

Orissa Power Transmission Corporation Ltd.
Bhubaneswar.



*Agenda
for
56th Power System Operational
Coordination Meeting*

Date: 22.04.2009

Venue: OPTCL Power Training Center, Chandaka, Bhubaneswar

**AGENDA FOR THE 56th POWER SYSTEM OPERATIONAL CO-ORDINATION MEETING
TO BE HELD AT OPTCL POWER TRAINING CENTER, CHANDAKA, BHUBANESWAR ON
22.04.2009 (WEDNESDAY) AT 11.30 HOURS**

ITEM NO: 1 Confirmation of the minutes of the 55th Operational Coordination Meeting held at, PTC, CHANDAKA, OPTCL, Bhubaneswar on 30.03.09.

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2007(Vol.-V)-669⁽²⁵⁾. Dated 21.04.2009. 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 MARCH'09.

(A) Frequency:

Hourly frequency variation for the month of February & March'09

Month	% of time frequency remained				
	<48.00	48.0-49.0	49.0-50.5	50.5-51.0	>51
Feb-09	0.00	2.54	97.34	0.12	0.00
March-09	0.00	1.26	98.57	0.17	0.00
March-08*	0.00	19.85	80.08	0.06	0.00

Maximum & Minimum frequency during the month of February & March'09

Month	Freq (Hz)	Date	Time
Feb-09	Maximum – 50.75	11.02.2009	04:07 Hrs
	Minimum – 48.67	24.02.2009	00:03 Hrs
March-09	Maximum – 50.66	02.03.2009	04:02 Hrs
	Minimum – 48.81	09.03.2009	21:18 Hrs
March-08*	Maximum – 50.79	22.03.2008	17:08 Hrs
	Minimum – 48.60	06.03.2008	00:05 Hrs

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

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

Month	Demand	Maximum Consumption		Maximum Demand			Minimum Demand		
	MU	MU	Date	MW	Date	Time	MW	Date	Time
Feb-09	1532	56.91	24.02.09	2907	20.02.09	19:00	1601	16.02.09	14:00
March-09	1779	60.36	10.03.09	3021	09.03.09	20:00	1836	26.03.09	04:00
March-08*	1682	56.23	17.03.08	2906	04.03.08	20:00	1607	22.03.08	15:00

The Hourly average demand on daily basis for the month of **March'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 March '09

S/s Name	Maximum (KV)	Minimum (KV)	S/s Name	Maximum (KV)	Minimum (KV)
Jayanagar	244	221	Budhipadar	224	219
Theruvalli	248	214	Duburi	232	215
Bhanjanagar	225	201	Balasore	228	200
Chandaka	224	190	Meramundali	223	200
Narendrapur	254	201	Bidanasi	226	195
Joda	225	210	Katapalli	218	205
Tarkera	225	215	Nayagarh	228	203
Bhadrak	223	188			

The maximum voltage at Narendrapur Grid S/s was 254kV, due to load crushing at Khurda area owing to rain & thunderstorm. The minimum Voltage at Chandake grid was 190 kV due to extreme loading of transmission lines.

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

Source of Power	Energy (MU)
Thermal (TTPS+IB)	634.364
OHPC Stations including Machhkund share	406.149
CGP Support	214.658
ISGS drawal	612.376

(E) DISCO Drawal during the month of March '09

Name of DISCO	Energy Prorated up to March'09 in MU	Actual Energy Drawal up to March'09 in MU	Difference (MU) (Actual Vs. Prorated)
CESU	5300.00	5672.6	-372.6
NESCO	4660.00	4545.11	114.891
WESCO	5680.00	6369.06	-689.06
SOUTHCO	1980.00	2176.29	-196.29

**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 March'09.

16.03.09- At 20:02 hrs 220/132kV 100MVA Auto-IV at Chandaka charged from 220kV side.

23.03.09- At 11:55 hrs 20 MW CGP of M/S Rathi Udyog Ltd was synchronized with OPTCL system through the dedicated 33kV feeder from Katapalli Grid S/s.

24.03.09- At 13:15 hrs 2nd 25MW unit of M/S Visa Steel Ltd CGP was synchronized with OPTCL system.

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

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

It was decided in the last meeting to identify the locations for installation of df/dt relays in OPTCL system.

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

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

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

Members may please discuss.

(I) Outage of major transmission Lines/ Elements during the month of March'09

Sl No.	Lines/Elements under Outage	Date & Time of Outage	Date & Time of Restoration	Reason
1	132kV Balasore-Kuchei Ckt.	04.03.09/ 00:21	04.03.09/ 13:06	'R' ph insulator damaged at Loc No.-34 at Kuchei.
2	132kV Dhenkanal-ICCL Ckt.	06.03.09/ 06:40	06.03.09/ 17:07	'R' ph insulator damaged at Loc No.-232 in Dhenkanal-Maheswari ckt.
3	132kV Kendrapara-Paradeep Ckt.-I	09.03.09/ 23:36	10.03.09/ 12:20	'Y' ph insulator damaged at Loc No.-289,290 & 291 at Kendrapara.
4	132kV Theruvali-J.K.Paper Ckt.	14.03.09/ 03:36	14.03.09/ 20:02	'R' ph insulator damaged at Loc No.-38 at Theruvali.
5	132kV Meramundali-TTPS Ckt.-II	17.03.09/ 17:20	18.03.09/ 23:26	No fault found
6	220/132kV 100MVA Auto-IV at Chandaka.	19.03.09/ 18:54	20.03.09/ 18:18	Oil leakage from 132kV side Y & B-ph. bushing.
7	132kV Chhatrapur-Balugaon Ckt.	20.03.09/ 06:03	20.03.09/ 15:10	'B' ph insulator damaged at Loc No.-25 at Chhatrapur.
8	132kV TTPS-Kaniha Ckt.	20.03.09/ 18:05	21.03.09/ 12:33	No fault found
9	132kV Joda-TTPS Ckt.-II	25.03.09/ 19:35	30.03.09/ 14:50	'R' ph insulator damaged at Loc No.-500 at Jodai.
10	132kV Budhipadar-Vedanta Ckt.-I	26.03.09/ 00:57	26.03.09/ 13:35	'Y' ph conductor snapped at Loc No.-15 at Vedanta.
11	132kV Dhenkanal-Maheswari Ckt.	28.03.09/ 06:02	28.03.09/ 14:20	'B' ph insulator damaged at Loc No.-182 at Dhenkanal.
12	132kV Balasore-Kuchei Ckt.	28.03.09/ 20:49	29.03.09/ 13:17	'Y' ph jumper snapped near Baripada.
13	132kV Jayanagar-Meenakhi Ckt.	29.03.09/ 19:18	30.03.09/ 15:34	'B' ph CT burst at Meenakhi end.

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

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

The hourly drawal of Machhakund power during the month of March'09 is annexed herewith as Annexure-IV. The average drawal during March 2009 was 22 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 the issue of Inter-Regional transfer of Machhakund share with ERLDC and ERPC with a request to raise the above issue in the inter-Regional meeting.

Display of Machhkund drawal:

It was programmed for connection of PT secondary terminal of Machhkund feeder at Jayanagar during April'09 to display the Machhkund drawal data at ULDC Control room.

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. A proposal to OHPC to bear the cost of RTU to be made by G.M.(Telecom).

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

ITEM NO: 4 Review of Outage Program of State Generators / Transmission elements for the month of April & May'09:

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

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

Sl.	Station	Unit	April'09		May'09	
1	Chiplima	# 3	04.11.06 to continue	Abnormal sound in turbine	04.11.06 to continue	Abnormal sound in turbine
2	Burla	# 1	16.03.09 to Continue	Annual Maintenance	-	-
		# 5	09.04.09 to Continue	Annual Maintenance	09.04.09 to Continue	Annual Maintenance
3	Rengali	# 1	18.08.08 to Continue	Winding Problem	18.08.08 to Continue	Winding Problem
		#2	15.01.09 to 31.05.09	Annual Maintenance	15.01.09 to 31.05.09	Annual Maintenance
4	U. Indravati	# 2	06.04.09 to 05.05.09	Annual Maintenance	06.04.09 to 05.05.09	Annual Maintenance
		# 4	-	-	07.05.09 to 05.06.09	Annual Maintenance
5	Balimela	# 3	20.04.09 to 19.05.09	Annual Maintenance	20.04.09 to 19.05.09	Annual Maintenance

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

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

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

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.03.09	Reservoir Level as on 01.04.09	MDDL	High Flood Reservoir Level
	April'09	May'09				
HPS, Burla	15+10	15+10	612.67ft	607.50ft	590 ft.	630 ft.
U.Indravati	240	75	632.70mtr	629.86mtr	625mtr	642 mtr
Balimela	80	120	1455.60ft	1447.90ft	1440 ft.	1516 ft.
U.Kolab	60	80	850.03mtr	848.70mtr	844 mtr	858 mtr.
Rengali	25	40	116.09mtr	114.53mtr	109.2mtr	123.5 mtr.
MKD (O/D)	30	30	2732.65ft	2723.90ft	2685 ft.	2750 ft.
TOTAL	460	370				

ITEM NO: 6 Progress & Program of completion of WB and ADB funding / Deposit work / OPTCL's own funding Lines & Substations.

- ❖ 132kV Burla-Sambalpur LILO at Katapalli.
- ❖ Commissioning of 220/132 kV Bolangir S/S 220 kV Katapali –Bolangir line.
- ❖ Commissioning of 220/132 kV Auto at Paredeep Grid S/s.

Sr.G.(TP), OHPC may please deliberate the status

ITEM NO:7 Communication issues

The frequent failure of SCADA system in the ULDC control room was discussed in the last meeting. It was also decided that since the SCADA system is under AMC, CMD, PGCIL may be intimated indicating all the details under the signature of Director (Engg).

G.M (Telecom) may please deliberate

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

In the last meeting it was decided that a letter may be written to NALCO to install their own RTU. In case they fail to do so, a case may be filed at OERC.

G.M (Telecom) 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.

As discussed in the last meeting the status of the transmission elements for which the data is not being displayed in the SLDC control room is as indicated below.

Sl. No	Name of transmission element	Action taken / present status
1	220/132 kV Auto –IV at Tarkera	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
3	Auto-I & II at 220kV Bhadrak Grid substation	Procurement of transducers is under process.
4	Chandaka Auto-IV	Procurement of transducers is under process.
5	Balimela # 7 & # 8	Transducers to be procured by OHPC.
6	132kV Kalabadia-Rairangpur	Data not displaying
Future Requirements		
7	Paradeep Auto-I (100MVA) & II (50MVA)	The S/S is going to be commissioned soon. Action may be taken to integrate the S/S.

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

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

In the last meeting G.M (Telecom) stated that at present 66 points have been integrated. For display of all data, 95 more points are required to be integrated.

Since Intra state ABT is under the verge of implementation, it is highly essential to monitor the real time drawal of Discoms.

G.M (Telecom) may please deliberate the action taken in this regard.

ITEM NO:8 IT Related Issues:

(A) MIS Report of EBC Data

Although the access to the EBC database has been provided to SLDC by IT, it is noticed that most of the times the access is being denied due to outage or other reasons. However it was requested to provide the required data in excel format to enable for preparation of various reports. This issue needs to be examined.

(B) Maintenance of SLDC Website

Hon'ble Commission in their Order dated 20.03.2009 passed in case No. 65/2008 on determination of ARR and levy of Annual Fee & Operating Charges for SLDC functions for FY 2009-10 directed to display the STOA transactions in the SLDC website. It was also decided in the ARR review meeting convened by Director (F) to identify one executive from

SLDC as the contact officer to update SLDC website on real time basis. It is once again suggested to identify an executive from SLDC as the web administrator for SLDC website in place of IT executive.

C.G.M (IT) may please deliberate.

ITEM NO:9 Members may raise issues if any:

ITEM NO:10 Date and Venue of the next (57th) PSOC meeting:

The members may decide the Venue and date of the 57th Power System Operational Co-ordination meeting.