

**MINUTES OF DISCUSSION IN 58th POWER SYSTEM OPERATIONAL COORDINATION  
MEETING HELD AT 11.30 HRS. ON 30.07.2009 AT OPTCL POWER TRAINING CENTRE  
CHANDAKA, BHUBANESWAR**

List of participants enclosed at Annexure-A

No representative from CESU, NESCO, SOUTHCO, NALCO and Machhakund PH has attended the meeting.

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

Director (Engineering), OPTCL welcomed all the participants to the 58th 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 June 2009.

AGM (SLDC) took the agenda items for discussion.

The review proceeded as follows:

**Item No.1-Confirmation of the minutes of 57th PSOC meeting held on 27.05.2009 at PTC, Chandaka, Bhubaneswar.**

Since Members have no comments for the minutes of 57th PSOC meeting, the minutes of the meeting was confirmed.

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

**Item No. 2 (A) – Frequency**

The one-minute instantaneous System frequency for the month of June'09 was reviewed. It was noticed that 79.80 % of times, the frequency remained in the band of 49.2Hz – 50.3Hz (IEGC band) during the month as compared to 82.86% (pre-amended IEGC bend) during May'09. The maximum and minimum System frequency during the month of June'09 was 50.62 Hz and 48.73 Hz respectively. The monthly frequency profile, FVI & Standard Deviation for the month of June'09 was reviewed. The frequency profile during the month of June'09 is noticed to be deteriorated in comparison to the month of May'2009.

**Item No. 2 (B) – Grid demand**

Grid demand for the month of June'09 was reviewed. The maximum System demand of 2997 MW occurred on 01.06.09 at 21:00 Hrs and minimum demand of 1554 MW occurred on 24.06.09 at 18:00 Hrs. respectively. The hourly demand profile for the month of June'09 was reviewed. It is observed that, the peak demand during the month was decreased by 132 MW during the month of June'09 in comparison to June'09. The grid demand has decreased by 30 MU comparing to **May 2009** and increased by 30 MU comparing to **June 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 259 kV and minimum Voltage of 170 kV has experienced by Chandaka 220 kV bus.

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

**Item No. 2 (E) – DISCO Drawal during the month of June'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 June'09 except WESCO have been increased in comparison to the ARR approved quantum

**Deliberation in the meeting**

The Discoms are required to monitor their drawal regularly. The drawal quantum should be as close as to the approved quantum in the ARR. by the Hon'ble Commission.

**Item No. 2 (F) – Major Events in the month of May & June 2009**

06.05.09- At 20:40 hrs newly constructed 220/132kV Paradeep Grid S/s charged with an one no. of 100MVA Auto.

**Item No. 2 (G) – UFR Operation in OPTCL System in the month of June'09**

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

**Deliberation in the meeting**

CGM (O&M) was requested to expedite procurement of df/dt relays for installation in OPTCL network.

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

Major grid incidents for the month of June'09 were reviewed.

**Deliberation in the meeting**

Sr.G.M.(PS) stated that many times, the details of tripping and relay indications are not being reported by the Grid Sub stations to SLDC properly.

Director(Engg.) assured to issue necessary instruction to all the G.M.,EHT (O&M) Circles in this regard.

TTPS representative stated that in case of disturbance at Joda Grid S/S, 220 kV TTPS-Joda line always trips from TTPS end instead of Joda end.

Sr. G.M. (PS) stated that, this issue was also discussed in the 40<sup>th</sup> OCC meeting of ERPC at Kolkata held on 22.07.2009. On 11.06.2009 at 21:37 Hrs. all the 220 kV lines emanating from Joda Grid S/s which subsequently stood ok when charging. Even though the fault was transient, instead of tripping of the faulty feeder, all the 220 kV feeders pulled out at Joda S/S, probably due to improper coordination of Relay / Breaker operation time setting.

Director(Engg.) stated that the relay coordination has to be done at Joda grid S/s. Repairing of breaker at Joda end need to be taken up for proper operation.He also suggested to send the details copy of incidents to G.M., EHT (O&M)Circle, Joda and A.G.M., EMR for necessary action.

RSP representative stated that due to tripping of Auto at Tarkera Grid S/s power interruption occurred to RSP.

Director(Engg.) stated that the date of tripping may be indicated for detail analysis.

**[ Action: CGM (O&M), Sr. G.M. (PS)]**

#### **Meramundali**

Sr.G.M.(PS) stated that the incident occurred at Meramundali on 24.06.2009 was discussed in the 40<sup>th</sup> OCC meeting of ERPC at Kolkatta. In the above meeting, G.M. ERLDC stated that, at present there is only one tie breaker available at 400 kV side for coupling of 400 kV Bus-I & II. At present TSTPP-Meramundali feeder-II is connected to Bus-I. Meramundali-TSTPP-feeder-I, Mermundali-Jeyapure-feeder along with ICT-I & II are connected to Bus-I.

In case of tripping of 400 kV Meramundali-Jayapur PG feeder the two buses get de-linked and 400 kV TSTPP feeder-II remain in hanging condition.

It was suggested in the meeting that, till installation of another tiebreaker, one of the ICTs may be kept at bus-I.

Director(Engg.) agreed to the above suggestion and suggested that ICT-II may change to Bus-I from Bus-II at Meramundali S/s.

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

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

Outage of major Transmission Lines/ Elements during the month of June'09 was reviewed. It was noticed that most of the tripping are due to failure of insulators and jumper snapping

### **Deliberations in the meeting**

TTPS representative stated that 220kV TTPS-Kaniha Ckt. trips frequently due to weak jumpering of dead end Tower to Gantry. For strengthening of the above jumpering, it is proposed to avail shutdown at 220 kV TTPS Bus.

Director(Engg.) agreed for the above shutdown.

**[Action : TTPS, Sr. G.M. (PS)]**

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

Power drawal from Macchakund PH during the month of June'09 was reviewed..

### **Deliberations in the meeting**

Representative of PP stated that as per the decision in the meeting, APGENCO has agreed for fulfilling of their commitments for allowing the to draw the under drawal power of 2.8 MU of Machhakund generation as Orissa share. Regarding the above matter a meeting was scheduled to be held on 11<sup>th</sup> August with APGENCO to discuss the issue.

However it was decided in the meeting to consult CEA for resolving the above issue

**[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**

C.G.M. OHPC assured that necessary action for procurement of RTU will be taken up at their end.

**[Action : OHPC]**

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

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

Sl.	Station	Unit	July'09		August'09	
1	Rengali	# 1	18.08.08 to Continue	Winding Problem	18.08.08 to Continue	Winding Problem
2	Balimela	# 7	12.06.09 to 10.08.09	Transformer problem	12.06.09 to 10.08.09	Transformer problem
		# 8	12.06.09 to 25.08.09	Transformer problem	12.06.09 to 25.08.09	Transformer problem

Sr.G.M.(PS) stated that unit #1 of Rengali PH is under shut down since long.

C.G.M.(OHPC) stated that it was decided by OHPC that the R&M work and stator damage work of unit #1 of Rengali PH will be taken up.

C.G.M.(OHPC) asked for plan for evacuation of power of Burla PH whose maximum generation is around 240 MW, but due to the present system condition, the maximum power can draw from Burla PH is only 175 MW.

Sr.G.M.(PS) stated that at present, the power generation at Burla is being evacuated fully.

**Item No. 5 – Generation Programme for the month of May & July’08**

Generation schedule for the month of July’09 & August’09 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.06.09	Reservoir Level as on 01.07.09	MDDL	High Flood Reservoir Level
	July’09	August’09				
HPS, Burla	200+30	260	598.00ft	595.08ft	590 ft.	630 ft.
U.Indravati	400	500	625.61mtr	625.20mtr	625mtr	642 mtr
Balimela	130	180	1441.80ft	1437.50ft	1440 ft.	1516 ft.
U.Kolab	80	60	844.86mtr	844.51mtr	844 mtr	858 mtr.
Rengali	160	170	110.12mtr	109.47mtr	109.2mtr	123.5 mtr.
MKD (O/D)	25	25	2708.20ft	2702.35ft	2685 ft.	2750 ft.
<b>TOTAL</b>	<b>1025</b>	<b>1195</b>				

C.G.M.(Const.) stated that unless 220kV Indravati-Theruvali Ckt.-III & IV charged, it is risky to run all the Indravati units with two 220kV bus. He was suggested for requesting ERLDC to allow split bus arrangement at Indravati 220 kV Bus, till restoration of Indravati-Theruvali Ckt.-III & IV.

**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 (Const.) are as tabled

Sl. No	Details of project	Status as on date
1	132 kV Burla-Sambalpur SC line	Already completed. After completion of 220 kV Katapali – Bolangir, the line will be charged
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 September 2009.

**Item No. –7 Communication issues**

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

### **Deliberation in the meeting**

#### **NALCO**

No representative from NALCO was there in the meeting.

In the last meeting it was deliberated by NALCO representative that, procurement action for RTU has already been initiated.

G.M (Telecom) stated that no further action has taken by NALCO till yet.

Director (Engg) stated that G.M. (Telecom) may write to NALCO to intimate the present status of RTU connection.

**[Action – G.M (Telecom)]**

#### **RSP**

RSP representative stated that connection between LAN switches at Tarkera to RSP is yet to be done. At present RSP data is available at Tarkera Grid S/s which is linked to the system. G.M (Telecom) stated that RSP has laid optical fiber up to Tarkera S/S. No further action has been taken by RSP. He further stated that RSP has already floated tender for the above work. The bid will be opened on 15<sup>th</sup> August. The above work will take minimum of 5-6 months of time.

**[Action – RSP]**

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

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

G.M (Telecom) deliberated the present status

Sl. No	Name of CGP	Status of procurement of RTU and equipments
1	M/S BSSL, Meramunduli	Data is coming except the breaker status. The data is in server only which is yet to be displayed on screen.
2	M/S Hind Metals, Meramunduli	All equipments installed, integration is to be done by ABB engineers.
3	M/s Bhushan Power & Steel Ltd, Jharsuguda	RTUs procured by Bhusan are not compatible to our system. They need to be replaced. It is already intimated to Bhusan.
4	M/S EMAMI	Already commissioned, but still under observation.

### **(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**

G.M.(Telecom) stated that offered has been received from PGCIL for 30 substations which is yet to be placed in CSC meetin which is to be held on 30.07.09.

[Action- G.M (Telecom)]

### **Item No.8 Other issues:**

#### **(I) Synchronisation of Timings with GPS**

It is noticed that due to non synchronization of Grid S/S timings with the GPS, there are wide difference in tripping timings of transmission elements in case of disturbances. This leads to confusion while analysing the disturbances. All the 220/132 kV S/Ss may be instructed to match their Clocks with SLDC at least once in a week and intimate to all the 132/33 kV S/Ss in the down stream.

[Action- G.M (Telecom)]

- (II) In case of communication failure to important S/Ss it is not possible to communicate messages and informations. It may be considered to provide mobile phones to all the 220 kV S/Ss including 132kV Bhubaneswar S/s and Machhakund P.H.

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

Director(Engg.) agreed to the above proposal.

[Action- G.M (Telecom)]

- (III) It is noticed that in holidays the data error in SCADA system is not being rectified due to absence of counterpart telecom staff in the field S/Ss.

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

G.M.(Telecom) stated that above situation occurs due to non availability of adequate staffs. However all efforts will be taken to address the issue.

### **Item No. 8- Other Issues**

#### **A. JINDAL STEEL LTD.**

1. Representative of M/s. JSL wanted to know the completion of Duburi-New Duburi Ckt.-II.

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

Director (Engg) stated that due to public resistance, it is not possible to enter the zone even for conversion of Ckt.-I, which is under ERS till now.

2. Jindal representative stated that in case of fault occurred at Balasor/ Paradeep/ Old Duburi-New Duburi line, CGP of JSL is getting islanded. It was requested to examine the relay settings at the above substations.

### **Deliberation in the meeting**

It was decided in the meeting that the relay setting shall be reviewed by concerned AGM(Balasore) and the relay coordination at New Duburi shall be checked.

[Action: C.G.M.(O&M)]

### **B. RSP**

1. RSP representative stated that enhancement of power drawal by RSP from 100 MVA to 250 MVA may be considered by the year 2012.

### **Deliberation in the meeting**

Director(Engg.) stated that after getting power from VAL, Jharsuguda, Bhusan and other IPPS, the above proposal shall be examined provided there is excess power available.

2. RSP representative proposed for shutdown of their CGP with effect from 15.08.09 for 15days.

### **Deliberation in the meeting**

Director(Engg.) assured to examine the issue.

### **C. OPGC**

OPGC representative stated that the relay coordination at Budhipadar S/s is required to be examined by OPTCL.

### **Deliberation in the meeting**

Sr.G.M.(CPC) stated that the relays at Budhipadar has already been coordinated considering all the feeders. So OPGC may coordinate relay setting at their end.

### **D. TTPS**

1. TTPS representative asked for taking shut down of 220kV TTPS-Meramundali Ckt.-I for 25days for replacement of breaker.

### **Deliberation in the meeting**

Director(Engg.) agreed to permit the above shutdown on condition i.e. to complete the shutdown work within 15 days.

2. TTPS representative stated that there is no ground wire installed in TTPS-Meramundali Ckt. after 3-4 towers.

### **Deliberation in the meeting**

Director (Engg.) stated that it will be intimated to G.M., Chainpal to look out the above issue.

### **E. IMFA**

IMFA representative stated that 132kV Chainpal-Dhenkanal Ckt. tripped 4times on 29.07.09.

### **Deliberation in the meeting**

Director(Engg.) stated that the above line tripped due to overloading, even after impose of load restriction to Dhenkanal area, which is only a temporary problem.



He further stated that 132kV Kendrapara-Salipur is yet to be charged, which is already approved by BoD.

**Item No:9 : The date and venue of 59<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. A.K. Kundu	C.G.M., OHPC
4	Er. D.D. Sharma	Sr. G.M (CP), OPTCL
5	Er. S.C. Mudali	Sr.G.M., SLDC, OPTCL
6	Er. B.N. Mahapatra	Technical Consultant, SLDC
7	Er. B.R. Mishra	G.M., SLDC, OPTCL
8	Er. Ashes Padhy	G.M.(CPP), Vedanta
9	Er. N.R.Mandhata	G.M (O&M), OPTCL
10	Er R.K. Mahapatra	G.M.(Telecom), OPTCL
11	Er. S. N Sahany	G.M.(Tech.), Southco
12	Er. A.C.Patra	DGM (Telecom), OPTCL
13	Er. Umesh Ch. Mohanty	T.A. to G.M.(Telecom), OPTCL
14	Er. P. Sahoo	D.G.M.(PD), RSP
15	Er. S.S. Dey	Manager(Operation), OPGC
16	Er. A.K. Mohanty	D.G.M.(EM), NTPC
17	Er. H.P. Mahapatra	Manager, OHPC
18	Er. S.N. Mishra	Consultant to Jindal
19	Er. R.K. Sharma	Sr. Manager, Jindal
20	Er. Punendu Pradhan	A.M., Jindal
21	Er. Dibakar Behera	D.G.M., IMFA
22	Er. G.C. Mohanty	D.G.M.(Comm.), WESCO
23	Er. Laxmidhar Mahapatra	A.G.M., GRIDCO
24	Er. S.K. Das	A.G.M., SLDC
25	Er. P.K. Mishra	Manager, SLDC
26	Er. Usharani Sahoo	A.M., SLDC



# ORISSA POWER TRANSMISSION CORPORATION LTD.

OFFICE OF THE Sr. GENERAL MANAGER (POWER SYSTEM)

GRIDCO Colony, P.O.- Mancheswar Rly. Colony, Bhubaneswar-17, FAX-0674- 2748509

No. SGM(PS)-PL-15/2007(VOL .-VI)/\_\_\_\_\_

Dated : 23.09.2009

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 58<sup>th</sup> Power System Operational Co-ordination meeting held on 30.07.09 at PTC, Chandaka, OPTCL, Bhubaneswar.**

Sir,

Please find enclosed herewith the minutes of 58<sup>th</sup> Power System Operational Co-ordination meeting held on 30.07.09 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.