



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

No. SGM(PS)-PL-15/2014(Part) / 2150⁽²⁷⁾

Dated 26.07.2014

From:

Sr. G.M (Power System)
OPTCL, Bhubaneswar.

To:

As per distribution list

Sub: Minutes of 76th Power System Operational Co-ordination meeting held on 16.07.14 at PTC, Chandaka.

Sir,

Please find enclosed herewith the minutes of 76th Power System Operational Co-ordination meeting held on 16.07.14 at Power Training Center, Chandaka.

This is for your information and necessary action.

Yours faithfully;

Encl.: As above


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.

Distribution list

1. The Director (Commercial), Gridco, Bhubaneswar
2. The Director (Operation), OHPC, Bhubaneswar
3. The CGM (O & M), OPTCL, Bhubaneswar
4. The CGM (Const.), OPTCL, Bhubaneswar
5. The CGM, (RT&C), OPTCL, Bhubaneswar
6. The C.G.M (PP), GRIDCO, Bhubaneswar
7. The CGM (IT), OPTCL, Bhubaneswar
8. The Sr. G.M (C.P), OPTCL, Bhubaneswar
9. The Sr. G.M (TP&C), OPTCL, Bhubaneswar
10. The Sr. G.M. (CPC), OPTCL, Bhubaneswar
11. The Member Secy., (GCC), OPTCL, Bhubaneswar
12. The C.E.O., CESU, Bhubaneswar
13. The M.D., WESCO, Burla
14. The M.D., NESCO, Balasore
15. The MD., SOUTHCO, Berhampur
16. The G.M. (Telecom), OPTCL, Bhubaneswar
17. The Vice President (O), IMFA, Choudwar
18. The D.G.M (Electrical), IbTPS, OPGC, Banharpali
19. The G.M. (O &M), CPP, NALCO, Angul
20. The DGM (O & M), NTPC (TTPS), Talcher
21. The G.M, HINDALCO, Hirakud
22. The D.G.M (Power Distribution), RSP, Rourkela
23. The D.G.M. (Elect.), JINDAL Stainless Ltd, Duburi
24. The G.M, Vedanta Aluminium Ltd., Jharsuguda
25. The G.M.(Elect.), Bhushan Steel & Power Ltd, Budhipadar
26. The Sr. G.M. (Elect.), Bhusan Steel Limited, Meramundali
27. The S.E, Machhakund

Odisha Power Transmission Corporation Ltd. Bhubaneswar.

Minutes of 76th PSOC meeting held on 16.07.2014 at PTC, Chandaka.

List of participants is at Annexure-A.

Sr. G.M (Power System) welcomed all the participants to the 76th Power System Operational Coordination meeting and highlighted the system performance during the month of June'14 and overall power scenario of the State. He also emphasized on the over drawl by all the Discoms during the month.

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

D.G.M. (SS) took the agenda items for discussion.

The review proceeded as follows:

PART A: CONFIRMATION OF MINUTES

A.1: Confirmation of minutes of 75th PSOC meeting held on 18.06.2014

The minutes was circulated vide letter No. SGM (PS)-PI-15/2007(Vol.-VI)-1982²⁸), dated 08.07.2014 to all the members and also uploaded in the SLDC website. No comment has been received from any of the members.

Members may confirm the minutes.

Deliberation in the meeting

Minutes of 75th PSOC meeting was confirmed since no comments were received.

PART B : SYSTEM PERFORMANCE

B1: Review of Grid Performance for the month of June'14.

(A) Frequency

It was noticed that, during the month, **45.18%** of times the frequency remained in the IEGC band i.e 49.90Hz–50.05Hz in comparison to **53.45%** during the month of May'14. The maximum and minimum System frequency during the month of June'14 was 50.71 Hz & 49.06 Hz respectively.

(B) Grid demand

Grid demand for the month of **June'14** was reviewed. The energy consumption during the month was 2190 MU. The maximum System demand of **3723 MW** occurred on 05.06.2014 at **21:00 Hrs** and minimum demand of **2043 MW** occurred on **17.06.2014** at **19:00 Hrs**.

Deliberation in the meeting

It is observed that while energy consumption during the month of **June' 14** was increased by **100 MU**, the peak demand during the month has reduced by **32 MW** from that of **May'14**. The energy consumption during the month has been increased by **235 MU** in comparison to **June'13**.

In the last meeting all the Discoms were requested the furnish the average daily energy requirement for each month considering the annual energy drawal approved in their respective ARR in the prescribed format for generation and exchange planning, which is yet to be received by SLDC. All Discoms are once again requested to furnish the above information for the month of August 2014.

[Action: All DISCOMs]

(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 **June'14** was reviewed. It is noticed that **Jayanagar** and Narendrapur 220 kV buses had experienced a maximum voltage of **252 kV** and minimum Voltage of **193 kV** was experienced at **Bidanasi** 220 kV bus.

Deliberation in the meeting

Maximum voltage at Jaynagar occurred due to under loading of long transmission lines & VAr flow from Jeypore PG end due to inadequate reactor capacity at Jeypore (PG). SLDC has approached ERLDC to instruct Jeypore (PG) for lowering tap position of ICT and examine the possibilities of enhancing the reactor capacity at Jeypore (PG) S/S through ERPC. It was decided to raise this issue in the 99th OCC meeting of ERPC by Sr. GM (PS). Simultaneously, the VAr flow from Jeypore (PG) end also to be monitored by SLDC for reporting to ERLDC. Under Voltage at Bidanasi S/S need to be investigated by SLDC.

[Action: SLDC]

(D) Energy Generation / import during the month of June'14

Energy generation and exchange during the month of June 14 was reviewed. The total quantum of energy drawn from all the generation sources including Central Sector Share and CGP/IPP support during the month was 2189.68 MU.

(E) Drawal of Machhakund Power

The energy drawal during the month was 20.474 MU against total generation of **42.588** MU (AP drawal = 19.732MU)

Deliberation in the meeting

As decided in the last meeting, Southco agreed to propose construction of new 33 kV line in their CAPEX plan, so that drawal from Machhakund PH can be optimized. SLDC shall convene a meeting at Jayanagar to examine the ground realities for optimization of Machhakund drawal.

[Action:-SLDC/CGM (O&M)/ SOUTHCO]

(F) DISCOM Drawal during the month of June'14

The schedule and actual energy drawal by Discoms for the month of **June'14** was reviewed.

Deliberation in the meeting

It was noticed that all the Discoms have overdrawn during the month. The total over drawal of all the Discoms during the month was 117.105 MU. WESCO stated that their drawal was increased due to enhancement of RSP drawal.

All DISCOMs were requested to remain in schedule irrespective of frequency.

[Action: All Discoms]

PART C: NEW ISSUES

C1: Compliance of decisions of 97th OCC meeting of ERPC held on 15.05.2014

Item no. B.7.4: Depletion in OPTCL network due to impact of cyclone "Phailin"

In 96th OCC OPTCL informed that, the 220 kV Narendrapur-Mendasal line will be brought into service tentatively by July, 14.

Deliberation in the meeting

CGM (O&M) stated that one ckt of 220 kV Narendrapur-Mendhasal line is likely to be charged today i.e. on 16.07.2014 along with the 2nd ckt which will be charged at 132 kV for feeding to Khurda S/S.

Regarding Prolonged outage of 220 kV Kaniha-Meramundali ckt-I, CGM(O&M) stated that, the same is expected to be charged by end of July after replacing the CT.

Item no. B.24: Hearing at CERC on petition No SM/005/2014 regarding non-compliance of IEGC 5.4.2 (d) Regulation-regarding implementation of automatic demand management scheme

Deliberation in the meeting

SLDC stated that SLDC has filed its reply before CERC on 28.06.2014 along with the feedback received from CESU and NESCO, which has been mailed to all the DISCOMs & OPTCL. In spite of repeated reminders feedback from Wesco and Southco are yet to be received by SLDC regarding implementation of ADMS in their respective control areas. O&M may examine the feasibility of implementation of the scheme.

Wesco and Southco agreed to furnish their feedback.

[Action:-Wesco / Southco]

PART D: OPERATIONAL PLANNING

D1: Non-compliance of drawal schedule by DISCOMs

Due to low hydro potential and multiple outages of thermal units, State's power availability has been reduced substantially resulting reduction of DISCOM's drawal schedule. The DISCOMs are supposed to comply with their respective drawal schedule. It is noticed that CESU & WESCO are overdrawing most of the times even at adverse frequency condition in spite of repeated instructions issued by SLDC. Such overdraw by DISCOMs reflects in the State's drawal from grid for which ERLDC is issuing messages frequently. Also, GRIDCO is forced to pay the deviation charges to the tune of Rs 10/- to Rs.16/- per unit for the overdrawal as per CERC Regulation.

Deliberations in the meeting.

Discoms stated that, Grid S/Ss are not responding to Discom's request for hand tripping of 33 kV feeders. SLDC stated that all Discoms have agreed in the meeting taken by the Secretary, Energy on dated 20.02.2014 on "Grid Co-ordination for effective power management" at PTC, Chandaka that they will depute their local officers to the Grid S/S during peak system condition to monitor their drawal and demand management. The Discoms may prepare sub-station wise demand management schedule for implementation of restriction and forward to SLDC. All the GMs in charge of EHT (O&M) circles shall be intimated for issue of instructions to the Grid S/Ss accordingly. The local officer of Discom shall also make himself available in the Grid S/S during peak load period.

[Action:-CGM (O&M) / All DISCOMS]

D2: Availability of data of real time power flow of feeders covered under Under-frequency Load shedding scheme (UFLS) and lower relief expected to be obtained in real time system operation

Deliberations in the meetings

A.G.M. (Telecom) stated that tendering for the work is under process. The work is expected to be completed by October 2014.

[Action:-Sr. GM (CPC) / G.M. (Telecom.)]

D3: Communication issues

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

The status of data communication from CGPs as follows

Sl. No	Name of CGP	Present status
1	M/s FACOR Power Limited	PLCC is under testing. SCADA is yet to be established.
2	M/s Shree Ganesh Metalicks Ltd.	CVT, WT are installed at OPTCL switching sub-station, Kuanrunda. RTU procured but PLCC equipments are yet to be procured.
3	M/s Shalivahan Green Energy Ltd.	Penalty is imposed by OERC.
4	M/s IFFCO, Paradeep	PO issued by CPC for procurement of PLCC / SCADA. Inspection of PLCC / SCADA is completed.
5	M/s MSP Mettalicks	RTU is commissioned. Database has been prepared and will be integrated within June 2014.
6	M/s Narbheram	BOQ issued on 06.07.12. At present the CGP is connected through 33 kV line.
7	M/s NINL, Duburi	Yet to be established. Matter has been intimated to GCC.
8	M/s Balasore Alloys	Procurement action for PLCC / SCADA is going on.
9	M/s Adhunik Metallics	Database preparation could not be initiated due to non-submission of SLD. PLCC is not commissioned. RTU is not installed.
10	M/s Rohit Ferrotech	Not procured.
11	M/s NALCO	Commissioning of PLCC / SCADA is yet to be done.

SLDC stated that in view of CERC order dated 19.12.2013 in Petition No. 56/SM/2013, the list of the defaulting CGPs & Industries may be intimated to OERC for necessary action. AGM (Telecom) stated that they have forwarded the status of the defaulting utilities to GCC. It was decided in the GCC shall convene a meeting with all the defaulting CGP and their views shall intimate to OERC for necessary action.

[Action:-GCC / G.M. (Telecom.)]

D4: Availability of real time data (through SCADA) in SLDC control room.

Frequent data suspect is being noticed in the SLDC control room causing problem in real time operation.

Deliberations in the meetings

A.G.M. (Telecom) stated that due to failure of optical fiber link between Kaniha PG & Rourkela PG, data communication from Budhipadar sub-LDC / ERLDC to SLDC, Bhubaneswar remained intermittent. However, data only from Budhipadar to SLDC have been restored through BSNL leased line.

Director (Commercial) stated that there is a substantial difference between the State's demand & sum total of DISCOM drawal which need to be rectified. A.G.M. (Telecom) was requested to examine the power import / export data of DISCOM control area to which he agreed.

[Action:- G.M. (Telecom.)]

D5: Extension of Power Supply to Sunabeda Grid Sub-station from NALCO, Damanjodi.

Extension of power supply to Sunabeda grid sub-station, in view of the prolonged shutdown of Jayanagar-Sunabeda 132 kV line, for converting into D/C line / in case of breakdown of 132kV Jaynagar-Sunabeda ckt.

In the last meeting, it was decided to convene a meeting with NALCO management to finalize the issue.

Deliberations in the meetings

C.G.M. (O&M) stated that a meeting was convened and it was decided to strengthen the Damanjodi-Sunabeda & Jaynagar –Damanjodi ckt. prior to availing prolonged shutdown of Jaynagar – Sunabeda ckt.

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

D6: DISCOM Issues.**(1) NESCO****ABT Related Issue**

- a. Displaying deviation charges in the ABT Dashboard.
- b. Displaying of historical data.
- c. Non-providing of “day ahead schedule” by intra state OA Customers.

Deliberations in the meetings

SLDC stated that displaying deviation charges in the ABT Dashboard shall be examined. The DISCOMs may visit ERLDC website for such information. Historical data are available in SLDC website. The “day-ahead schedule” by intra state OA Customers is in place.

[Action:-SLDC / DISCOMs]

Operation Related Issue.**Deliberations in the meetings**

Director (Commercial) stated that bilateral issues like voltage problem, up-gradation of sub-stations may be taken up with OPTCL through field circles.

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

(2) SOUTHCO

1. Southco has raised issues like installation of PT at Jaynagar, up-gradation of CT for 33kV Khalikote feeder at Balugaon and some issues which have already been discussed in earlier meetings.
2. Construction of sub-station at Borigumma and Buguda, up-gradation of sub-station capacity at Purushottampur, construction of 2nd 132kV circuit for Ganjam grid sub-station.

Deliberations in the meetings

Director (Commercial) stated that bilateral issues like voltage problem, up-gradation of sub-stations may be taken up with OPTCL through field circles. CGM (O&M) stated that construction of 2nd ckt for Ganjam S/S shall be examined by OPTCL. Proposals for construction of new S/Ss may be forwarded with proper justification.

[Action: Southco/ CGM (O&M)]

(3) WESCO

Wesco stated that as per the provision they are not billing the quantum of energy import by Solar projects, which in turn, should have been deducted from the BST bill of Wesco. But the same quantum is not being deducted from the BST bill.

Deliberations in the meetings

Director (Commercial) stated assured to take action on this matter.

[Action: Gridco]

PART E: OPERATIONAL PLANNING

E1: Commissioning status of New Transmission elements.

As deliberated in the meeting the status of commissioning of new transmission elements is as follows:

Sl. No	Details of transmission element	Present Status
1	Commissioning of 220 kV Jayanagar-Jeypore 2 nd DC line	Work has already been started. Expected to be completed by June 2015.
2	Commissioning of 400 kV Meramundali-Mendhasal 2nd ckt	Line is ready and shall be charged after commissioning of 3 rd ICT at Mendhasal for which work order / PO issued. (October-2015)
3	Commissioning of 400 kV Ib-Meramundali D/C line.	400kV Lapanga-Meramundali line to be charged by August 2014. 400kV Ib-Lapanga line is expected to be commissioned by December'14.
4	Commissioning of 220 kV Bidanasi-Cuttack line	Work in progress and expected to be completed by June 2015.
5	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by June 2015.
6	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by December 2015.
7	Commissioning of 220/132 kV Kesinga S/S	Work under progress. Expected by September 2015.
8	Connectivity to Keonjhar PG	Proposal to connect by LILO of 220 kV Joda-TTPS through Nayagarh 220 kV (ESSAR) S/S. Expected to be completed by June 2015.
9	Commissioning of Bolangir New-Bolangir(PG) line	220 kV Burla - Bolangir D/C line will be made LILO at Bolangir (PG).
10	LILO of 220 kV Burla - Bolangir line at Bolangir(PG)	Work awarded. Expected to be completed by Nov, 2014
11	220 kV Bolangir (PG) –Kesinga S/C line through LILO of 220 kV Bolangir-Kesinga line.	220kV Bolangir – Kesinga D/C line is under construction. It is proposed to connect Bolangir (PG) through LILO arrangement on completion of the line. (December-2015)

OPTCL intimated the list of S/Ss already commissioned and likely to be commissioned in near future as tabled.

Sl. No	Name of the sub-station	Probable month of commissioning	Name of DISCOM
1	132/33kV Banki sub-station	Aug-14	CESU
2	132/33kV Konark sub-station	Mar-15	CESU
3	132/33kV Samuka beach sub-station	Mar-15	CESU
4	132/33kV Khajuriakota sub-station	Dec-14	CESU
5	132/33kV Sarasmal sub-station	Oct-14	WESCO

6	132/33kV Kalunga sub-station	Oct-14	WESCO
7	220/33kV Banei sub-station	Dec-14	WESCO
8	132/33kV Boud sub-station	Aug-14	SOUTHCO
9	132/33kV Dabugaon sub-station	Dec-14	SOUTHCO
10	132/33kV Umerkote sub-station	Mar-15	SOUTHCO
11	132/33kV Nuapada sub-station	Aug-14	WESCO
12	132/33kV Padmapur sub-station	Dec-14	WESCO
13	132/33kV Udala sub-station	Mar-15	NESCO
14	132/33kV Somanathpur sub-station (Near Balasore)	Oct-14	NESCO

All Discoms were requested to intimate their action plan for development of 33 kV infrastructure for power drawal from those S/Ss.

[Action:- DISCOMs]

E2: Metering issues.

Installation of energy meters already released by CGM (O&M) for Hydro Stations, traction sub-stations, Joy Iron Steel Limited, REHPL (solar) and feeders emanating from Burla power house may be expedited as the same has been delayed considerably.

Deliberations in the meetings

CGM (O&M) stated that M/s Secure Meters will start installation of meters from next week.

[Action: CGM (O&M)]

E3: Metering issue of TTPS.

In the last meeting, SLDC stated that visit to TTPS site during July has been planned along with O&M & GRIDCO.

Deliberations in the meetings

SLDC stated that CGM (O&M), Director (Commercial), Gridco and Sr. G.M (PS) have visited TTPS on 15.07.2014 and examined installation of meters in all feeders emanating from TTPS.

[Action: CGM (O&M)]

E4: Major Events in the month of June'14.

On 13.06.2014: 220/33 kV, 20 MVA transformer at Mendhasal S/S Commissioned

E5: Under Frequency Relay operation in OPTCL System during the month of June'14.

Deliberation in the meeting

There is no UF Relay operation occurred during the month of June'14.

E6: Important Grid Incidences during the month of June'14

Deliberation in the meeting

All six Nos major incidents in OPTCL system occurred in OPTCL system during the month were reviewed.

A meeting was convened by O&M wing on dated 14.07.2014 to analyze the incidents. The concerned officers of EHT (O&M) and E&MR had deliberated the reasons of disturbance. It was also decided to take remedial measures to avoid reoccurrence of such incident in future.

[Action: CGM (O&M)]

E7: Outage of major transmission Lines / Elements during the month of June'14 (above 10 hrs).**Deliberation in the meeting**

Outage of major transmission elements during the month was reviewed. Outages are due to insulator failure, LA failure and jumper / conductor snapping.

E8: Review of Outage Program of State Generators / Transmission elements for the month of July '14:

Tentative Outage programme for State Generators for the month of **July'14** are as follows:

Sl.	Station	Unit	Period	Remarks
1	Burla	# 1	17.02.14 to 31.07.14	Shaft seal work under the supervision of ALSTOM Guide vane problem, lever broken Programmed for R&M
		# 3	19.03.14 to 10.08.14	
		# 6	17.02.14 to continue	
2	Chiplima	#3	15.02.14 to 31.08.14	Programmed for R&M
3	Balimela	# 1	31.01.13 to 31.07.14	Thrust bearing problem Thrust bearing problem Governor Problem
		#2	10.12.13 to 31.07.14	
		#7	02.07.14 to 31.07.14	
4	Rengali	# 2	12.07.14 to 18.07.14	Vacuum valve problem
5	Indravati	#4	25.06.14 to 19.07.14	Annual Maintenance
6	Upper Kolab	#3	16.07.14 to 17.07.14	Circuit Breaker Problem
5	TTPS	# 5	25.06.14 to 16.07.14	Boiler OH + retrofit ESP OH + CW duct dish end replacement.
		# 6	10.07.14 to 19.07.14	
6	IbTPS	# 2	Deferred	Annual Overhauling

E9: Issues raised by Ib TPS

- a. Implementation islanding scheme at Ib-Budhipadar command area. Commissioning of Relay as specified in the meeting may done early.
- b. Bus-bar protection at Budhipadar sub-station
Operational of the bus-bar protection scheme to avoid unwanted tripping of Ib units.

Deliberations in the meeting.

CGM (O&M) stated that the relay specified for islanding of Ib TPS has already been commissioned but kept under observation without trip command. Commissioning will be done after balancing load in two bus sections.

Bus bar protection panel has been installed at Budhipadar control room and will be commissioned soon.

[Action: CGM (O&M)]

E10: Providing protection system in terms of IEGC & CEA Regulations:

CERC, vide RoP of hearing on 05.06.2014 in Petition No.-59/MP/2014 filed by ERLDC directed OPTCL to submit a compliance report of earlier audit carried out by ERPC, on affidavit, by 18.07.2014. Further, CERC directed engage an independent third party preferably CPRI to undertake afresh, a complete audit of OPTCL transmission system as per check list specified by report of task force on power system analysis under contingency, which is available on CEA website and submit a report within three months of issue of the RoP.

Deliberations in the meeting.

CGM (O&M) stated that the formats were sent to field S/Ss for compliance. OPTCL will file the compliance before the CERC, soon after receipt of those formats. SLDC suggested that OPTCL may file application before the CERC to allow more time.

[Action: CGM (O&M)]

PART F: OTHER ISSUES

F1: Non-function of communication to Balimela, Upper Kolab and Upper Indravati Generating stations.

Deliberations in the meeting.

AGM (Telecom) stated that carrier phones for those Power stations are functioning. He also stated that IP based Orange Telephone shall be provided in all sub-stations & generating stations within 6 months time.

[Action:- G.M. (Telecom.)]

F2: Date and Venue of the next (77th) PSOC meeting:

The 77th PSOC meeting is proposed to be held in the 3rd week of August'2014. The details of venue shall be intimated to all the members.

Meeting ended with Vote of thanks by GM, SLDC.

76th Power System Operational Co-ordination Review Meeting
[At 11:00 A.M. on 16.07.2014]
[At Power Training Center, OPTCL, Chandaka, Bhubaneswar]

Sl. No.	Name	Designation	Organisation	Telephone No.	Mobile No.	E-mail Address	Signature
1	Er. P.K. Pradhan	Dir. (Comp)	GRIDCO		9437125494	Prasanti.305@gmail.com	
2	Er. P.C. Tripathy	C.G.M. (Comp)	OPTCL	9438907014		egm.0111@optcl.co.in	
3	Er. B.P. Mishra	C.G.M. (Comp)	OPTCL	9438907019		ele.bpmishra@optcl.co.in	
4	Er. D. Setty	Sr. Engr. (OHPC)	OHPC	9437111818		ditsettyd@yaho.co.	
5	Er. M.R. Mohanty	Sr. G.M. (CS)	SLDC	9438907310	9438907310	m.mohanty19@gmail.com	
6	Er. D.N. Patra	Manager (E)	OHPC	9778109422	9778109422	dnpatra.ohpc@gmail.com	
7	Ch. B.N. Nayak	Ex. Mgr (E)	OHPC	9437733014	9437733014	nayakchbn@gmail.com	
8	R.K. Sharma	DGM	JSL	9938250074		rksharma@ind.jindalsteel.com	
9	P.K. Nath	AGM (E)	NALCO	9437005385		pradeepnath@nalcoidia.co.in	
10	S. Swain	Chief Manager (Elec)	OPHC	9338714726		Sudhakar.Swain@opg.co.in	
11	A.S. Rao	Chf. Manager (Elec)	OPHC	0664522248 9338715417		as.rao@opg.co.in	
12	S. Naik	Gen. (OHPC)	WESCO			Sribatse-naik@yahoo.com	
13	S.K. Patra	DM (ABT)	WESCO	9437057208		smishrskt@gmail.com	
14	S.P. Mallik	GM (B&P)	NESCO	9438906006		scere.natra.mallik@nescorissa.com	
15	Sharad Chandra Mahalik	AGM (NTPC)	NESCO	9438906016		sharad.mahalik@gmail.com	
16	R.V. Patnaik	AGM (OS)	NTPC ER-II HQ	9438233243		rvpatnaik@ntpc.co.in	
17	S.K. Mishra	DGM (OS)	NTPC	9438233207		SKmishra05@ntpc.co.in	
18	S.K. Pattanayak	Manager (E)	OPTCL	9438907245		st.sk.pattanayak@optcl.co.in	
19	J.K. Senapati	DGM (E)	OPTCL		9438907242	dr.jksenapati@optcl.co.in	
20	S.K. Das	Mgr (E)	OPTCL	9438907316		ele.santoshdas@optcl.co.in	
21	T. JAYADAV	Finance & Admin. Director	Sreebh Co	9556147788		Jayadav - sumudu@rediffmail.com	
22	Samyuktanta Ray	Mgr (T/C)	OPTCL	9438907477		tel.suray@optcl.co.in	
23	D.R. Singh Bhoj	AGM (T/C)	OPTCL	9438907520		drchrisrbl@gmail.com	
24	Zemakanta Saha	GM, SLDC	SLDC	9438907403		UKSbbsvc@yahoo.com	
25	L.K. Mohanty	GM, SLDC	SLDC	9438907065		ele.lamohanty@optcl.co.in	
26	B.N. Bohidar	GM, SLDC	SLDC	9438907302			
27	P.K. Pathy	GM, ABT	CRSL	9438676810			
28	G.R. Panigrahi	AGM	GC	9438907327		ele.gpanigrahi@optcl.co.in	
29	P.K. Mishra	GM	SLDC		9438907402	pk.mishra@sldeconista.org.in	
30	S.K. Das	Consultant	SLDC		9437000261	S-SankuDas@rediffmail.com	
31	P.K. DAS	DGM	SLDC		9438907408	prashantk.das@yahoo.co.in	
32	M. Ananta Rao	CGM (IT)	OPTCL		9438907408	infotech@optcl.co.in	
33	Arachana Sahoo	DM (Elec)	SLDC		9437389535	aracha.sah@yaho.com	
34							