

**MINUTES OF DISCUSSION IN 66th POWER SYSTEM OPERATIONAL COORDINATION
MEETING HELD ON 30.05.2012 AT POWER TRAINING CENTRE, CHANDAKA,
BHUBANESWAR**

List of participants enclosed at Annexure-A

The meeting was chaired by Director (Commercial), GRIDCO.

Sr. G.M (PS) welcomed all the participants to the 66th Power System Operational Coordination meeting.

General Manager (GO) took the agenda items for discussion.

The review proceeded as follows:

Item No.1-Confirmation of the minutes of 65th PSOC meeting held on 30.03.12 at PTC, Chandaka, Bhubaneswar.

Since Members have no comments on the minutes of 65th PSOC meeting, the minutes of the meeting was confirmed.

Item No. 2- Review of Grid performance for the month of March & April 2012.

Item No. 2 (A) – Frequency

The one-minute instantaneous System frequency for the month of April'2012 was reviewed. It was noticed that 93.51% of times the frequency remained in the band of 49.50 Hz–50.20 Hz (IEGC band) in comparison to 95.31 % during the month March'12. The maximum and minimum System frequency during the month of April'12 was 50.66 Hz & 49.08 Hz respectively. The monthly frequency profile & Standard Deviation for the month of April'12 was reviewed. The frequency profile during the month has deteriorated comparing to the previous month.

Item No. 2 (B) – Grid demand

Grid demand for the month of **April'12** was reviewed. The maximum System demand of **3167 MW** occurred on **21.04.12** at **22:00 Hrs** and minimum demand of **1426 MW** occurred on **15.04.12** at **19:00 Hrs**. The hourly demand profile for the month of **April'12** was reviewed.

It is observed that, the peak demand during the month of **April' 12** is almost equal to that of **March'12**. The maximum energy consumption has increased by **2.47 MU** in comparison to **March'12** and decreased by **1.92 MU** in comparison with **April'11**.

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 **April'12** was reviewed. It is noticed that **Jayanagar** 220 kV bus has experienced a maximum voltage of **253 kV** on 02.04.12 at 06:00 Hrs and minimum Voltage of **190 kV** has been experienced at **Chandaka** 220 kV bus on 27.04.12 at 10:00 Hrs. The maximum voltage at Jaynagar was occurred due to under loading of long transmission lines & VAR flow from Jeypore PG end.

Item No. 2 (D) – Energy Generation / import during the month of April'12 was reviewed

The total quantum of energy drawn from all the generation sources including Central Sector Share and CGP support during the month of April, 2012 was 1936.103MU.

Item No. 2 (E) – DISCOM Drawal during the month of April'12

The quantum of energy drawn by Discoms for the month of **April'12** was reviewed.

Deliberation in the meeting

It is noticed that **WESCO** had overdrawn 44.557 MU and **CESU** have under drawn 16.218 MU of energy during the month. **NESCO** & **SOUTHCO** have overdrawn marginal quantum of energy during the month. As per earlier discussion the discoms are yet to furnish their monthly energy drawal forecast to SLDC / Gridco for monthly generation planning.

{Action:-All Discoms}

Item No. 2 (F) – Major Events in the month of March & April 2012.

Major events in OPTCL System during the month of March and April 2012 was reviewed the following are the major events during the months

02.03.12: One 220/33kV, 40MVA transformer idle charged replacing 20MVA Trf-I at 220/33 kV Barkote Grid sub-station at 22:57 Hrs and loaded at 19:25hrs on 04.03.2012.

13.03.12: 220kV Paradeep-ESSAR Ckt.-I charged at 19:32hrs and Ckt.-II charged at 19:36 hrs.

21.03.12: 3rd 132/33kV transformer of capacity 20MVA commissioned at Kesinga Grid sub-station.

23.03.12: 3rd CGP unit (25MW) of M/s VISA Steel LTD was synchronized with OPTCL system at 12:34Hrs.

29.03.12: # 4 of Sterlite Energy Limited synchronized.

07.04.12: 3rd 132/33kV transformer of capacity 20MVA commissioned at Aska Grid sub-station and loaded at 16:46hrs on 10.04.12..

Item No. 2 (G) - UFR Operation in OPTCL System in the month of April'12

There was no UF Relay operation occurred during the month of April'12, since the frequency did not fall beyond 48.5 Hz during the month.

Item No. 2 (H) – Important Grid incidents

Deliberation in the meeting

There was no major Grid incidents occurred during the month of April, 2012.

Item No. 2 (I) Outage of Major Transmission Lines / Elements during the month of April'12.

Deliberation in the meeting

Outage of Major Transmission Lines / Elements during the month of April'12 for more than 10 hours was reviewed. It is noticed that most of the outages are due to snapping of conductor / jumpers and bursting of LA. The restoration of 220kV Theruvali-Upper Kolab ckt. got abnormally delayed due to non-availability of clearance from Railway authority.

Sr. G.M. (O&M) was requested to take necessary action for strengthening of jumpers and replacement of aged lightening arrestors.

Item No. 3 – Drawal of Machhakund Power.

The hourly drawal of Machhakund power during the month of April'12 was reviewed. The average drawal from Machhkund PH during the month of April'12 was 15 MW.

Deliberation in the meeting;

Due to non-availability of required infrastructure for providing matching load, the State's share from Machhakund PH could not be availed. Breakers of Jayanagar S/S are old and giving trouble on frequent operation. O&M representative stated that, 3 nos of old breakers at Jayanagar have already been replaced by new breakers. SLDC stated that the breaker provided by OPTCL for replacement of the damaged breaker in the traction feeder emanating from Machhakund PH is yet to be commissioned. It was decided that OHPC has to coordinate with Machhakund authority for the breaker commissioning.

In the last meeting OHPC representative stated that RTU at Machhkund has already been installed during the month of August, 2011. G.M. (Telecom) was requested to take necessary action for integration of the same to display Machhkund generation and drawal data at SLDC Control Room in co-ordination with OHPC.

SLDC stated that the Machhakund coordination committee meeting need to be revived soon to resolve various issues relating Machhakund PH. OHPC shall take necessary steps of convening the meeting as early as possible.

{Action:-G.M.(Telecom), OHPC}

Item No.4- Review of Outage Programme of State Generators for the month of May & June'12.

Tentative Outage programme for State Generators for the month of **May & June'12** are as follows:

Sl.	Station	Unit	May'12		June'12	
1	Burla	# 2	20.11.11 to Continue	Leakage from runner envelope	20.11.11 to Continue	Leakage from runner envelope
		# 3	-	-	01.06.12 to 16.06.12	Annual maintenance
		# 4	18.04.12 to 16.05.12	Annual maintenance	18.06.12 to 30.06.12	Trash rack replacement
2	Chiplima	# 3	23.12.11 to 12.05.12	TGB problem	-	-
		#1 &2	15.05.12 to 14.06.12	Closure of power channel and Annual maintenance	15.05.12 to 14.06.12	Closure of power channel and Annual maintenance
3	Balimela	# 4	27.07.11 to Continue	Thrust bearing problem.	27.07.11 to Continue	Thrust bearing problem.
		# 8	18.04.12 to 29.05.12	Annual maintenance	-	-
4	U.kolab	# 1	02.05.12 to 16.05.12	Annual maintenance	16.06.12 to 30.06.12	Annual maintenance
5	Rengali	# 1	18.08.08 to 31.05.12	R & M	-	-
		# 5	-	-	01.06.12 to 30.06.12	Annual maintenance
6	U. Indravati	# 2	02.05.12 to 24.05.12	Annual maintenance	-	-
		# 4	-	-	01.06.12 to 25.06.12	Annual maintenance

Deliberation in the meeting.

OHPC representative stated that # 2 of Burla PH is likely to be ready by the end of June 2012. The maintenance programme of Burla # 4 is likely to be revised due to monsoon arrival.

SLDC representative stated that planning closure of Burla power channel should have been intimated earlier, so that Burla generation could have been further optimized.

ITEM NO: 5 *Generation Program for the month of May'12 & June'12.*

Generation schedule for the month of **May'12 & June'12** furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.04.12	Reservoir Level as on 01.05.12	MDDL	High Flood Reservoir Level
	May'12	June'12				
HPS, Burla	25+0	40+0	612.15 ft	606.43 ft	590 ft.	630 ft.
Balimela	5	0	1447.70 ft	1441.50 ft	1440 ft.	1516 ft.
Rengali	10	5	116.56 mtr	113.95mtr	109.2mtr	123.5 mtr.
U.Kolab	40	30	846.90 mtr	846.25 mtr	844 mtr	858 mtr.
U.Indravati	170	180	629.40 mtr	628.76 mtr	625mtr	642 mtr
MKD (O/D)	30	30	2742.70 ft	2728.10 ft	2685 ft.	2750 ft.
TOTAL	280	285				

Generation programme for 2nd fortnight of June will be as follows.

Burla: 40 MW
 Chipilima: 30 MW
 Balimela: 0 MW
 Rengali 5 MW
 U.Kolab: 20 MW
 U.Indravati: 155 MW
 Mkd(O/D): 30 MW

Deliberation in the meeting.

Generation scheduled forwarded by OHPC for the month of June, 2012 was reviewed. OHPC scheduled 285 and 280 MW power generation from all of its Stations including Machhkund share during the 1st and 2nd fortnight of June, 2012 respectively.

SLDC stated that Balimela PH is not complying the direction of SLDC to maintain their generation schedule stating that, it is not possible to run the generator due to low reservoir level. In that case, OHPC should not furnish the injection schedule.

{Action:-OHPC}

Item No. 6 – NALCO issues

It was decided in the last meeting that NALCO shall take up the matter of additional connectivity with Rengali separately with O&M.

Deliberation in the meeting

NALCO has agreed to convene a meeting between Director (Engineering), Director (Commercial), CGM (O&M) and SLDC for discussion on the issue in next week.

Further, NALCO stated that there is no time synchronization between the energy meters at Angul and Damanjodi end. Director (Commercial) agreed to take necessary action for time synchronization.

Item No. 7 Compliance of the decisions of ERPC meeting

(a) Issues raised in the 73rd OCC meeting of ERPC ERPC, Kolkata

In the 73rd OCC meeting of ERPC held at Kolkata on 18.05.2012, it was decided to revise the UFR setting of Eastern region at par with the Western region as indicated in the table. CGM (O&M) was requested to adopt the new UFR setting.

Stage	Changed Setting	Earlier Setting
Stage-I	48.8 Hz	48.5 Hz
Stage-II	48.6 Hz	48.2 Hz
Stage-III	48.2 Hz	48.0 Hz

{Action:-CGM (O&M)}

(b) Issues raised in 12th Protection sub-Committee of ERPC held on 26.03.12.

ZONE – 3 SETTINGS OF TRANSMISSION LINE

For some of the important lines Zone – 3 settings have to be reviewed so that this would not conflict with emergency loading of the lines. The emergency load capability would give the Operator sufficient time to take corrective action, but if such loading can lead to load encroachment of Distance Relays in Zone – 3, the emergency situation would worsen and may lead to cascading of outages. Further, power swing blocking philosophy also needs to be revisited in the light of recent grid disturbances. Constituents were requested to submit protection settings of transmission elements of important grid elements and the sample format prepared by ERLDC was given for submission.

The sample format has been forwarded to C.G.M. (O&M).

C.G.M.(O&M) may please take necessary action.

Islanding scheme of IbTPS

The islanding scheme of IbTPS was discussed in the 12th Protection Sub-Committee meeting of ERPC. The abstracts of discussion are as follows.

- *On the request of OPGC, the islanding scheme of IBTPS has been agreed mutually by OPTCL and OPGC in a meeting held on 30-09-11.*
- *The scheme and feeder wise bus arrangement was agreed upon as :*
 - i) *For 220kV Bus I- The feeder 1,2,3 & 4 of IB TPS , ATR-I,ATR-II, Katapalli-I & II*
 - ii) *For 220kV Bus-II- Vedanta- I & II, Korba- II & III, Tarkera-I & II, Raigarh, SPS, Bhusan- I & II with bus coupler being in closed condition.*

It was decided that the above islanding scheme for IB TPS may be implemented and continued.

Deliberation in the meeting

SLDC stated that the proposal has been accepted by ERLDC, the same may be implemented. C.G.M. (O&M) may take necessary action for implementation of the scheme and report compliance to ERLDC.

OPGC stated that the relay specification is yet to be finalized by OPTCL. It was decided that CGM (O&M) may arrange a meeting between OPGC, O&M & SLDC and the scheme may be presented again for taking decision.

{Action:-CGM (O&M)}

(c) Issues raised in 20th Commercial sub-Committee meeting of ERPC held on 27.03.12.

UPDATION OF CT/PT RATIO

The meter details along with the CT/PT ratio has been uploaded at ERLDC website (www.erldc.org). Constituents are requested to verify their respective CT/PT ratio and point out to ERLDC / ERPC in case of any discrepancy.

In the last meeting, it was decided that C.G.M. (O&M) may report the discrepancy if any to ERLDC / ERPC.

Deliberation in the meeting

Representative of O&M wing stated that the said data has already been sent to SLDC / ERLDC.

ERRONEOUS READINGS OF SEM AT RENGALI SY END OF 220 KV RENGALI - RENGALI LINE -I

As per the SEM data received from Rengali (GRIDCO) S/S, It is observed that meter (NP-5984-A) installed at Rengali (GRIDCO) end of 220 KV Rengali (GRIDCO) – Rengali (PG) line-I is showing erroneous readings since 09.04.2009. Several telephonic intimation regarding above has already been done with the officials of Rengali (PG) as well as Rengali (GRIDCO) S/S. Letter to this effect was also issued to GRIDCO dated 19.06.09. Again reminder letter was issued to the above on 21.12.2011. Presently Energy accounting of GRIDCO is done considering main meter i.e. Rengali (PG) end and is dependent on Rengali (PG) end data.

It was decided in the last meeting that C.G.M. (O&M) shall take action for replacement of the defective meter early and communicates to ERLDC / ERPC.

Deliberation in the meeting

Representative of O&M wing stated that the energy meter to be installed at Rengali switchyard has already been released.

ITEM NO:8 Commissioning of 220kV bus at Rengali Switchyard Sub-station.

While conducting the mock black start exercise of Rengali PH on 09.02.2012, it was noticed that the isolators of different feeders connected to 220kV main bus-II of Rengali Switchyard sub-station are not functioning properly. Due to which, the island could not be formed by providing matching load to Rengali unit. It was learnt that the above bus is yet to be commissioned.

Deliberation in the meeting

Director (Engg.), OPTCL wanted to know the present status of 220 kV main bus-II at Rengali S/Y. Representative of O&M wing stated that commissioning of breaker work is in progress. The bus is scheduled to be made operational by 10th June, 2012.

{Action:-CGM (O&M)}

ITEM NO:9 Analog Triggering of Disturbance Recorders.

It was decided in the last meeting that, the list of S/Ss where Disturbance Recorders are installed along with their present status shall be forwarded to Sr. G.M (PS) by O&M.

The above information is yet to be received.

Deliberation in the meeting

Representative of O&M wing stated that the details of disturbance Recorder available in the OPTCL network along with their present status has already been sent to SLDC.

{Action:-SLDC}

ITEM NO:10 Status of New Lines funded by WB/ADB / Deposit work / OPTCL's own funding

Sl. No	Details of project	Status as on last meeting
1	132 kV Burla - Sambalpur SC line LILO at Katapali	The work was scheduled to be completed by 15 th June 2011.

Deliberation in the meeting

To be discussed in the next meeting.

ITEM NO:11 Communication issues

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

In the last meeting it was stated by Telecom wing that, installation of RTU at RSP will be completed by May 2012. Director (Engg) suggested to go for optical fibre in place of cable.

Deliberation in the meeting

RSP stated that laying of optical fibre has already been completed. Installation of RTU will be done soon after arrival of AREVA Engineer.

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

The real time data from the following major CGPs / Industry are yet to be displayed at SLDC control room.

1. M/s Aryan Ispat Ltd.
2. M/s FACOR Power Limited
3. M/s Orissa Sponge Iron Limited
4. M/s Pattaniak Steels & Alloys Ltd
5. M/s Rathi Steels & Power Limited
6. M/s Shree Ganesh Metalicks Limited
7. M/s Tata Sponge & Iron Limited
8. M/s Yazdani Steel & Power Limited
9. M/s Hind Metals, Meramunduli
10. M/s Emami Paper Mills, Balasore
11. M/s Sterlite Energy Limited, Jharsuguda
12. M/s Vedanta Aluminium Limited, Lanjigarh
13. M/s Shalivahan Green Energy Limited
14. M/s Bhusan Power & Steels, Jharsuguda
15. M/s HINDALCO, Hirakud
16. M/s IFFCO, Paradeep
17. M/s IMFA, Choudwar
18. M/s Maheshwary Ispat Limited
19. M/s NALCO, Angul
20. M/s MSP Mettalicks
21. M/s Narbheram
22. M/s NINL, Duburi
23. M/s Shyam Mettalicks

Deliberation in the meeting

SLDC stated that, real time injection/drawal data from many CGP/IPPs are not being shown at SLDC, due to which a substantial quantum of generation/ drawal remains unmonitored. This issue has also been discussed in past meetings. The status of communication from those CGP/IPPs may be ascertained and necessary action may be taken for establishment of data communication facility from the CGP/IPPs. G.M. (Telecom.) stated that integration of M/s Emami Paper Mills, M/s BPSL, Jharsuguda has already been done.

NALCO representative stated that they have already awarded the tender for commissioning of RTU at their end. The work is expected to be completed by September 2012.

(III) Displaying of Aarati IPP data

The injection data of Aarati Steel (IPP) is not available at SLDC.

Deliberation in the meeting

In the last meeting GM (Telcom) stated that RTU has already been installed at Aarti end and integrated in the system. At present the combined injection of both the CGP and IPP is being displayed at SLDC control room. After integration of IPP to RTU, both the data will be displayed separately. GM (Telcom) shall take necessary action in this regard. Sr. G.M. (PS) stated that in the present scenario of power export by Aarti IPP through Inter State Open Access transaction, it is required to monitor the real time injection of the IPP.

{Action:-GM(Telcom)}

(IV) Communication Facility to major Grid sub-stations and power stations.

Due to non-functioning of communication system to different grid sub-stations as well as power stations, real time operation becomes difficult. Telecommunication wing of OPTCL should keep a vigilant watch on the PUNCOM service. In the last meeting G.M (Telcom) assured to intimate PUMCOM for providing FAX facility in the PUNCOM phone. It was also decided to move a proposal for the above to Director(Engg) It was also decided to provide mobile sets to all hydro stations by OHPC. le phones.

Deliberation in the meeting

G.M. (Telecom.) / OHPC are requested to take necessary action.

{Action:-GM(Telcom) / OHPC}

ITEM NO:12 Operational Constraints.

Stringing of earth wire in 220 kV Theruvali-Bhanjanagar line

In the last meeting Sr. G.M (O&M) stated that the work is in progress and will be completed before monsoon.

Deliberation in the meeting

To be discussed in the next meeting.

ITEM NO:13 Mock Black Start exercise of OHPC stations.

It was decided in the 73rd OCC meeting of ERPC to conduct mock black start exercise of Balimela PH as the DG set has already commissioned. The status of commissioning of DG sets in other hydro stations to be intimated.

Deliberation in the meeting

OHPC stated that the proposed mock Black Start exercise can be conducted any time after receiving inflow by the reservoir.

ITEM NO:14 Commercial Implementation of Intra State ABT w.e.f. 01.04.2012

As per the order dated 07.02.2012 of OERC passed in Case no. 02/2012 arising out of suo-motu proceeding in Case No. 50 / 2010, Intra State ABT shall be implemented commercially with effect from 01.04.2012. The DISCOMs are requested to comply with their respective drawal schedule issued by SLDC strictly specially during unfavourable frequency conditions to avoid payment of UI charges and additional UI charges.

Deliberation in the meeting

SLDC deliberated the new operational frequency band as notified by the CERC UI Regulation and the financial impact for over-drawal during low frequency conditions. All the DISCOMs are needed to comply to their respective drawal schedule,

{Action:-DISCOMs}

ITEM NO:15 Other issues raised by Members

I. RSP

Representative of RSP stated that there was frequent interruption of power supply to their plant due to failure of CT and other equipments at Tarkera Grid sub-station. Such failure have experienced twice during last week. OPTCL should take necessary action for replacement of old CTs at Tarkera Grid to avoid interruption in future.

Deliberation in the meeting

O&M was requested to take action for replacement of old CTs at Tarkera Grid S/s.

{Action:-CGM(O&M)}

II. TTPS

TTPS has raised the issue of frequent tripping of 132 kV and 220 kV lines connected to their switchyard. They have already discussed the issue with CGM (O&M). Such frequent trapping results the reliability of the generating station.

Deliberation in the meeting

O&M was requested to review the matter and take necessary action to avoid frequent tripping of feeders connected to TTPS.

{Action:-CGM(O&M)}

III. JSPL

Representative of JSPL stated that Gridco is not maintaining transparency in the billing procedure for the energy injected by CGPs. Further they are being penalized due to non injection during tripping of the transmission elements of OPTCL system.

Deliberation in the meeting

Director (Commercial), Gridco assured to look in to the matter.

{Action:-Sr. GM (PP)}

IV. WESCO

Representative of WESCO stated that some of the Grid substations such as Rourkela, Bolangir and Bargarh are not responding to their request for intimating the 33 kV feeder drawal data over telephone.

Deliberation in the meeting

Director (Commercial) suggested to collect the data through their local officers in such cases.

WESCO was also requested to take necessary action to divert some of the area load of Bolangir old grid to Bolangir new so that solar power generated by Aftab Solar plant can be utilized.

V. CESU

CESU has raised the following issues for discussion

(i) Low Voltage Problem at

Khurda
Puri
Angul
Jagatsingpur
Choudwar
Barchana

(ii) Upgradation of Transformer capacity at Boinda and Salipur

(iii) Equipping 33 kV bay at Barkot Grid for connectivity of Pallahara 33 kV feeder

Deliberation in the meeting

O&M representative stated that the low voltage problem at Khurda can be overcome by diverting Jatni area load to Ransingpur Grid as there is adequate capacity available. However, after commissioning of Atri 220 kV grid S/S the voltage profile of Khurda will be improved.

At Puri there is no low voltage problem at present.

At Barchana there is no low voltage problem at present since the voltage profile at Chandikhola is well within the limit.

At Boinda 3rd transformer will be commissioned so that Angul area load can be diverted.

At Salipur additional 20 MVA transformer will be commissioned.

At Barkote Grid equipping the 33 kV feeder bay will be done.

CESU may record the Voltage profile and place in the next meeting for discussion.

{Action:-CESU& CGM(O&M)}

VI. SOUTHCO

SOUTHCO stated that Machhakund generation is not being considered for computing UI charges of SOUTHCO.

Deliberation in the meeting

SLDC stated that the ABT compliance energy meter for recording of Machhakund drawal is yet to be installed. O&M may expedite for installation of such meter for recording Machhakund drawal at Jaynagar sub-station.

{Action:-CGM(O&M)}

VII. Energy Tracking Group of SLDC

The representative stated that the data are recorded in the W-Import register in place of W-export register the energy meters of some of the Generators such as NALCO, IMFA, OHPC stations.

Deliberation in the meeting

E&MR group of OPTCL may be advised to do the needful.

{Action:-CGM(O&M)}

VIII. OPGC

The representative of OPGC stated that their deemed generation claims are not being settled since long.

Deliberation in the meeting

Director (Commercial) advised to take up the issues with GRIDCO / SLDC separately.

{Action:-Sr. GM(PP) / SLDC}

ITEM NO:16 Date and venue of the 67th PSOC meeting.

The date and venue of the 67th PSOC meeting will be intimated to all the members. The meeting was ended with vote of thanks conveyed by G.M, SLDC to all the Members.

Sr. G.M. (Power System)

MEMBERS PRESENT

SL.NO.	NAME	DESIGNATION
1	Er. P.K. Pradhan	Director (Commercial), GRIDCO
2	Er S.K. Das	Director (Engineering), OPTCL
3	Mr.M. Ananta Rao	C.G.M. (IT), OPTCL
4	Er. P. K. Dash	Sr. G.M. (PS), OPTCL
5	Er. C. Rakshit	Sr. G.M. (CP), OPTCL
6	Er, A. K. Mohanty	G.M. (R&T), OPTCL
7	Er. R. K. Das	G.M., Telecom, OPTCL
8	Er. B.B. Satpathy	D.G.M., Telecom, OPTCL
9	Er. Samir kumar Mohanty	Manager, GRIDCO
10	Er. Madhusudan Sahoo	D.M., GRIDCO
11	Er. S.K. Das	Tech. Consultant, SLDC
12	Er. S.K. Hota	G.M.(GO), SLDC
13	Er. P. K. Mishra	A.G.M., SLDC
14	Er. Umakanta Sahoo	A.G.M., SLDC
15	Er. P. K. Das	Manager, SLDC
16	Er. Archana Sahoo	D.M., SLDC
17	Er. M.R.Mohanty	D.G.M., OPTCL
18	Er. G.R. Panigrahi	Manager,GCC, OPTCL
19	Er. S. K. Das	D.M. (O&M), OPTCL
20	Er. Harapriya Behera	A.M.(RTC), OPTCL
21	Er. D.N. Patra	Manager., OHPC
22	Er. Ch. B.N. Nayak	Dy. Manager, OHPC
23	Er. D.N. Guru	Manager., OPGC
24	Er. Sudhahar Swain	Sr. Manager., OPGC
25	Er. Madhumita Soren	Manager., OPGC
26	Er. S.C. Das	Manager., OPGC
27	Er. P.K. Padhy	D.G.M., CESU
28	Er. Dipankar Behera	D.G.M., CESU
29	Er. M.K. Praharaj	D.G.M., NESCO
30	Er. Jayaram Parida	A.G.M., SOUTHCO
31	Er. S. Mohanty	J.M., SOUTHCO
32	Er. Ashish Kumar Panda	Dy. Manager, WESCO
33	Er. A.K. Banerjee	D.G.M., RSP
34	Er. S. Mishra	A.G.M., NALCO
35	Er. S.K. Panigrahi	A.G.M., NALCO
36	Er. Dibakar Behera	G.M., IMFA
37	Er. S.K.Mishra	Sr. Manager, TTPS
38	Er. R.V.Pattnaik	D.G.M., TTPS
39	Er. Arabinda Pani	A.V.P., Sterlite, Jharsuguda
40	Er. S.S. Rath	A.G.M., VAL, Jharsuguda
41	Er. B.P. Mishra	Director, JSPL