

Orissa Power Transmission Corporation Ltd.  
Bhubaneswar.



*Agenda  
for  
57<sup>th</sup> Power System Operational  
Coordination Meeting*

Date: 27.05.2009

Venue: OPTCL Power Training Center, Chandaka, Bhubaneswar

**AGENDA FOR THE 57<sup>th</sup> POWER SYSTEM OPERATIONAL CO-ORDINATION MEETING  
TO BE HELD AT OPTCL POWER TRAINING CENTER, CHANDAKA, BHUBANESWAR ON  
27.05.2009 (WEDNESDAY) AT 11.30 HOURS**

**ITEM NO: 1 Confirmation of the minutes of the 56<sup>th</sup> Operational Coordination Meeting held at, PTC, CHANDAKA, OPTCL, Bhubaneswar on 22.04.09.**

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2007(Vol.-V)-697<sup>(28)</sup>, Dated 25.04.2009. 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.*

**ITEM NO: 2 REVIEW OF GRID PERFORMANCE FOR APRIL'09.**

**(A) Frequency:**

**Hourly frequency variation for the month of March & April'09**

Month	% of time frequency remained					
	<49.2	49.2-49.5	49.5-50.0	50.0-50.3	>50.3	49.2-50.3
April-09	16.43	36.12	42.25	4.76	0.44	83.12

**Maximum & Minimum frequency during the month of March & April'09**

Month	Freq (Hz)	Date	Time
March-09	Maximum – 50.66	02.03.2009	04:02 Hrs
	Minimum – 48.81	09.03.2009	21:18 Hrs
April-09	Maximum – 50.56	05.04.2009	08:04 Hrs
	Minimum – 48.74	30.04.2009	00:13 Hrs
April-08*	Maximum – 50.53	06.04.2008	03:10 Hrs
	Minimum – 48.84	28.04.2008	23:36 Hrs

The details of frequency profile for the month of **April'09** are enclosed as **Annexure-I**.

**(B) Grid Demand for the month of March & April'09**

Month	Demand	Maximum Consumption		Maximum Demand			Minimum Demand		
	MU	MU	Date	MW	Date	Time	MW	Date	Time
March-09	1779	60.36	10.03.09	3021	09.03.09	20:00	1836	26.03.09	04:00
April-09	1697	58.56	28.04.09	2860	17.04.09	21:00	1748	20.04.09	15:00
April-08*	1641	57.66	26.04.08	2903	30.04.08	20:00	1313	05.04.08	14:00

The Hrly average demand on daily basis for the month of **April'09** is enclosed as **Annexure-II**.  
**Members may please discuss.**

*\*\*The grid demand is calculated from the generation-exchange figures basing on instantaneous meter readings at STPS-TTPS, STPS-Duburi, STPS-Rengali & Indravati Generation and average meter reading of the rest.*

**(C) Voltage Profile of 220 KV Buses in OPTCL system for the month of April '09**

S/s Name	Maximum (KV)	Minimum (KV)	S/s Name	Maximum (KV)	Minimum (KV)
Jayanagar	246	226	Budhipadar	240	213
Theruvalli	240	214	Duburi	230	206
Bhanjanagar	229	194	Balasore	220	<b>185</b>
Chandaka	220	<b>185</b>	Meramundali	224	194
Narendrapur	<b>257</b>	202	Bidanasi	220	194
Joda	222	182	Katapalli	220	190
Tarkera	222	212	Nayagarh	234	192
Bhadrak	215	<b>185</b>			

The maximum voltage at Narendrapur Grid S/s was 254kV occurring during off peak hours due to under loading of long transmission lines.

The minimum Voltage at Chandaka is occurring most of the days during peak load hours due to over loading of transmission lines. Low Voltage At Bhadrak & Balasore grid was due to disturbance at Duburi command area.

**(D) Energy Generation / Import during the month of April'09**

Source of Power	Energy (MU)
Thermal (TTPS+IB)	579.203
OHPC Stations including Machhkund share	453.497
CGP Support	220.063
ISGS drawal	535.102

**(E) DISCO Drawal during the month of April '09**

Name of DISCO	Approved Energy drawal Prorated up to April'09 in MU	Actual Energy Drawal during April'09 in MU	Difference (MU) (Prorated Vs. Actual)
CESU	503.75	534.74	-30.99
NESCO	357.08	400.18	-43.10
WESCO	535.83	515.51	20.32
SOUTHCO	180.08	194.32	-14.24

*\*The above figures are as per EBC data and Pool Cost data.*

*Energy drawal by SOUTHCO are excluding of energy consumed by NALCO, Damanjodi and IMFA, Theruvalli*

**(F) Major Events in the month of April'09.**

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.

**(G) Under Frequency Relay operation in OPTCL System during the month of April'09.**

There is no UF Relay operation occurred during the month of April'09.

As decided in the last meeting a meeting was held on 07.05.2009 between Sr G.M (Power System) & CGM (O&M) for identifying the locations for installation of df/dt relays in

OPTCL system. 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		
Total	184		118

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

*Members may discuss.*

**(H) Important Grid Incidences during the month of April'09**

The important Grid incidents occurred during the month of April'09 is annexed as Annexure-III.

*Members may discuss*

**Tripping of 132 kV Choudwar-Chainpal line/ Meramunduli Auto- islanding of ICCL & NBVL units**

Frequent disturbances due to tripping of Choudwar-Chainpal line and Meramunduli Auto was noticed during the month of April & May 2009, consequently islanding of ICCL and NBVL units. About 120 MW of generation was lost in the system during the above period, which is very much important at this juncture of deficit generation scenario. The reason might be due to over injection by M/s Aarati Steel Ltd which lead to tripping of Meramunduli auto on reverse power flow. 132 kV Arati-Meraminduli- Chainpal line is kept opened at Chainpal end due to breaker problem causing pushing of power to Meramunduli 132 kV bus from Arati feeder. Further generation of M/s NBVL to the tune of 70 MW also landing at 132 kV Meramunduli bus. The details of tentative power flow in the above lines is enclosed as III(a)

*CGM (O&M) may please deliberate on the above issue*

**220 kV TTPS-Joda line- Delay in restoration due to breaker problem at Joda end**

Complaint have been received from TTPS authority that, 220 kV Joda –TTPS ckt-II could not be restored due to breaker problem at Joda in the event of disturbance at Joda Grid S/S causing limitation of TTPS evacuation.

*CGM (O&M) may please deliberate on the above issue*

**(I) Outage of major transmission Lines/ Elements during the month of April'09 (for more than 10 hours.**

Sl No.	Lines/Elements under Outage	Date & Time of Outage	Date & Time of Restoration	Reason
1	132kV Narendrapur-Chhatrapur Ckt.-I.	09.04.09/ 18:55	10.04.09/ 12:22	'Y' ph insulator damaged at Loc No.-22.
2	132kV Meramundali-Duburi Ckt.-I	18.04.09/ 15:15	20.04.09/ 08:55	'R' ph CT burst at Duburi S/s damaging isolator and jumper.
3	220/132kV , 100MVA Auto-III at Tarkera	19.04.09/ 02:45	19.04.09/ 23:20	'Y' ph CT burst on 132kV side.
4	132kV Burla-Sambalpur Ckt.	19.04.09/ 20:30	20.04.09/ 11:24	'R' ph wave trap jumper snapped.
5	220kV Bhanjanagr-Theruvalli Ckt.-I.	20.04.09/ 13:11	25.04.09/ 16:50	Insulators of al three phases damaged at loc. No. 719.
6	132kV Berhampur-Digapahandi-Mohana-Akhusingh Ckt.	20.04.09/ 13:20	21.04.09/ 13:48	'B' ph lightning arrester failed at Digapahandi S/s.
7	132kV Meramundali-Duburi Ckt.-I	21.04.09/ 19:16	22.04.09/ 19:16	'B' ph CT burst at Duburi S/s.
8	220kV Bhanjanagar-Mendhasal Ckt.	23.04.09/ 10:25	25.04.09/ 09:40	Middle conductor snapped at Loc. No.-406.
9	132kV Chhatrapur-Ganjam Ckt.	24.04.09/ 01:05	27.04.09/ 18:52	'B' ph conductor snapped at loc no.-8 and tower twisted at loc. No-9.
10	132kV Narendrapur-Chhatrapur Ckt.-II.	24.04.09/ 01:50	24.04.09/ 11:58	'B' ph insulator damaged at Loc No.-21.

From the above data it is noticed that, most of the tripping are due to failure of insulators, jumper snapping and CT bursting.

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

**ITEM NO: 3 Drawal of Machhakund Power**

The hourly drawal of Machhakund power during the month of April'09 is annexed herewith as Annexure-IV. The average drawal during April 2009 was 20 MW. Present drawal from Machhkund is to the tune of 22 MW in average. At present only four nos. of Machhakund units are available in the bus, generating 76 MW. Since Machhakund authority are not allowing to draw more power during peak hours, the daily average drawal is being reduced.

It was decided in the last meeting that Gridco shall take up Machhakund issue with APGENCO for fulfilling of their commitments in the meeting. In case they fail, the issue may be taken up with CERC.

***Sr. G.M (PP), Gridco Ltd. may please deliberate the status.***

**Display of Machhkund generation:**

Due to burning of RTU, generation data of Machhakund units are not being displaying in the control room. New RTU need to be installed at Machhakund. It was deliberated in the last meeting that, the offer for RTU has already been received and sent to OHPC for procurement action.

*Sr.G.M (OHPC) may please deliberate the status.*

**ITEM NO: 4 Review of Outage Program 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 yet to be finalized.

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

The detailed unit outage during the month of April'09 is annexed as Annexure-V.

Representative from OHPC is requested to give a deliberation on the outage programme.

**ITEM NO: 5 Generation Program for the month of May & June'09.**

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

Sl. No	Details of project	Status as on last meeting	Need to be deliberated by
1	132 kV Burla-Sambalpur SC line	The construction is under progress and expected to be charged during June 2009.	Sr.GM (TP &C)
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 June 2009.	Sr.GM (TP &C)

*Sr.GM.(TP&C), OPTCL may please deliberate the present status*

**ITEM NO:7** Communication issues

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

In the last meeting NALCO has stated that procurement action for RTU has been taken by them

*NALCO may please deliberate the status.*

Installation of RTU and associated equipments for RSP.

*G.M (Telecom) may please deliberate the present status*

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

As stated by A.G.M (Telecom), in the last meeting, the status of installation of SCADA/PLCC equipments of some of the major CGPs is as follows.

Sl. No	Name of CGP	Status of procurement of RTU and equipments
1	M/S BSSL, Meramunduli	All equipments commissioned. Data 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. It is already intimated to Bhusan.
5	M/S EMAMI	Already commissioned, but still under observation.

*G.M (Telecom) may please deliberate the present status.*

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

It was deliberated in the last meeting that a proposal has been made by PGCIL to integrate the remaining elements in the SCADA system

*G.M (Telecom) may please deliberate the present status.*

**(IV) Display of DISCOM Drawal Data at SLDC Control Room:**

For display of DISCOM drawal, the list of S/s ( Company wise) covered under SCADA has been prepared by Telcom executives at SLDC and handed over to System Support wing for verification. After verification the drawal data shall be consolidated and displayed.

***ITEM NO:9*** Members may raise issues if any:

***ITEM NO:10*** Date and Venue of the next (58<sup>th</sup>) PSOC meeting:

The members may decide the Venue and date of the 58<sup>th</sup> Power System Operational Co-ordination meeting.



# ORISSA POWER TRANSMISSION CORPORATION LTD.

OFFICE OF THE Sr. GENERAL MANAGER (POWER SYSTEM)

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

Dated : 18.05.2009

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 Ditribution), 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: 57<sup>th</sup> Power System Operational Co-ordination meeting is scheduled to be held at PTC, Chandaka.**

Sir,

The 57<sup>th</sup> Power System Operational Coordination meeting is scheduled to be held at **11:30 A.M. on 27.05.09 (Wednesday)** at PTC, Chandaka, Bhubaneswar. You are requested to make it convenient to attend the meeting. The agenda items of the meeting may be seen from SLDC website "sldcorissa.org.in".

Yours faithfully,

Sr. G.M.(Power System )

No. \_\_\_\_\_ Dated \_\_\_\_\_

Copy forwarded to the AGM (HRD) in charge of Power Training Center, Chandaka to spare a hall for the meeting / Asst to Sr. G.M (PS) for information. He is requested to make necessary arrangement for the above meeting.

Sr. G.M.(Power System )

No. \_\_\_\_\_ Dated \_\_\_\_\_

Copy forwarded to Mr. G.Adishesu, Director (Hydro), APGENCO Ltd., Vidyut Soudha, Hyderabad-500082, Andhrapradesh. FAX- 040-23499398/39839398. He is requested to send his representative for participating in the meeting.

Sr. G.M.(Power System )

No. \_\_\_\_\_ Dated \_\_\_\_\_

Copy forwarded to the Executive Assistant to CM.D, OPTCL for kind information of CM.D.

Sr. G.M.(Power System )