

MINUTES OF DISCUSSION IN 62nd POWER SYSTEM OPERATI



STATE LOAD DESPATCH CENTER OFFICE OF THE Sr. GENERAL MANAGER (POWER SYSTEM) ORISSA POWER TRANSMISSION CORPORATION LTD. GRIDCO Colony, P.O.- Mancheswar Rly. Colony, Bhubaneswar-17, FAX-0674- 2748509

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Dated : 07.09.2010

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 rd 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 62nd Power System Operational Co-ordination meeting held on 25.08.10 at Power Training Centre, Chandaka, Bhubaneswar.

Sir,

Please find enclosed herewith the minutes of 62nd Power System Operational Co-ordination meeting held on 25.08.10 at Power Training Centre, Chandaka, Bhubaneswar. This is for your information and necessary action.

Yours faithfully;

Encl.: As above

Sd/-

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.

**MINUTES OF DISCUSSION IN 62nd POWER SYSTEM OPERATIONAL COORDINATION
MEETING HELD ON 25.08.2010 AT POWER TRAINING CENTRE, CHANDAKA,
BHUBANESWAR**

List of participants enclosed at Annexure-A

No representative from OPGC, HINDALCO, RSP, BHUSHAN, VEDANTA and Machhakund PH had attended the meeting.

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

Sr. G.M (PS) welcomed all the participants to the 62nd Power System Operational Coordination meeting.

GM (SLDC) took the agenda items for discussion.

The review proceeded as follows:

Item No.1-Confirmation of the minutes of 61st PSOC meeting held on 28.05.2010 at MTC, Kalyani Complex, Bhubaneswar.

Since Members have no comments on the minutes of 61st PSOC meeting, the minutes of the meeting was confirmed. Most of the Members suggested to forward the minutes by e-mail to avoid delay. SLDC stated that the minutes is being displayed in the SLDC website. However, the minutes will be forwarded by e-mail in future to the participating Members only.

Item No. 2- Review of Grid performance for the month of July 2010.

Item No. 2 (A) – Frequency

The one-minute instantaneous System frequency for the month of July'10 was reviewed. It was noticed that 84.33% of times the frequency remained in the band of 49.5Hz – 50.2Hz (IEGC band) in comparison to 90.63 % during the month June'10. The maximum and minimum System frequency during the month of July'10 was 50.69 Hz & 48.70Hz respectively. The monthly frequency profile, FVI & Standard Deviation for the month of July'10 was reviewed.

Item No. 2 (B) – Grid demand

Grid demand for the month of **June & July'10** was reviewed. The maximum System demand of **3058 MW** occurred on **28.06.10** at **20:00 Hrs** and minimum demand of **1774 MW** occurred on **03.06.10** at **15:00 Hrs**. Similarly during July'10, the maximum System demand of **3193 MW** occurred on **31.07.10** at **21:00 Hrs** and minimum demand of **1935 MW** occurred on **02.07.10** at **15:00 Hrs**. The hourly demand profile for the month of **July'10** was reviewed. It is observed that, the peak demand and energy drawal during the month of July' 10 have been increased by **135 MW** and **85.5 MU** respectively in comparison to **June'10**. The energy drawal has been increased by **151.7 MU** in comparison to **July'09**.

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

The Voltage profile at different 220 kV buses in OPTCL system during the month of July'10 was reviewed. It is noticed that **Jayanagar** 220 kV bus has experienced a maximum voltage of **253 kV** on 13.07.10 at 16:00 Hrs and minimum Voltage of **190 kV** has been experienced by **Bhadrak** 220 kV bus on 10.07.10 at 19:00 Hrs. The maximum voltage at Jaynagar was occurred due to under loading of long transmission lines & VAR flow from Jeypore PG end. The low voltage at Bhadrak grid occurred due to low voltage at Duburi & Balasore command area.

Item No. 2 (D) – Energy Generation / import during the month of July'10

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) – DISCOM Drawal during the month of July'10

The quantum of energy drawn by Discoms for the month of **July 2010** was reviewed. It is noticed that the drawal by **CESU, SOUTHCO & WESCO** for the month **July'10** has been increased in comparison to the ARR approved quantum where as the drawal by the **NESCO** for the month **July'10** was balanced with the ARR approved quantum.

Deliberation in the meeting

As stated by CESU that they have filed a review petition before OERC for enhancement of SMD & energy drawal.

Representative of ICCL stated that injection of ICCL & drawal by IMFA is to be mentioned separately. Drawal by CGP, NALCO is to be mentioned separately as stated by GRIDCO. It is decided to comply the above suggestion in future.

{Action:-SLDC}

Item No. 2 (F) – Major Events in the month of June & July 2010

13.06.10: 220 kV Balasore – Kuchei Ckt.II charged at 19:26 hrs., which was previously charged with 132 kV.

04.07.10:220 kV Narendrapur – Mendhasal Ckt.II charged at 12:18 hrs. and stood OK.

Item No. 2 (G) – UFR Operation in OPTCL System in the month of July'10

There was no UF Relay operation occurred during the month of **July'10**.

Representative of O&M stated that the revised list of feeders to be included under UFR scheme for relieve of double the quantum of loads at different stages has been circulated and action has been initiated to implement the same within a fortnight. SLDC informed that on receipt of intimation from O & M wing the same shall be communicated to ERLDC.

{Action:-CGM(O&M)}

Item No. 2 (H) – Important Grid incidents

Major grid incidents for the month of July'10 were reviewed.

Item No. 2 (I) – Major Transmission Lines / Elements Outage during the month of June & July'10.

Outage of major Transmission Lines / Elements during the month of June & July'10 was reviewed. It was noticed that most of the tripping are due to failure of LA & insulators.

Deliberation in the meeting

OPTCL stated that thermo-vision camera has been provided to the field units and massive measure for patrolling of the lines has been initiated. AGM, O&M, Choudwar has already been requested to instruct Paradeep sub-station for furnishing the tripping details immediately to SLDC in future.

Item No. 3 – Drawal of Machhakund Power.

Power drawal from Macchakund PH during the month of July'10 was reviewed.

Display of Machhakund generation:**Deliberations in the meeting**

OHPC stated that they have pursued the matter with APGENCO for installation of RTU at Machhkund PH. It is decided that Sr. G.M. (PS) shall write a letter in this regard to APGENCO.

OHPC stated that R & M proposal for renovation of Machhakund PH has been moved by OHPC. As decided in the meeting, OHPC has agreed to forward a copy the agreement relating to Machhakund PH to SLDC. As suggested by OHPC, representative from Machhakund PH may be invited for the next meeting.

{Action:-OHPC / SLDC}

Item No. 4 –Review of Outage Programme of State Generators / Transmission elements for the month of August & September'10 .

Outage Programme for State Generators for August & September-10 is as follows:

Sl.	Station	Unit	August'10		September'10	
1	Burla	-	NIL	NIL	NIL	NIL
2	Chiplima	-	NIL	NIL	NIL	NIL
3	Balimela	# 2	23.06.10 to continue	Thrust Bearing problem	23.06.10 to continue	Thrust Bearing problem
		#8	25.06.10 to continue	Vibration in the turbine	25.06.10 to continue	Vibration in the turbine
4	U.kolab	-	NIL	NIL	NIL	NIL
5	Rengali	# 1	18.08.08 to Continue	Generator fault	18.08.08 to Continue	Generator fault
6	U. Indravati	-	NIL	NIL	NIL	NIL
7	TTPS	#3	19.08.10 to 18.09.10	Annual Overhauling	19.08.10 to 18.09.10	Annual Overhauling
		#4	18.08.10 to continue	BFP problem	18.08.10 to continue	BFP problem

Deliberation in the meeting

Representative of OHPC stated that #2 & #8 of Balimela PH shall be made available by October'10. Representative of TTPS stated that # 3 & # 4, which are under shutdown for annual overhauling and R&M of switchyard, shall be available by 18th September'10

Item No. 5 – Generation Program for the month of August'10 & September'10.

Generation schedule for the month of August'10 & September'10 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.07.10	Reservoir Level as on 01.08.10	MDDL	High Flood Reservoir Level
	August'10	Sept'10				
HPS, Burla	200+50	Not received from OHPC	595.62 ft	611.33 ft	590 ft.	630 ft.
U.Indravati	150		625.40mtr	629.37 mtr	625mtr	642 mtr
Balimela	100		1445.30ft	1466.50 ft	1440 ft.	1516 ft.
U.Kolab	50		844.69mtr	849.43 mtr	844 mtr	858 mtr.
Rengali	20		109.75mtr	110.88 mtr	109.2mtr	123.5 mtr.
MKD (O/D)	30		2683.10ft	2711.40 ft	2685 ft.	2750 ft.
TOTAL	600					

Deliberation in the meeting

OHPC stated that the average generation programme from Rengali PH has been revised from 50 MW to 20 MW.

Item No. 6 Day ahead Generation Schedule for Hydro stations

It was decided in the meeting convened by the Member (Technical), OERC that all the hydro stations of OHPC shall forward their respective day ahead generation schedule, indicating Peak, Minimum and Average generation for the day. The above schedule for Rengali PH was received for few days. At present none of the hydro stations are furnishing their day ahead generation schedule as decided in the above meeting.

Deliberation in the meeting

SLDC requested OHPC to collect the data from different power stations and a consolidated generation availability report may be furnished to SLDC on day-ahead basis in the format decided by OERC. OHPC stated that communication to Balimela is not available most of the time. Sr. G.M. (PS) stressed on implementing satellite communication by OHPC with the powerhouses. However, all the Generating stations may be instructed to send the data to SLDC regularly.

{Action:-OHPC}

Item No.7 Operation of Auto Re-close Facility on Transmission Line.

It was decided in the 7th Protection sub – Committee Meeting of ERPC held on 12.08.10 at Kolkata that, the operation of single phase auto re-closure is extremely essential to prevent undesired tripping of lines due to single phase to ground transient fault, the availability of single

phase auto re-closure and keeping them in service is a must for important intra-state / CTU / Inter-regional transmission lines. The required information in case of non- operation of auto re-closure is to be furnished to ERLDC.

Deliberation in the meeting

Representative of OPTCL stated that there is no provision of single phase tripping facility available at present. It was decided to include all 400kV lines and all 220kV inter-state tie lines in the first phase under single-phase auto reclosing scheme.

{Action:-O&M}

Item No. 8 Analog Triggering of Disturbance Recorders.

It was decided in the 7th Protection sub-Committee Meeting of ERPC held on 12.08.10 at Kolkata that, at many substations DR outputs from Numerical relays as well as Disturbance Recorders are not available / not functioning and are not time synchronized, causing difficulty in analyzing tripping events and disturbances, IEGC clause 4.6.3 mandates keeping all the recording instruments time synchronized and in working condition and furnishing of the recorded data.

An action plan for implementation of the above shall be furnished to ERLDC.

Deliberation in the meeting

Representative of O&M stated that action is being taken for procurement of Disturbance Recorders for 400kV & 220kV major sub-stations. Sr. G.M. (PS) suggested to furnish a list of Disturbance Recorder installed and their present status to SLDC for onward transmission to ERLDC.

{Action:-O&M}

Item No. 9 Demand Management Measures.

It was decided in the 53rd OCC Meeting of ERPC held on 13.08.10 at Kolkata that, as per 5.4.2(e) of Demand Management clause of IEGC, to maintain the system frequency within permissible band all constituents are identify following four categories of interruptible loads

- (a) Loads for schedule power cuts / load shedding
- (b) Loads for unscheduled load shedding
- (c) Loads for UFR actuated shedding
- (d) Loads for SPS (Special Protection Scheme) actuated shedding.

Since ER at present does not have any SPS actuated load-shedding scheme, constituents are requested to furnish the first three categories of identified load.

Deliberation in the meeting

It was decided that the DISCOMs shall identify the feeders and the quantum of load to be shed under the first three categories and forward the same to O&M for preparing a consolidated scheme.

{Action:-DISCOMs}

Item No. 10 Relay Co-ordination at Budhipadar and Jayanagar command area.

It was noticed from the tripping incidences during the month of May & June 2010 that, the relays at Jayanagar & Budhipadar command area are not properly coordinated. However the above issue had already been discussed in the 2nd Protection Sub-Committee Meeting of OPTCL held on 28.05.10 and it was decided to take up the relay co-ordination work in the above command area.

Deliberation in the meeting

The relay co-ordination work in the above command area has already been taken up as intimated by O & M.

NALCO representative suggested to take up relay co-ordination of 220kV NALCO-Meramundali feeders – I & II at Meramundali. OPTCL has agreed to the proposal of NALCO.

{Action:-O&M}

Item No. 10 (a) –Status of New lines funded by WB /ADB / Deposit work / OPTCL’s own funding

Deliberation in the meeting

The status of the new lines & sub-stations as deliberated by Director (Engg.) are as tabled

Details of project	Status
132 kV Burla-Sambalpur SC line LILO at Katapali	The work is to be completed by October’10 after commissioning of 2 nd Autotransformer at Sadeipali.

Director (Engg.), OPTCL stated that at present Baragarh grid is being fed from Burla PH through one ckt of Burla-Chipilima tie connected to the 132 kV reserve bus of Katapali S/S.

Item No. 11 Issues related to RTU problem and speech connectivity problem under central sector S/S and SLDC.

In the 53rd OCC meeting of ERPC held on 13.08.2010 at Kolkata, GM, ERLDC, stated that the EMS is the major and costliest part of SCADA system. Without uninterrupted data acquisition, EMS package will not function properly. To ensure function of RTUs and data acquisition from each RTU, constituents should avail the services of AREVA personals deployed at SLDCs. The constituents also requested to utilize the EMS package of SCADA system.

It was decided to name one person from each RTU location and one executive from SLDC to co-ordinate with ERLDC regarding the above issue. The status of RTU shall be intimated to ERLDC through the SLDC coordinator everyday.

GM (Telecom), OPTCL may intimate the names of such officers, one from each RTU location to Sr. G.M (PS). The SCADA review committee constituted in the last meeting may be made functional to review all matters regarding SCADA. GM (GO) shall function as the co-coordinator from SLDC on SCADA related issues. The decisions taken in the SCADA meeting

of ERLDC and all other matters relating to SCADA system may be intimated to Sr. GM (PS) regularly.

Deliberation in the meeting

GM (Telcom) stated that they have already intimated the name of officers from each RTU location to SLDC. He has agreed to provide the status of RTU everyday to G.M. (G.O.) for onward transmission to ERLDC.

{Action:- SLDC}

Item No. 12 Testing of DG set at SLDC and Sub-LDCs

As decided in the 53rd OCC meeting of ERPC held at Kolkata on 13.08.2010, all the DG sets at SLDC are to be tested on 3rd Wednesday of each month and the status shall be forwarded to ERLDC.

Deliberation in the meeting

G.M. (Telecom.) agreed to the above decision.

Item No. –13 Communication issues

Communication issues

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

In the last meeting it was decided that NALCO shall be given 7 days notice for installation of RTU. In case they fail to do so, the matter shall be referred to OERC.

Deliberation in the meeting

Representative of NALCO stated that, the tender for procurement of RTU is on evaluation stage. It will take another 6 months time to complete the installation process.

(II) Installation of RTU and associated equipments for RSP.

In the last meeting it was stated by RSP that they will take 3 months for completion of all works. The present status may please be intimated.

Deliberation in the meeting

G.M. (Telecom) stated that, the contract for the above work has already been awarded by RSP. It will take another 3 months time to complete the installation process.

(III)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 Bhushan Steel Ltd, Meramunduli	All equipments commissioned. Data is not displaying due to problem in digital system. Breaker status has yet to be displayed.
2	M/S Hind Metals, Meramunduli	Arrival of ABB engineers to rectify the problem is awaited.
3	M/s Bhushan Power & Steel Ltd, Jharsuguda	Order for modification has been placed with Gfenu.
4	M/S Emami Paper Mills, Balasore	Already commissioned, but still under observation due to erratic display.

Deliberation in the meeting

G.M. (Telecom) stated that communication problem from M/s Bhushan Steel Ltd, Meramunduli will be rectified shortly. There is no change in the status of other CGPs mentioned above.

- (IV) At present 22 Nos. of CGPs have been connected with OPTCL system at 132/220 kV Voltage levels. Out of them only a 7 Nos have complied SCADA provision for real time data display, due to which, a substantial quantum of power injection / drawal could not be monitored on real time.

Deliberation in the meeting

G.M. (Telecom) stated that at present 14 nos. of CGPs have been integrated with SCADA system, out of which data from 7 nos of CGPs are displaying correctly. Action is being taken for integration of the remaining CGPs.

[Action- G.M (Telecom)]

Item No. –14 Operational Constraints:**Over loading of 132 kV Meramundali- Dhenkanal line**

It is noticed that 132kV Meramundali-Dhenkanal ckt is getting over loaded frequently. The problem may further aggravate due to drawl of more power by Nuapatna Grid (by up gradation). It may be examined for making 132 kV Aarati-Meramundali line LILO at Nuapatna.

Deliberation in the meeting

G.M. (TP & C) stated that the above proposal has already been approved by the BOD, OPTCL and necessary action will be taken soon. Director (Engg.) stated that it is proposed to construct a new Sub-station at Hindol, which will relieve overloading of the feeder further.

(II) Evacuation of power from Sterilite IPP

On synchronization of Sterilite IPP(Unit-II), 550 MW of power is required to be evacuated from the above IPP, which would cause evacuation problem at Budhipadar command area. The second evacuation link may be thought of before COD of the above Unit.

Deliberation in the meeting

Director (Engg.) stated that the second Auto at Sadeipali (Bolangir) is going to be commissioned soon. Further M/s. Bhusan Steel & Power Ltd., Budhipadar has been allowed to draw more power, which will provide a cushion to the evacuation constraint at Budhipadar. It is already proposed for construction of 400 kV Ib-Meramundali DC line, which will be extended up to Lapanga pooling station (proposed).

Sr. G.M (PS) stated that it may be examined to keep Ib units and 220 kV Korba ckts with some load feeders in one bus, by bus splitting arrangement. This may help for providing more

cushions to the evacuation quantum. A scheme is to be prepared by SLDC and forwarded to CGM (O&M) for necessary action.

{Action:- SLDC}

(III) Stringing of earth wire in 220 kV Theruvali-Bhanjanagar line

In the last meeting it was stated by CGM (O&M), OPTCL that, tendering process for the above work had been completed.

Deliberation in the meeting

A.G.M. (O&M) stated that inspection for the earth conductor has already been over. The materials will be delivered soon.

Item No. 15- Mock Black Start exercises for Indravait PH.

It was decided in the 53rd OCC meeting of ERPC that mock black start exercise for Indravati PH by availing power from its DG set to be carried out during 2nd week of September. Accordingly a scheme is under preparation by SLDC. After getting approval from ERLDC the same shall be forwarded to OHPC. OHPC may intimate its readiness for the above exercise.

Deliberation in the meeting

OHPC has agreed to conduct the Black-start exercise as per the schedule proposed.

Item No. 16- Execution of PPA with CGPs

It is noticed that Gridco has not executed PPA's with some of the major CGPs for purchase of power although day ahead scheduling is being done by SLDC for the CGPs. The PPAs for some of the CGPs have already been expired. It is requested to explore for execution / renewal of PPAs with all the CGPs from whom Gridco intend to purchase power. The above arrangement is required to examine the existing contracts for allowing / disallowing open access to the CGPs.

Deliberation in the meeting

Gridco representative stated that the CGPs are not coming up for signing of agreement. A petition has been filed before the OERC for reducing of CGP power cost. The hearing is scheduled on 28.08.2010. After the hearing the PPA with all the CGPs will be revised. However, Gridco shall intimate the mode of operation of CGPs soon.

{Action:- GRIDCO}

Item No. 17 Compliance of drawal schedule by Discoms

It is noticed that the Discoms are not complying their respective drawal schedule very often. Due to the above non-compliance SLDC is forced to draw power from the Grid even at adverse frequency conditions. All the Discoms are requested to comply their respective

drawal schedule. The non compliance of directions of SLDC are being intimated to ERPC as per provision under IEGC clause 6.4.7

Deliberation in the meeting

Discoms stated that they are taking necessary steps for compliance of the drawal schedule.

Item No. 18 Other Issues

(I) UI charges and other matters relating to TTPS.

Deliberation in the meeting

Gridco stated that TTPS was deducting the UI charges from the LC without the approval of Gridco. SLDC stated that SLDC has started preparing the UI charges payable / receivable by TTPS since April 2010. Accordingly TTPS shall pay / receive the UI charges from April 2010 onwards.

TTPS representative stated that they are not aware of the commercial matters.

SLDC representative stated that TTPS is not paying the SLDC charges since April 2010.

TTPS representative has assured to pay all the dues by 31st October 2010.

{Action:- TTPS}

(II) Time synchronization of Energy Meters of NALCO at Angul & Damanjodi

Gridco stated that the energy meters installed at Angul and Damanjodi are not time synchronized.

NALCO stated that they will examine the scope for time synchronization of the energy meters.

It was decided that Gridco and NALCO shall settle the issue of time synchronization of energy meters of NALCO bilaterally.

{Action:- GRIDCO / NALCO}

(III) Energy Accounting meters for OHPC

OHPC stated that Technical specification of Energy Accounting meters has been sent to OPTCL for examination, which is yet to be received by OHPC.

OPTCL assured to expedite the same and intimate to OHPC.

{Action:- O&M}

Item No. 19: Date and venue of the 63rd PSOC meeting will be intimated.

The meeting was ended with vote of thanks conveyed by Asst to Sr. G.M (PS) to all the Members.

Sr. G.M. (Power System)

MEMBERS PRESENT

SL.NO.	NAME	DESIGNATION
1	Er K.K. Nath	Director (Engineering), OPTCL
2	Er. P.K. Behura	Sr. G.M.(PS), SLDC, OPTCL
3	Er. B.N. Mahapatra	Technical Consultant, SLDC
4	Er. Ranjit Dash	G.M.(T&D), OPTCL
5	Er. N.R. Mandhata	Sr. G.M.(CP), OPTCL
6	Er. B.R. Mishra	G.M., SLDC
7	Er. S.K. Das	G.M., SLDC
8	Er. Jitendra Bastia	D.G.M., SLDC
9	Er. P. K. Mishra	A.G.M., SLDC
10	Er. J. P. Mohanty	Manager, SLDC
11	Er. P. K. Das	Manager, SLDC
12	Er. A. Sahoo	A.M., SLDC
13	Er. H. P. Mohapatra	Manager, OHPC
14	Er. L. N. Padhy	Manager, OHPC
15	Er. B. P. Gantayat	D.M., OHPC
16	Er. S. K. Choudhury	AGM (PP), GRIDCO
17	Er. Susmita. Mohanty	Dy. Manager (PP), GRIDCO
18	Er. A. K. Sarkar	G.M. (Const.), OPTCL
19	Er. P. C. Tripathy	A.G.M. (O&M), OPTCL
20	Er. R. K. Mohapatra	G.M., Telecom, OPTCL
21	Er. A.C. Patra	D.G.M., Telecom, OPTCL
22	Er. A. K. Singh	Sr. Manager.(OS), TTPS, NTPC
23	Er. R. V. Pattanaik	Sr. Manager.(OS), TTPS, NTPC
24	Er. S. K. Dash	A.G.M., NESCO
25	Er. P. K. Sahoo	S.E. (R &A), WESCO
26	Er. N. Nayak	DM, CESU
27	Er. D. K. Rout	DM, CESU
28	Er. S. Mohanty	JM (ABT), SOUTHCO
29	Er. P. Pradhan	Manager, JSL
30	Er. B. B. Nayak	D.G.M., NALCO
31	Er. K. C. Jena	D.M., NALCO
32	Er. Dibakar Behera	D.G.M., IMFA, Choudwar