

**MINUTES OF DISCUSSION IN 53<sup>rd</sup> POWER SYSTEM OPERATIONAL COORDINATION  
MEETING HELD AT 11.30 HRS. ON 20.01.2009 AT OPTCL POWER TRAINING CENTRE  
CHANDAKA, BHUBANESWAR**

**List of participants enclosed at Annexure-A**

**No representative from WESCO, OPGC, NALCO and Machhakund PH has attended the meeting.**

Director (Engineering) welcomed all the participants to the 53<sup>rd</sup> Power System Operational Co-ordination meeting.

*Sr. G.M (PS) gave a brief overview of system performance such as Voltage & Frequency profile, State maximum & minimum system demand, important events in OPTCL system and major incidents occurred in OPTCL system during the month of December 2008.*

Thereafter, GM (SLDC) took the agenda items for discussion.

The review proceeded as follows:

**Item No.1-Confirmation of the minutes of 52<sup>nd</sup> PSOC meeting held on 26.12.2008 at PTC, Chandaka, Bhubaneswar .**

Since Members have no comments for the minutes of 52<sup>nd</sup> PSOC meeting, the minutes of the meeting was confirmed.

**Item No. 2- Review of Grid performance for the month of December 2008.**

**2 (A) - Frequency**

The one-minute instantaneous System frequency for the month of December'08 was reviewed. It was noticed that **99.50%** of times, the frequency remained in the band of 49.0Hz - 50.5Hz (IEGC band) during the month as compared to 99.38% during November'08. The maximum and minimum System frequency during the month of December'2008 was 50.65 Hz and 48.84 Hz respectively. The monthly frequency profile, FVI & Standard Deviation for the month of December' 2008 was reviewed. The frequency profile during the month December'08 is noticed to be improved in comparison to the month of November'2008.

**2 (B) – Grid demand**

Grid demand for the month of December' 2008 was reviewed. The maximum and minimum System demand of 2940 MW occurred on 26.12.08 at 19:00 Hrs & 1573 MW occurred on 13.12.08 at 04:00 Hrs. respectively. The hourly demand profile for the month of December'2008 was reviewed. It is observed that, the maximum demand and the minimum demand has increased during the month of December' 2008 in comparison to November' 2008.

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

The maximum and minimum Bus Voltage at major 220 kV buses occurred during the month of December 2008 was reviewed. It is noticed that the maximum voltage occurred at 220 kV Narendrapur S/S, was **267** kV. The minimum voltage of **192** kV occurred at Bidanasi S/s. The maximum Voltage at Narendrapur S/S was due to under loading of transmission lines during off-peak hours.

**Deliberation in the meeting**

Sr.G.M.(PS) stated that persistence of high voltage problem at Narendrapur 220kV during off peak condition need to be addressed. At present voltage management is being done by isolating multi circuit transmission lines. A study may be conducted for the above high voltage problem and M/S PRDC may be asked to offer their views for taking remedial measures.

Director (Engineering) stated that a list indicating the number of such isolation (transmission lines) made for voltage management during last month may be prepared for review.

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

**Item No. 2 (D) - Energy Generation During The month of December'08**

Energy generated by different State generating stations including IbTPS , TTPS , CGPs and import from ISGS station during the month was reviewed.

**Item No. 2 (E) - DISCO Drawal During The month of December'08**

The quantum of energy drawn by Discos during the month was reviewed.

C.G.M.(Const.) stated that the approved quantum of energy for the FY 2008-09 and cumulative drawal by the DISCOs up to the end of previous month may be indicated for comparison.

It was agreed by Sr.G.M.(PS) to furnish the above figures in future months.

**Item No. 2 (F) - Major Events in the month of December' 2008**

07.12.08- At 14:10 hrs, 220kV IB-Budhipadar Ckt.-IV was idle charged and loaded on 08.12.08.

23.12.08- At 11:08 hrs, 75MW Unit-VII of Balimela Extension Project was declared commercially operated.

31.12.08- At 17:47 hrs, 220kV Indravati-Theruvai Vkt.-IV charged from Theruvai end and upto the line CT of Indravati Switchyard.

**Item No. 2 (G) - UFR Operation in OPTCL System in the month of December' 2008**

There is no UF Relay operation occurred during the month of December'08.

### **Deliberation in the meeting**

CGM (O&M) stated that the decision regarding installation of df/dt relays at different location of OPTCL System is under process.

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

### **Item No. 2 (H) - Important Grid incidents**

Major grid incidents for the month of December' 2008 were reviewed.

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

Sr.G.M.(PS) stated that the incident occurred on 14.12.2008 at Southern area of OPTCL network had been analyzed in the last OCC meeting of ERPC at Kolkata. A meeting was also held at OPTCL Conference Hall on dt.19.01.09 in presence of Director (Engg.), C.G.M.(O&M), GM (ERLDC)and representative of PGCIL to ascertain the reasons of the disturbance. As deliberated by PGCIL representative, CVT error at Indravati 400kV Bus may be one of the reasons. However GM(ERLDC) wanted to know the reasons of hand tripping of feeders at Jayangar and Theruvali grid S/ss. SLDC was requested to furnish the same.

RSP representative stated that tripping of Autotransformer at Tarkera Grid S/s has not been mentioned in the incident report

SLDC representative stated that the above incident is not coming under major incident, as it is not associated with area load interruption for more than one hour.

### **Item No. 2 (I) - Major Transmission Lines/ Elements Outage during the month of December'08.**

Outage of major Transmission Lines/ Elements during the month of December' 2008 was reviewed.

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

The power drawal from Macchakund PH during the month of December' 2008 was reviewed.

#### **Installation of breaker in the railway feeder:**

##### **Deliberations in the meeting**

As decided in the last meeting Sr.G.M.(OHPC) stated that OHPC has already pursued the matter with Machhkund Authority for installation of breaker at Machhkund PH in the 132kV railway feeder.

Sr.G.M.(PS) stated that since no action seems to be taken by the Machhkund Authority for installation of breaker OHPC may remind for the same to Machhkund Authority with intimation to C.G.M.(O&M), OPTCL, so that the matter will be taken up at his end.

**Installation of CVT at Jayanagar S/s for displaying the Machhkund drawal data at ULDC Control room:**

### **Deliberations in the meeting**

Regarding display of Machhkund data, Telecom representative stated that the matter will be taken up in “SCADA Review” meeting at ERLDC, Kolkata on dt.22.01.09.

### **PPA meeting with Machhkund Authority:**

#### **Deliberations in the meeting**

GRIDCO representative stated that during FY-2008-09 drawal of Machhkund power was 35MU less than the State's share. He also stated that at present GRIDCO share on Machhkund generation is 30%, which can be carried over to the next FY. In addition to above GRIDCO can avail 20% of Machhkund generation on purchase basis which cannot be carried over to the next FY. However action is being taken for conversion of the purchase portion into shares i.e. GRIDCO can draw 50% of Machhkund generation as its share. The date for PPA revision meeting is yet to be finalized.

C.G.M.(O&M) stated that, whether it is feasible to invest for renovation of Machhkund PH. GRIDCO representative stated that the since the Power Market is boosting, there is no harm for investment for renovation of Machhkund PH. However the matter has been decided and agreed at Ministerial level.

#### **Deliberations in the meeting**

C.G.M.(O&M) stated that M/S Minakshi Power Ltd. was allowed connectivity with 132 kV bus of Jayanagar Grid S/S. Machhakund feeder and the matching load feeders are connected to the above bus section. The Minakshi Power station units will remain in Southern Region along with Machhakund Power station.

Sr.G.M.(PS) stated that at present we are not able to draw share of Machhkund power due to matching load problem. It may not be possible to draw Minakshi Power along with Machhkund share. In case of reduced drawal by those feeders Minakshi Power may flow to Machakund bus.

Director (Engineering) stated that in view of the above problems it may be examined for connectivity of Minakshi PH with BTH system through 132kV cable.

RSP representative was requested to forward the address in details of the firms manufacturing 132kV cables to OPTCL.

**Item No. 4 –Review of Outage Programme of State Generators / Transmission elements for the month of January & February’09 .**

Outage programme of EHT lines and S/S for the year 2008-09 has been finalized and being implemented.

Tentative outage programme for State Generators for January & February’09 are as follows:

Sl.	Station	Unit	January’09		February’09	
1	Chiplima	# 3	04.11.06 to continue	Abnormal sound in turbine	04.11.06 to continue	Abnormal sound in turbine
2	Burla	# 2	04.12.08 to 31.01.09	Annual Maintenance	-	-
		#3	-	-	05.02.09 to 04.03.09	Annual Maintenance
3	Rengali	# 1	18.08.08 to Continue	Winding Problem	18.08.08 to Continue	Winding Problem
		# 3	15.12.08 to 15.01.09	Annual Maintenance	-	-
		#2	15.01.09 to 13.02.09	Annual Maintenance	15.01.09 to 13.02.09	Annual Maintenance
4	U.Kolab	# 3	09.01.09 to 09.02.09	Annual Maintenance	09.01.09 to 09.02.09	Annual Maintenance
5	U. Indravati	# 3	05.01.09 to 02.02.09	Annual Maintenance	05.01.09 to 02.02.09	Annual Maintenance

**Item No. 5 – Generation Programme for the month of January & February’08**

The generation schedule (Average) for the month of January & February’08 are as follows.

Name of Hydro Gen. Station	Generation Programme (MW)	
	Jan’09	Feb’09
HPS, Burla	50+20	40+20
U.Indravati	270	300
Balimela	70	85
U.Kolab	50	80
Rengali	65	25
MKD (O/D)	20	20
<b>TOTAL</b>	<b>545</b>	<b>570</b>

**Item No. 6 –Progress and Programme of completion of WB & ADB funding / Deposit work / Gridco’s own funding Lines & sub-stations.**

❖ **Charging of 220kV Indravati – Theruvali 4<sup>th</sup> ckt.**

**Deliberation in the meeting:**

The line was charged on 31.12.08 but tripped along with Ckt.-III. At present the line is out of service. The line is expected to be charged by 31.01.09.

❖ **132kV Burla-Sambalpur LILO at Katapalli.**

**Deliberation in the meeting:**

The work is expected to be completed by February’09.

❖ **220/132kV Bolangir Grid S/S and 220 kV Katapalli-Bolangir line.**

**Deliberation in the meeting:**

The construction work of 220kV Bolangir-Katapalli line is under progress. Due to frequent theft of the line the work is getting delayed.

**Item No. -7 Communication issues**

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

**Deliberation in the meeting**

**NALCO**

It was decided in the last meeting that, in case of disagreement by NALCO to install RTU on payment basis, the RTU may be removed from NALCO and installed elsewhere.

G.M.(Telecom) stated that till now no consent has been received from NALCO regarding deposit of cost of RTU.

Director (Engg.) instructed G.M.(Telecom) to remind NALCO in this matter.

[Action – NALCO, G.M (Telecom)]

**RSP**

RSP representative stated that their internal RTU has already been installed. The specification of RTU to be installed at Tarkera is required.

It was decided to hold a meeting between RSP and G.M.(Telecom) to resolve the above issue.

[Action – RSP, G.M (Telecom)]

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

**Deliberation in the meeting**

The status of CGPs for providing SCADA/PLCC equipment and data display for the transmission elements at SLDC control room as stated by Telecom representative are as detailed below

Sl. No	Name of CGP	Status of procurement of RTU and equipments
1	M/S BSSL, Meramunduli	All equipments commissioned. Datat is not displaying due to problem in digital system. Breaker status is yet to come.
2	M/S VAL, Jharsuguda	Wrong data displaying. ABB engineer has already arrived. It is now under observation.
3	M/S Hind Metals, Meramunduli	ABB engineers to rectify the problem.
4	M/s Bhushan Power & Steel Ltd, Jharsuguda	RTUs procured by Bhusan are not compatible to our system. They need to be replaced.
5	M/S EMAMI	Already commissioned, but still under observation.

The status of the transmission elements for which the data is not being displayed in the SLDC control room.

Sl. No	Name of transmission element	Action taken / present status
1	220/132 kV Auto –IV at Tarkera	This is a new work and is not covered under ULDC project. However procurement of transducers is under process.
2	In correct data at Bidanasi Auto-I & II	AREVA representative had visited twice the site but could no able to trace the problem. Telecom will go to AREVA to request for sending a experienced executive.
3	Incorrect data at Theruvali Auto I&II	The problem has already been rectified.
4	Auto-I & II at 220kV Bhadrak Grid substation	Wiring of RTUs is under process.
5	220kV Indravati-Theruvali 3 <sup>rd</sup> & 4 <sup>th</sup> Ckt.	Already completed.
<b>Future Requirements</b>		
6	Chandaka Auto-IV	-
7	Paradeep Auto-I (100MVA) & II (50MVA)	-

G.M.(Telecom) stated that in the new scheme proposed by PGCIL the procurement of RTU has been provided .

[Action- G.M (Telecom)]

**Item No. 8- OTHERS:**

**A. Time Synchronization With Geo Positioning System (GPS)**

**Deliberation in the meeting**

It was decided that all the Grid substations shall be instructed through their respective G.M. for matching of time with SLDC twice a week.

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

**B. Functioning of EBC Software & Maintenance of SLDC website:**

**Deliberation in the meeting**

CGM(IT) has agreed over phone to send their representative to SLDC for discussion on the above issues.

**C. Revival of Monthly Coordination Meeting at Circle Level.**

**Deliberation in the meeting**

It was decided to hold the monthly coordination meeting at circle level to resolve local issues between DISCOS and OPTCL. All the G.M. in charge of E.H.T.(O&M) Circles shall be instructed accordingly.

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

## **Item No. 9: Issues relating to Discos:**

### **CESU**

CESU representative stated that at present Kaipadar(T) S/S is being fed from Khurda, due to which the consumers are suffering from low voltage problem and frequent power interruption occurs at the traction feeder.

### **Deliberation in the meeting**

C.G.M.(O&M) stated that the railway Authority may be insisted to furnish their contract demend.

Director (Engg.) stated that after commissioning of the 4<sup>th</sup> Auto at Chandaka grid S/s, the issue will be examined.

CESU representative stated that M/S Lakhmi Ltd. has sought permission for connectivity to OPTCL system with LILO arrangement from the existing 132kV Dhenkanal – OSL line.

### **Deliberation in the meeting**

Director (Engg.) stated that the above line is dedicated to M/S OSL (Orissa Synthetic Ltd.) only.

In response to the low voltage problem raised by CESU in Tangi area, Director (Engg.) stated that there is a 33kV spare bay available at Balugaon S/s. CESU may utilize the bay and divert Runpur feeder load by drawing another 33kV feeder for Tangi area.

### **SOUTHCO**

Director (Engg.) wanted to know the status of 33kV Digapahandi-Chikiti line which is required for diversion of Chikiti load from Berhampur to Digapahandi S/s..

### **Deliberation in the meeting**

SOUTHCO representative stated that only 5 kms of the above line is left for completion. The line will be charged by 31<sup>st</sup> March'09.

### **NESCO**

NESCO representative stated that the SMD recorded for export of power by M/S Jindal to OPTCL system is being charged to NESCO, which may be corrected.

### **Deliberation in the meeting**

GRIDCO representative agreed to look into the matter.

NESCO representative stated that after charging of 2<sup>nd</sup> 220kV New Duburi- Jindal line, a summation CT is required for metering purpose.

### **Deliberation in the meeting**



Director (Engg.) stated that NESCO may write a letter to GRIDCO with copy to OPTCL in this regard. On receipt of letter the matter will be examined.

**Item No. 10- Issues relating to TTPS:**

**Shutdown of 220kV TTPS-Kaniha Ckt.:**

GM(SLDC) stated that in spite of instructions issued from SLDC TTPS authority did not charge the above line after shut down work which would have been led to theft of conductor.

**Deliberation in the meeting**

TTPS representative stated that the line was under shutdown for testing of relays. M/S BHEL could not complete the work within the expected time.

TTPS representative stated that, they want to avail shutdown for maintenance of 220 kV Bus Coupler, 220/132 kV Auto-I & II and generating Unit # 4, from March onwards.

Sr.G.M.(PS) stated that TTPS could have availed shut down during winter months. Since the power scenario of the State is not good, shut down during summer month may not be feasible. TTPS representative stated that all efforts will be made to minimize the area load interruption.

It was decided that TTPS in consultation with C.G.M.(O&M) shall finalise the the outage programme.

**RSP:**

RSP representative stated that they are thankful to OPTCL for extending support during outage of their unit. He also stated that the unit will be synchronized soon.

**ICCL**

ICCL representative stated that there is only one circuit of 132 kV Choudwad- Chainpal is kept closed. In case of outage of Bidanasi-Choudwar line ICCL generation is getting affected due to power drawal by Rly feeder at Choudwar. He proposed to close the 2<sup>nd</sup> 132 kV ckt between Choudwar and Chainpal & extended up to Meramundali to avoid overloading.

C.G.M.(O&M) stated that, during low generation of ICCL only one circuit is kept in service. However during high generation of ICCL both the circuits are kept in service.

**Item No:11 : The date and venue of 54<sup>th</sup> Operational Coordination meeting shall be intimated soon.**

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