.09	Winding Problem Annual Maintenance	18.08.08 to Continue 15.01.09 to 31.08.09	Winding Problem Annual Maintenance
4	U. Indravati	# 4  All Units	04.05.09 to 31.05.09  20.05.09 to 12.06.09 (8:00 to 16:00 hr)	Annual Maintenance  Slit cleaning	06.04.09 to 05.05.09	Annual Maintenance
5	Balimela	# 3 # 6	20.04.09 to 19.05.09 21.05.09 to 19.06.09	Annual Maintenance Annual Maintenance	20.04.09 to 19.05.09 21.05.09 to 19.06.09	Annual Maintenance Annual Maintenance

#### Item No. 5 – Generation Programme for the month of May & June'08

Generation schedule for the month of May & June'09 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.04.09	Reservoir Level as on 01.05.09	MDDL	High Flood Reservoir Level
	May'09	June'09				
HPS, Burla	10+5	10+5	607.50ft	600.77ft	590 ft.	630 ft.
U.Indravati	50	50	629.86mtr	626.72mtr	625mtr	642 mtr
Balimela	160	140	1447.90ft	1443.50ft	1440 ft.	1516 ft.
U.Kolab	30	20	848.70mtr	845.84mtr	844 mtr	858 mtr.
Rengali	15	20	114.53mtr	111.70mtr	109.2mtr	123.5 mtr.
MKD (O/D)	30	30	2723.90ft	2716.10ft	2685 ft.	2750 ft.
<b>TOTAL</b>	<b>300</b>	<b>275</b>				

#### Item No. 6 –Status of New lines funded by WB /ADB/Deposit work/OPTCL's own funding Deliberation in the meeting

The status of the new lines & S/Ss as deliberated by CGM (O&M) are as tabled

Sl. No	Details of project	Status as on date
1	132 kV Burla-Sambalpur SC line	The construction is under progress and expected to be charged during June 2009.
2	of 220/132 kV Bolangir S/S and 220 kV Katapali – Bolangir SC line	The construction is under progress and expected to be charged during July 2009.

**Item No. –7 Communication issues**

**(I) Integration of NALCO & RSP CGPs with OPTCL –Present status May be intimated.**

**Deliberation in the meeting**

**NALCO:**

NALCO representative stated that, procurement action for RTU has already been initiated. The contract is expected to be awarded by 15<sup>th</sup> June 2009.

G.M (Telecom) stated that RSP has laid optical fiber up to Tarkera S/S. No further action has been taken by RSP.

It was decided to insist RSP for completion of the work soon.

**[Action – RSP, G.M (Telecom)]**

**(II) Installation of communication equipment by CGPs/ Industries.**

**Deliberation in the meeting**

G.M (Telecom) stated that, the SCADA system of M/s VAL, Jharsugude has been rectified by ABB engineers. For other CGPs the status remains as before.

**(III) Non-displaying of data for transmission elements / generating units**

Regarding the proposal made to PGCIL for integration of all the remaining / new transmission elements in the SCADA system.

**Deliberation in the meeting**

GM(Telecom) stated that the offer from PGCIL in this regard is yet to be received by them. However it is decided that constant persuasion may be made to PGCIL for the same.

**[Action- G.M (Telecom)]**

**(IV) Display of DISCOM drawal data at SLDC Control Room**

**Deliberation in the meeting**

Sr. G.M (PS) stated that the list of substations prepared company wise is under verification. After verification, the summation data will be displayed in the Control room with some adjustment factor for monitoring purpose only.

**[Action- G.M (Telecom)]**

**Item No. 8- Other Issues**

**A. TTPS**

TTPS representative wanted to avail shut down for their Switch Yard.

**Deliberation in the meeting**

Sr GM (PS) stated that due to low hydro potential, the TTPS shutdown may be differed till July 2009.

Director (Engg) stated that due to low hydro availability and reduced thermal generation there is a deficit of about 300 –400 MW power in the State. CERC also issued stringent directive for over drawal during low frequency condition. In view of this the shut down proposal may be differed.

[ Action: TTPS]

#### **B. WESCO**

WESCO representative stated that the consumption for the grid S/s colonies are not being billed. The quantum of energy need to be deducted from the Discom BST bills.

##### **Deliberation in the meeting**

It was decided to takeup the matter with Gridco since this is a bilateral issue. Or other wise, the issue may be raised in the GCC meeting.

[Action – WESCO]

#### **C. CESU**

CESU representative stated that some of their consumers are interested to avail off peak power

##### **Deliberation in the meeting**

Since there is no separate tariff mechanism available for off-peak power drawal, this will improve the load curve only.

#### **D. SOUTHCO**

Southco representative stated that joint testing of CT/PT has not been conducted since long.

##### **Deliberation in the meeting**

CGM (O&M) stated that this issue may be taken up in the zonal meeting. However the testing may be conducted towards the month of October 2009. Since there will be power interruption during the period of testing , alternate power supply may be arranged during the period.

**Item No:9 : The date and venue of 58<sup>th</sup> Operational Coordination meeting shall be intimated soon.**

**Sr.G.M. (Power System)**

**ANNEXURE-A****MEMBERS PRESENT**

<b>SL.NO.</b>	<b>NAME</b>	<b>DESIGNATION</b>
1	Er K.K. Nath	Director (Engineering), OPTCL
2	Er N. Dash	C.G.M.(Construction), OPTCL
3	Er J.P. Das	C.G.M.(O&M), OPTCL
4	Er D.K.Choudhury	Sr. G.M (TP&C), OPTCL
5	Er. M.K.Mishra	Sr. G.M (CPC), OPTCL
6	Er. S.C. Mudali	Sr.G.M., SLDC, OPTCL
7	Er. B.R. Mishra	D.G.M., SLDC, OPTCL
8	Er. N.R.Mandhata	DGM (O&M), OPTCL
9	Er R.K. Mahapatra	G.M.(Telecom), OPTCL
10	Er. A.C.Patra	DGM (Telecom), OPTCL
11	Er. S.N.Sahani	G.M(Tech), Southco
12	Er. S.C.Das	G.M (HINDALCO)
13	Er. P.K.Pattnaik	G.M(O&M), NALCO
14	Er. S.C.Naik	DGM(O), TTPS (NTPC)
15	Er. D.Behera	DGM(E), IMFA
16	Er.S.K.Das	AGM(SLDC)
17	Er. Umesh Ch.Mohanty	TA to GM (Telcom), OPTCL
18	Er. P.C.Sahu	ACE, Gridco Ltd.
19	Mrs. M. Mishra	Asst. Manager, Gridco Ltd
20	Miss Usharani Sahoo	Asst. Manager, SLDC
21	Er. R.K.Sharma	Sr.Manager, JSL
22	Er. J.P.Goyal	AVP(Elect), JSL
23	Er. P.K.Mishra	Manager, SLDC
24	Er. S.K.Patra	Dy. Manager, WESCO
25	Er. B.P.Gantayat	Dy. Manager, OHPC
26	Er. Jayaprakash Das	Asst. Manager, CESU
27	Er.D.K.Rout	Asst. Manager, CESU
28	Er. M.Mishra	A.M(Elect), O&M, OPTCL





# ORISSA POWER TRANSMISSION CORPORATION LTD.

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Dated : .07.2009

From:

Sr. G.M (Power System)  
OPTCL, Bhubaneswar.

To:

The Director (Commercial), Gridco, Bhubaneswar	The Director (Engineering), OPTCL, Bhubaneswar	The Director (Operation), OHPC, Bhubaneswar
The CGM (O & M), OPTCL, Bhubaneswar	The CGM (Const.), OPTCL, Bhubaneswar	The CGM (IT), OPTCL, Bhubaneswar
The Sr. G.M (C.P), OPTCL, Bhubaneswar	The Sr. G.M (TP), OPTCL, Bhubaneswar	The Sr. G.M., (R&T), OPTCL, Bhubaneswar
The Sr. G.M. (CPC), OPTCL, Bhubaneswar	The Sr. G.M (PP), GRIDCO, Bhubaneswar	The G.M. (Telecom) OPTCL, Bhubaneswar
The Vice President (O), ICCL, Choudwar	The D.G.M (Electrical), IbTPS, OPGC, Banharpali	The G.M. (O &M), CPP, NALCO, Angul
The DGM (O & M), NTPC (TTPS), Talcher	The D.G.M, HINDALCO, Hirakud	The D.G.M (Power Distribution), RSP, Rourkela
The Manager(Elect.), JINDAL, Duburi	The G.M, VEDANTA, Jharsuguda	The G.M.(Elect.), BHUSAN, Budhipadar
The Member Secy., (GCC),3 <sup>rd</sup> Floor Bidyut Bhaban,OPTCL	The C.E.O., SOUTHCO, Berhampur	The C.E.O., CESU, Bhubaneswar
The C.E.O., NESCO, Balasore	The C.E.O., WESCO, Burla	The S.E, Machhakund

**Sub: Minutes of 57<sup>th</sup> Power System Operational Co-ordination meeting held on 27.05.09 at PTC, Chandaka, OPTCL, Bhubaneswar.**

Sir,

Please find enclosed herewith the minutes of 57<sup>th</sup> Power System Operational Co-ordination meeting held on 27.05.09 at PTC, Chandaka, Bhubaneswar. This is for your information and necessary action.

Yours faithfully;

**Encl.:** As above

**Sr. General Manager (PS)**

**CC:** The Executive Asst. to C.M.D., OPTCL along with a copy of enclosure for kind information of C.M.D.