# STATE LOAD DESPATCH CENTRE

# OFFICE OF THE CHIEF LOAD DESPATCHER

ODISHA POWER TRANSMISSION CORPORATION LIMITED
GRIDCO Colony, P.O.- Mancheswar Rly. Colony, Bhubaneswar-17, FAX-0674- 2748509
CIN – U40102OR2004SGC007553

No. SGM (PS)-PL-15/2015/ 765(43)

Dt. 17.03.2016

To:

As per distribution list

Sub: Minutes of  $94^{th}$  Power System Operational Co-ordination meeting held on .

Sir,

Please find enclosed herewith the minutes of 94<sup>th</sup> PSOC meeting held on 23.02.2016 at OPTCL Power Training Center, Chandaka.

This is for your information and necessary action.

Encl: As above

Yours faithfully;

GM (System Support)

CC: Copy along with copy of enclosure forwarded to EA to CMD OPTCL for kind information of CMD.

#### 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 CGM (PP), GRIDCO, Bhubaneswar.
- 7. The CGM (IT), OPTCL, Bhubaneswar.
- 8. The Sr. G.M (Const)-I, OPTCL, Bhubaneswar.
- 9. The Sr. G.M (Const)-II, OPTCL, Sambalpur.
- 10. The Sr. G.M (CPC), OPTCL, Bhubaneswar.
- 11. The Sr. G.M (CP), OPTCL, Bhubaneswar.
- 12. The Sr. G.M. (O&M), Zone-I, Narendrapur.
- 13. The Sr. G.M.(O&M), Zone-II, Meramundali.
- 14. The Sr. G.M. (Telecom), OPTCL, Bhubaneswar.
- 15. The CEO, CESU, Bhubaneswar.
- 16. The A.O., WESCO, Burla
- 17. The A.O., NESCO, Balasore
- 18. The A.O., SOUTHCO, Berhampur.
- 19. The Member Secretary (GCC), OPTCL.
- 20. The ED, Power Grid Corporation of India, Bhubaneswar.
- 21. The Sr. G.M. (El.), BHEP, Balimela
- 22. The A.G.M. (El.), CHEP, Chiplima
- 23. The Sr. G.M. (El.), UIHEP, Mukhiguda
- 24. The Sr. G.M. (El.), RHEP, Rengali
- 25. The D.G.M. (El.), HHEP, Burla
- 26. The D.G.M. (El.), UKHEP, Bariniput, Koraput
- 27. The S.E. (O&M), Machhakund
- 28. The DGM (Elect.), IbTPS, OPGC, Banharpali.
- 29. The Vice President (O), IMFA, Choudwar.
- 30. The D.G.M. (O&M), NTPC (TTPS), Talcher.
- 31. The AGM (Elect.), JINDAL Stainless Ltd., Duburi
- 32. The G.M, HINDALCO, Hirakud.
- 33. The G.M.CPP, NALCO, Angul.
- 34. The Director, M/s. Jindal Steel & Power Ltd., Angul
- 35. The AVP-Vedanta Ltd (IPP), Jharsuguda
- 36. The G.M, Vedanta Ltd (CGP), Jharsuguda.
- 37. The DGM (Power Distribution), RSP, Rourkela.
- 38. Joint President, Aditya Aluminium Ltd., Lapanga, Sambalpur
- 39. The G.M.(Elect.), Bhusan Steel Limited. Meramundali
- 40. The G.M. (Elect.), Bhusan Power & Steel Ltd, Budhipadar.
- 41. The G.M.(Elect.), IFFCO Limited.
- 42. Director & COO, GMR Kamalanga Energy Limited, Satyanagar, Bhubaneswar.

# Odisha Power Transmission Corporation Ltd. Bhubaneswar.

# Minutes of 94<sup>th</sup> PSOC meeting held on 23.02.2016 at PTC, Chandaka

List of participants is at Annexure.

Sr. G.M (Power System) welcomed all the participants to the 94<sup>th</sup> Power System Operational Coordination meeting and highlighted the system performance during the month of January'2016 and overall power scenario of the State. He also emphasized on the drawal by all the Discoms during the month.

The meeting was chaired by CGM (O&M), OPTCL.

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

#### The review proceeded as follows:

# 1: Confirmation of minutes of 93<sup>rd</sup> PSOC meeting held on 30.01.2016

The minutes of meeting was circulated vide letter No. SGM (PS)-Pl-15/2015/466<sup>(42)</sup>, dated 19.02.2016 to all the members and also uploaded in the SLDC website. No comment has been received from any of the members.

# **Deliberation in the meeting**

Since no comments have received from the members, the minutes of 93<sup>rd</sup> PSOC meeting was confirmed.

# **PART A: List of items**

List of items to be discussed in the meeting are given in the subsequent parts

#### **PART B: SYSTEM PERFORMANCE**

# B1: Review of Grid Performance for the month of January'2016.

# (A) Frequency

It was noticed that, during the month of January'16, **65.59**% of times the frequency remained in the IEGC band i.e. 49.90Hz - 50.05Hz in comparison to **66.27**% during the month of December'15. The maximum and minimum System frequency during the month was **50.20 Hz & 49.80Hz** respectively.

#### (B) Grid demand

Grid demand for the month of January'16 was reviewed. The energy average consumption during the month was 2816 MW. The maximum System demand of 3861 MW occurred on 28.01.2016 at 20:00 Hrs and minimum demand of 2117 MW occurred on 28.01.16 at 14:00 Hrs.

#### **Deliberation** in the meeting

It is observed that the average demand during the month of January' 16 was increased by 93 MW and the peak demand was increased by 48 MW from that of December' 15. The average energy consumption during the month has been increased by 236 MW in comparison to January' 15.

# (C) Voltage Profile of important Sub Stations in OPTCL System during the month of Jan'16.

The Voltage profile at different 220 kV buses in OPTCL system during the month of **January'16** was reviewed.

#### **Deliberation in the meeting**

The maximum Voltage of 246.12 kV occurred at Jaynagar 220 kV bus while Narendrapur, 220 kV buses have experienced the minimum Voltage of **175.91** kV. Bus Voltages at Samgara and Lapanga could not be incorporated due to non availability of energy meter in those S/Ss.

[Action: CGM (O&M)]

# (D) Loading of 220/132 kV Auto at 220 kV S/Ss in OPTCL system for the month of January'15.

Auto loading of all 220 kV S/Ss was reviewed. It was noticed that some of the ICTs have not been provided with energy meter.

# **Deliberation** in the meeting.

It was deliberated that procurement of meters was under process.

[Action: CGM (O&M)]

# (E) DISCOM Drawal during the month of January'16

The schedule and actual energy drawal by Discoms for the month of January'16 was reviewed.

## **Deliberation in the meeting**

It was noticed that WESCO & SOUTHCO had overdrawn 11.139 MU and 3.105 MU respectively during the month, while NESCO and CESU had drawn energy almost as per their schedule. All Discoms were requested to comply with their respective drawal schedule.

[Action: All Distribution Utilities / SLDC]

# (F) Energy Generation / import during the month of January'16

Energy generation and exchange during the month of January'16 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 **2095.149 MU**.

#### (G) Drawal of Machhakund Power during the month of January'16

The drawal of Machhakund power during the month of January'16 was **27.415 MU** against AP drawal of **21.077 MU**.

In the last meeting it was deliberated:

- a. To issue necessary instruction to Jayanagar Grid for reducing Machhakund drawal in case of over drawal to avoid hand tripping from Machhakund end.
- b. Offer from M/s Chemtrol is awaited for RVDU at Jayanagar S/S control room.
- c. Rly. Authority to ask for availing power supply at 220 kV Voltage level for their traction S/Ss, proposed to be fed from Rayagada and Sunabeda S/Ss.
- d. Construction of 33 kV Gumuda-Akhusing feeder has been completed. Inspection is left.
- e. Although decided in the coordination committee meeting, Machhakund authority is not taking up the maintenance work for Jayanagar feeder at their end. OHPC may coordinate.

#### **Deliberations in the meeting**

Sr. GM (PS) stated that Shift in charge of Jayanagar S/S should be properly instructed to reduce load in case of over drawal, to avoid hand tripping of feeder from Machhakund end. OHPC may persuade Machhakund authority to make the 2<sup>nd</sup> bay functional for contingency requirement.

Southco may take follow up action for early inspection of newly constructed 33 kV Akhusing-Gumuda feeder.

CGM (O&M) stated that extension of power supply to Traction S/S from Sunabeda S/S has been diverted to 220 kV Laxmipur S/S.

Gridco may write Machhakund authority to compensate the quantum of energy not drawn by Odisha by allowing over drawal.

CGM (Telecom) stated that offer from M/s Chemtrol for providing RVDU at Jayanagar control room is awaited for want of OSI licenses.

# [Action: CGM (Const.) / CGM (O&M) / OHPC / Southco / Gridco / SLDC]

# (H) Under Frequency relay operation in OPTCL System during the month of January'16.

There is no UF Relay operation occurred during the month of January'16 as the frequency had never gone beyond 48.50 Hz.

# PART C – Issues to be raised in 118<sup>th</sup> OCC meeting of ERPC to be held on 26.02.16

# C.1: Charging of 220 KV Raigarh (PGCIL)- Budhipadar line

In the 117<sup>th</sup> OCC, OPTCL being the owner of the line, was advised has to submit B1 to B5 formats to ERLDC and review the protection settings at Budhipadar end for charging the line.

OPTCL vide letter dated 06.02.2016 intimated that they have not received any communication from PGCIL regarding proposal of LILO of 220 kV Raigarh (CSPTCL)-Budhipadar line at 400/220 kV PGCIL Raigarh S/S. OPTCL maintains 61 Kms of the line and rest of the line is being maintained by CSPTCL. According to OPTCL, in this case, the intending licensee i.e PGCIL/CSPTCL need to submit the requisite formats to ERLDC.

#### Deliberations in the meeting.

In the TCC meeting it was decided that CSPTCL and Powergrid shall furnish the data to ERLDC with a copy to OPTCL for relay coordination at Budhipadar end.

#### C.2: Status of PLCC system installed in Eastern Region

In 30th TCC/ERPC, Powergrid agreed to restore the PLCC system at both ends (its own end as well as the constituent end) of a line wherein the other ends are not operational for some reasons or others as one time job.

In 117<sup>th</sup> OCC, OPTCL submitted that OPGW communication installation is under way and they are planning to implement carrier protection using OPGW.

In the last meeting C.G.M. (Telecom.) stated that a letter has been issued to PGCIL for joint verification regarding restoration of communication links for which OPTCL has laid OPGW. OPTCL will not go back with PLCC mode.

#### **Deliberations** in the meeting

C. G.M. (Telecom.) stated that a letter has been issued to ED, Powergrid to finalize a date for joint inspection.

[Action: CGM (Telecom) / Powergrid]

#### C.3: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s

PGCIL has already commissioned the 2 X 315MVA 400/220kV Bolangir S/s by LILOing of 400kV Meramandali-Jeypore S/C line and 400/220 kV Keonjhar S/s with an objective of supplying power from ER grid to its adjoining areas in Odisha.

OPTCL updated the completion schedule of inter-connecting system as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	2 X 315MVA 400/220kV Bolangir S/s	
a.	LILO of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir S/S.	7 out of 14 completed. Severe ROW problem. Negotiation under progress.
b.	LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S.	All work completed. Powergrid to provide meter to be installed at Katapali end before charging the line.
2.	400/220 kV Keonjhar S/S.	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	Work order expected to be issued by Feb-16
b.	Keonjhar (PG)-Turumunga (OPTCL) 220 kV D/C Line.	Yet to be awarded
3.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C line	It will take 1 year for completion.
b.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	After commissioning Pandiabili S/S by Powergrid.

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

# C.4: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.

The activity of the preparation of Crisis Management Plan for countering the cyber attacks and its implementation including the Mock Drills, audits etc. is being monitored by CEA regularly in line with crisis management plant of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly, the updated status to Chief Engineer, Distribution Planning & Development Division, CEA.NTPC communicated their activity of the preparation of Crisis Management Plan for countering the cyber attacks vide letter dated 2nd August, 2013.

In 113th OCC, Member Secretary informed that during interaction with consultants of Grid Study Committee, NLDC agreed that they will plan for conducting workshops on crisis management plan for Cyber Security and few workshops will also be held in Eastern Region.

In the last meeting, CGM (IT) stated that the draft crisis management plan is under preparation.

#### **Deliberations in the meeting**

CGM (IT) stated that the draft report has been prepared, which has to be finalized by the consultant. After finalizing the report, a workshop shall be organized by IT.

[Action: CGM (IT)]

# C.5: Certification through BIS as per IS 18001:2007 to all generating/transmission units.

In 84<sup>th</sup> OCC meeting all constituents were requested to interact with BIS with intimation to ERPC and get certified as per CEA direction.

In 85<sup>th</sup> OCC, NTPC informed that NTPC-Farakka has been certified with IS 18001. Other constituents including OHPC requested to interact with BIS with intimation to ERPC and get certified as per CEA direction. The matter is getting reviewed by highest authorities with top priority.

In the last meeting it was decided that CGM (O&M) shall again write to BIS for certification.

It was decided that BIS shall be reminded again. OPTCL may take the help of any consultancy agency for the above purpose.

[Action: CGM (O&M)]

# **C.6:** Replacement / repair of meters on Various Locations

# i. Replacement/Repair of Defective meter at Mendhasal - SLDC, Odisha

Meter at Mendhasal (GRIDCO) end of Mendhasal (GRIDCO) – Baripada (PG)- I is defective since more than two months. SLDC, Odisha vide mail dated 05.01.2016 have requested for early replacement / repair of meter at Mendhasal.

In the 117<sup>th</sup> OCC meeting, Powergrid assured to make the replacement of meter by end of Jan'16.

# **Deliberations in the meeting**

SLDC stated that the meter at Mendhasal end is functioning at present. Gridco may raise the issue for adjustment of the reactive power flow recorded in the past period, during which the meter was defective.

[GRIDCO]

# ii. Installation of New SEMs in B/C panels at Joda Grid S/s of OPTCL - OPTCL

OTPCL vide mail dated 30.12.2015 have requested for installation of new SEMs at B/C panel at their Joda GSS for 220kV Joda- Ramchandarpur & Joda – Jindal Interstate tie lines.

In the 117<sup>th</sup> OCC meeting Powergrid informed that required meters are already installed and SEM for bus coupler is not required.

ERLDC informed that the SEM reading at both ends of 220 kV Joda-Ramchandrapur line is not matching and advised OPTCL to check for any tapping in the line. SEM for 220 kV Joda-Jindal is not required as it is an intra state line.

# **Deliberations in the meeting**

O&M stated that there is no tapping in 220 kV Joda-Ramchandrapur line. Since there is no line CT, installation of meter in the B/C bay was sought for. SLDC may deliberate in the OCC.

[Action: SLDC]

#### C.7: Dynamic data of Generator Models required in PSSE for Simulations – ERLDC

To carry out proper simulation studies in PSSE, actual generator parameters are required as incomplete or incorrect modeling of generator may not give valid simulation result. Hence all the generating companies are requested to furnish data for generator, exciter, governor, PSS of their all generating units in the format.

In 114<sup>th</sup> OCC, the house was informed that the formats are available at ERPC website.(www.erpc.gov.in)

OCC advised all the generating utilities to submit the relevant information as per the format. All generating utilities agreed to submit.

Till 115<sup>th</sup> OCC, the data received only from NTPC Kahalgaon & Barh, NHPC Teesta-V, GMR and CESC.

In 116<sup>th</sup> OCC, all the other constituents were advised to send the requisite information and ERLDC was requested to give the description of symbols and abbreviations for proper understanding of the constituents.

Subsequently, Vedanta Ltd. has submitted the relevant information vide mail dated 11.01.2016.

In the last meeting all Generators were requested to forward the data to ERLDC at an early date.

#### **Deliberations in the meeting**

O&M and generators stated that SLDC may deliberate in the OCC to clarify the symbols and abbreviations.

C.8: Mock Black start exercises in Eastern Region – ERLDC

[Action: SLDC]	
Schedule	
(2 <sup>nd</sup> )	

Sl.	Name of Hydro	Schedule	Tentative Date	Schedule
No.	Station	(1 <sup>st</sup> )		(2 <sup>nd</sup> )
1	U.Kolab	Last week of May, 2015	Done on 16/07/2015	Last Week of January, 16
2	Rengali	2 <sup>nd</sup> week of June 2015	Done on 09/02/2016	February, 16
3	U. Indravati	3 <sup>rd</sup> week of June 2015	Done on 16/07/2015	2 <sup>nd</sup> week of February 2016
4	Balimela	1 <sup>st</sup> week of November,15	Done on 24/11/2015	1 <sup>st</sup> week of March 2016
5	Burla		Done on 19/01/2016	January 2016

# **Deliberations in the meeting**

Mock black start exercise for Upper Kolab and Upper Indravati may be scheduled during the month of March'2016.

#### [Action: SLDC/OHPC]

# **PART-D – Operational Issues**

# D.1: Non-compliance of drawal schedule by DISCOMs

Non compliance of drawal schedule messages issued to Discoms during the month of **January'16** was reviewed.

It is noticed that WESCO had overdrawn a substantial quantum of power to the tune of 11.139 MU while Southco had overdrawn 3.105 MU beyond their schedule.

# Deliberations in the meeting.

SLDC stated that maximum number of messages were issued to WESCO for compliance of drawal schedule. All the Discoms were advised to remain in the schedule to maintain grid discipline and security.

[Action: All Discom utilities]

# D.2: Revival of Station Transformer for Station Auxiliary supply at Balimela HEP.

It was suggested in earlier meetings for revival of station supply for Balimela HEP from Balimela Grid S/S.

#### **Deliberations in the meeting**

OHPC stated that revival of station transformer to avail supply from Balimela 220/33 kV S/S will be done by end of March' 2016.

[Action: OHPC]

# D.3: Prolonged outage of transmission elements and tentative revival dates

The tentative revival dates of transmission elements are updated in the last meeting are as follows:

Sl.No	Name of transmission	Reason of outage	Probable date of revival	
	element			
1	220kV Jayanagar-Theruvali	Breaker already erected but not	January'2016	
	ckt-III breaker	commissioned. Isolator		
		problem		
2	220/132 kV, 100 MVA Auto-II		Filtration completed.	
	at Duburi		Charged within a week.	
3	132 kV Jayanagar-Sunabeda	For conversion to Double ckt	By end of March'2016.	
	line			
4	220/132 kV, 160 MVA Auto-I	Overhauling	Oil filled up. Filtration	
	at Bhanjanagar		to be taken up.	
5	220 kV TTPS-Joda ckt-I	Replacement of conductor	April'2016	
6	220 kV Meramundali-	Replacement of conductor	April'2016	
	Bhanjanagar ckt-I			

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

## (i) Installation of communication equipment by CGPs / Industries.

The status of data communication from CGPs as deliberated in the last meeting is as follows

Sl. No	Name of CGP	Present status		
1	M/s IFFCO, Outdoor commissioning work completed. RTU was locally to			
	Paradeep	After replacement of the faulty CVT, data will be integrated.		
2	M/s MSP	PLCC / RTU installed. Database has already been prepared by OPTCL.		
	Mettalicks	Final RTU integration with OPTCL system by the vendor is awaited.		
3	M/s NINL,	M/s NINL has requested for Scheme, BOQ for PLCC / SCADA, which		
	Duburi	has been forwarded by OPTCL. No action has been taken by NINL so		
		far.		
4	M/s Rohit Ferro	PLCC established and inspection by Telecom Engineers completed.		
	tech	Data base has already been prepared by OPTCL.		
5	M/s Vedanta Ltd.	Generators data remains Suspect most of the times.		
	(IPP), Jharsuguda			

In the last meeting it was decided that GCC, OPTCL may file a case before the OERC through RT&C wing of OPTCL against those CGPs not complying the data communication provisions with SLDC.

[Action: CGM (Telecom) / GCC]

# D.5. Islanding Scheme of Ib TPS

The islanding scheme for IbTPS has already been commissioned but not functioning due to non-incorporate the trip commands to the breakers at Budhipadar from the Islanding Relay. This has already been discussed in the 81<sup>st</sup> PSOC meeting, wherein Telecom wing of OPTCL assured to complete the optical fibre link, provided IbTPs allow for working in their premises. Ib TPS had also agreed to allow them. The link is yet to be completed yet.

In the last meeting it was decided that OPGC shall finalize the date and intimate to CGM (Telecom) for providing connectivity and testing.

## **Deliberations in the meeting**

Telecom stated that in the event of an islanding situation (5 Nos of situations), trip command will be generated from the islanding relay. The present status of work is as detailed.

- a. All works work for interconnection to trip the identified feeders at Budhipadar grid completed.
- b. Sending of direct trip command to Tarkera for tripping of 132 kV Tarkera-Rajgangpur ckt-I & II is done and tested.
- c. Sending of command to ramp down generation for unit-I has been tested. Testing for unit-II is yet to be done by OPGC.
- d. Ramping down through governor, assigned to M/S BHEL will take 1-2 week of time.
- e. OPTCL had requested OPGC to fix a date for simulating the test without effecting power flow, for which no response has been received.

[Action: IBTPS/ CGM (Telecom)]

# D.6: Web based drawal / generation scheduling.

SLDC is going to implement web based drawal / generation scheduling for Dist. Utilities and State generating stations including IPPs and CGPs soon. A demo has been organized on 29.07.15.

In the last meeting, CGM (IT) stated that, web based generation scheduling module for State generating stations has been already been developed by IT wing. Modules for Discom and CGP / IPP shall be made available before the next PSOC meeting. After approval by the stake holders the same shall be go live from September'15. All Users were requested to forward their respective schedule in the prescribed format.

In the last meeting IT representative deliberated that SLDC shall finalize the date for one day demonstration cum training programme at SLDC for web base scheduling. SLDC has written a letter to IT to make a demonstration at SLDC prior to finalization of the training programe.

In the last meeting CGM (IT) stated that the problems identified by SLDC have been rectified. A demo shall be given at SLDC on 4<sup>th</sup> February. After that all generators will be invited for a Demo. The Demo by IT is yet to be done.

# **Deliberations in the meeting**

CGM (IT) stated that final demo will be arranged by end of February'2016.

[Action: CGM (IT)/ SLDC]

# D.7: Implementation of Automatic Meter Reading for OPTCL-Discom interface points.

The work for Automatic Meter Reading (AMR) for all the interface points is in progress.

In the last meeting all Discoms have agreed to display the meter data on the dashboard required for analysis purpose.

In the last meeting CGM (IT) stated that from 1<sup>st</sup> March onwards the AMR shall be made "Go live". Data will be available after one hour lapses of time.

# **Deliberations in the meeting**

CGM (IT) stated that AMR data for six types of meters has been mailed to GM (SLDC) for checking and acceptance. Action will be taken after acceptance of the data.

GM(SLDC stated that required manpower is not available at SLDC for checking the data. Sr. GM (PS) stated that requisition for posting of executives at SLDC has been placed before the HR wing.

[Action: SLDC / IT]

# D.8: Software for Deviation charge billing.

Hon'ble OERC may notify "Intra State Deviation settlement and related matters" Regulation at any time. For implementation of the regulation, required software for Deviation Charge billing need to be developed and tested. CGM (IT) may take necessary steps for development of the software.

#### **Deliberations in the meeting**

CGM (IT) stated that requirement for development of deviation charge billing may be furnished by SLDC. The software shall be developed by outside agency, as, Infosys may take long time.

[Action: SLDC/IT]

# D.9: High Voltage at 400 kV Meramundali & Duburi S/S Reactive Power Injection by OPTCL

Persistent high Voltage is being observed at Meramundali & Duburi 400 kV buses. Since these buses are the inter State exchange points, Reactive power injection penalty is being charged to Gridco. It is learnt that one no of 50 MVAr line reactor at Meramundali is not functioning. O&M may take action for rectification of the same early. It may also be examined for installation of 2<sup>nd</sup> reactor at Duburi to arrest the high Voltage. Further Powergrid may be requested to shift the line reactor of the 400 kV Baripada- New Duburi-Mendhasal ckt from Mendhasal to New Duburi.

In the last meeting it was suggested for installation of additional reactor at Meramundali to control VAr injection at high Voltage conditions. Gridco may examine to approach the Commission for sharing of the penalty by the Generators / CGPs responsible for injection of VAr at high voltage condition. SLDC may monitor the VAr flow on real time basis and take all possible measures.

As per suggestion of SLDC in the 117<sup>th</sup> OCC meeting of ERPC, tap position at 765kV / 400kV Angul sub-station has been lowered as per instruction of ERLDC resulting control of voltage at Angul as well as at Meramundali sub-station, thereby reduction in reactive power injection charges.

#### **Deliberations in the meeting**

DGM Meramundali stated that Reactor at Meramundali is functioning at present

[Action: SLDC / Gridco]

#### **D.10: DISCOM Issues**

#### **CESU**

A.In the last meeting, it was decided that CESU shall approach O&M through a meeting to resolve bilateral issues. The discussion in the meeting may be placed in the next PSOC meeting.

B.

- (i) Mismatch of SCADA drawal with the billing meter data to the tune of 23 MU during December 15.
- (ii) Fixed data indicated on dashboard may be linked with SCADA.
- (iii) Interruption of RVDU data. mismatch in dashboard and RVDU data.

#### **WESCO**

- (i) Import of Solar projects is yet to be deducted from BSP bill of WESCO.
- (ii) Frequent interruption of RVDU data causes monitoring problem. Dashboard may be kept in parallel operation along with RVDU.
- (iii) Open Access, S/S Drawal and major EHT consumer drawal may be incorporated in the RVDU.

#### **NESCO**

ABT Dashboard is not working since January-16 till date. So, necessary action may kindly be taken for rectification. When RVDU data is not coming, Dashboard data is essential to monitor.

#### **Deliberations in the meeting**

CGM (Telecom) stated that due to transition period the data mismatch may be continue for 1-2 months. The Discoms may collect the data from SLDC through their representatives deployed at SLDC. BSNL link is not stable at NESCO, due to which RVDU is not functioning properly. However M/s Chemptrol is in the job of restoration.

Director (Commercial) stated that import by solar projects shall be deducted from BSP bill.

[Action: GRIDCO / Telecom/All Discoms]

#### PART E: OPERATIONAL PLANNING

#### **E.1:** Commissioning status of New Transmission elements.

The status of commissioning of new transmission elements is as follows:

Sl. No	Transmission element details	Present Status
1	Commissioning of 220 kV Jayanagar-	Work has already been started. Expected to be completed
	Jeypore 2 <sup>nd</sup> DC line	by June 2016.
2	Commissioning of 400 kV	Line is ready and shall be charged after commissioning of
	Meramundali-Mendhasal 2nd ckt	3 <sup>rd</sup> ICT at Mendhasal, which is under progress. ICT is at
		BHEL factory
3	Commissioning of 220 kV Bidanasi-	Work in progress and expected to be completed by March
	Cuttack line	2016.
4	Commissioning of 220/132 kV	Work in progress and expected to be completed by March
	Cuttack S/S	2016.
5	Commissioning of 132 kV Baripada	Work has already been started, which will be completed by
	(PG)-Jaleswar line	June 2016.
6	Commissioning of 220/132 kV	Work under progress. Expected by September 2016.
	Kesinga S/S	

Status of Discom's action plan for power drawal from the S/Ss commissioned / expected to be commissioned in near future.

Sl.	Name of the sub-station	Probable	Name of	Action taken by
No		month of	DISCOM	Discoms
		commissioning		
1	132/33kV, 2x20 MVA Khajuriakota	March'16	CESU	Action being taken
2	220/33kV, 2x20 MVA Banei	Dec'16	WESCO Utility	Stayed by Court.
3	132/33kV, 2x20 MVA Padmapur	February'16	WESCO Utility	Line is ready
4	132/33kV, 2x20 MVA Udala	Dec-16	NESCO Utility	Line existing

CESU stated that action is being taken for construction of 33/0.4 kV S/S at Mendhasal to avail power supply for Mendhasal area.

WESCO stated that diversion of 11 kV lines from Jharusuguda S/S will be done soon.

Action: CGM (O&M)/CGM(Const.) / All Discoms]

# E.2: Energy Metering at Hydro stations.

Energy meters have already been installed at all hydro stations. Billing for all OHPC stations, except Upper Kolab, is being done from the newly installed energy meters. The energy meters at Upper Kolab are have been rectified in the mean time.

In the last meeting, OHPC stated that there are mismatch in the recording for some of the energy meters. It was decided that OHPC shall identify those meters and intimate OPTCL. GRIDCO stated that energy meter for island feeder at Burla PH is yet to be installed. OPTCL shall take necessary action for installing / testing of those meters.

## **Deliberations in the meeting**

OHPC stated that Upper Kolab and Balimela PH meters are showing error. Mismatch in Burla-Chipilima Tie line meter at both ends noticed. Rengali-TTPS feeder meter is not functioning. The meter data can be considered for billing purpose only after rectification of all defects. OHPC has already written to CGM (O&M) in this regard. It was decided that O&M shall take up the matter with the vender for rectification of energy meters.

# [Action: O&M / OHPC]

#### E.3: TTPS Issue.

#### **Implementation of Feeder Metering**

In the earlier PSOC meeting, TTPS deliberated that all the meters were tested & calibrated by the STL on 09.10.2015. The 132kV CTs for TTPS-Duburi-1 have been replaced. Further, as per the PPA dated 08.03.1995, the energy meters are to be installed at GT end. Since the meter locations will be shifted to feeders, the corresponding clause in the PPA is required to be amended. Accordingly, the proposal has been sent to the competent authority of NTPC for approval.

TTPS in their letter No.045/GGM/TTPS, Dated. 20.11.2015 addressed to CGM (PP) Gridco pointed out that, as per clause 7(1), 1<sup>st</sup> proviso of CEA (Installation and operation of Energy meters) Regulation, 2006 as amended in 2010 " for existing stations the location of Main, Check and Standby meters shall not be changed unless permitted by the Authority".

In the present case, for the first time, energy meters have been installed at the interface points, which should have been installed earlier, without changing the position of the existing meters. As such the regulation as mentioned by TTPS is not applicable. However the existing meters will be treated as standby meters.

In the last meeting, GRIDCO stated that, in response to the letter of GRIDCO, CEA has sought for some information such as location of Main, Check and Standby meters. TTPS was requested to comply those queries. OPTCL may take action for installation of feeder meters.

TTPS stated that the reply has already sent to CEA. DGM (O&M), Meramundali stated that action has been taken for installation of feeder meters at TTPS.

[Action: TTPS / O&M]

# E.4: Major Events in the month of January'16

28.01.2016: 3<sup>rd</sup> 220/132 kV, 160 MVA Auto charged at Katapali S/S.

# E.5: Important Grid Incidences during the month of January'16.

Important Grid incidents during the month of January'16 was reviewed. The incidents to be analysed and deliberated in the PCC meeting of ERPC

[Action: O&M / SLDC]

## E.6: Outage of major transmission Elements during the month of January'16. (above 10 hrs).

Outage of major transmission elements above 10 hours during the month of October was reviewed. Out of two Nos. of such outage, one is due to insulator damage.

[Action: O&M]

# E.7: Review of Outage Program of State Generators / Transmission elements for the month of February & March'2016:

Tentative Outage programme for State Generators for the month of March'2016 are as follows:

Sl.	Station	Unit	Period	Remarks	
1	Burla	# 1	26.01.16 to 24.02.16	Brake system rectification	
		# 4	25.01.16 to 24.02.16	Annual Maintenance	
		# 5	25.02.16 to 22.03.16	Annual Maintenance	
		# 6	17.02.14 to continue	Programming for R, M & U	
2	Chiplima	#3	15.02.14 to continue	Programming for R, M &U	
3	Balimela	# 1	31.01.13 to continue	TGB problem and started R,M & U	
		#8	03.03.16 to 04.04.16	Annual maintenance	
4	Upper Kolab	# 1	29.07.15 to 17.05.16	Capital Maintenance	
5	Rengali	# 5	11.02.16 to 10.03.16	Annual maintenance	
		# 3	14.03.16 to 12.04.16	Annual maintenance	
6	Upper Indravati	# 3	23.11.15 to 30.04.16	Capital Maintenance	
7	TTPS	# 5	06.03.16 to 11.03.16	ESP Work	

[Action: OHPC / SLDC]

[Action: OHPC/ SLDC]

#### E.8: Generation Program for the month of March'16.

Generation schedule for the month of March'16 furnished by OHPC are given below.

Name of Hydro Gen.	Generation Programme		Reservoir	Reservoir	MDDL	High Flood
Station	(M	W)	Level as	Level as		Reservoir
	March'16	March'16	on	on		Level
	(1 <sup>st</sup> fortnight)	(2 <sup>nd</sup> fortnight)	15.02.15	15.02.16		
HPS-I, Burla	20	20	620.89ft	621.08ft	590 ft.	630 ft.
HPS-II, Chipilima	10	10	-	-	-	-
Balimela	90	90	1503.60ft	1490.30ft	1440 ft.	1516 ft.
Rengali	40	40	120.62mt	117.78mt	109.72m	123.5 mtr.
U.Kolab	150	150	855.30mt	854.37mt	844 mtr	858 mtr.
U. Indravati	105	105	638.44mt	634.30mt	625mtr	642 mtr
MKD (O/D)	30	30	2738.05ft	2737.65ft	2685 ft.	2750 ft.
TOTAL	445	445				

As per the Action Taken Report received from Department of Energy, Govt. of Odisha, vide Letter No. R&R-71/2015/1380 dated 16.02.2016, Average generation of Upper Kolab and Indravati shall be maintained as 100 MW and 75 MW respectively.

#### E.9: Operating procedure for Odisha System.

As per provision in the Regulation 5.1(4) of Odisha Grid Code, the draft Operating Procedure for Odisha System has been prepared and uploaded in the SLDC site (path: Document⇒ information). Members were requested and forward their comments / suggestions to SLDC before 15<sup>th</sup> December

2015. No comment has been received from Members except OHPC. It is again requested to forward comments on the said procedure. The final Operating Procedure shall be placed in the next meeting.

[Action: SLDC]

# E.10: Automatic Demand Management Scheme (ADMS)- Implementation in OPTCL system.

Hon'ble CERC vide their order dated 31.12.2015 passed in Suo-motu Petition No.- 5/SM/2014 in the matter of Non-compliance of Regulation 5.4.2 (d) of IEGC directed all Respondents (SLDCs) for implementation of ADMS in their respective control area. CERC have allowed dead line till 30.06.2016 to the Respondent for implementation of ADMS. Failing which they will be liable for action under Section 142 of the Act. Copy of the order has already been forwarded to CGM (O&M) and CGM (RT&C). OPTCL may take necessary action for implementation of the same.

# **Deliberations in the meeting**

It was decided that SLDC may raise the issue in the OCC meeting and request ERLDC to provive the logic for implementation of the scheme in OPTCL system

[Action: SLDC / O&M / Telecom]

E.11: Anticipated power generation and demand for the month of March'2016.

Sl. No	Discom	Average	Peak
1	CESU	950	1300
2	WESCO	900	1200
3	NESCO	800	1000
4	SOUTHCO	400	550
5	OPEN ACCESS	200	200
6	Total	3250	4250
Availab	ility		
	Hydro	450	1400
	State Thermal	750	750
	IPP, small hydro &RE	800	800
	ISGS share (including OA)	1000	1050
	CGP support (OA)	250	250
6	Total availability	3250	4250
7	Surplus / Deficit	0	0

#### **PART F: OTHER ISSUES**

#### F.1: Other Issues

# Tripping of POWMAX feeder from Kesinga end

SLDC stated that M/s POWMAX has complained regarding frequent interruption of power supply to their industry.

#### **Deliberations** in the meeting

SLDC stated that in case load restriction, 132 kV Bolangir-Kesinga feeder is being hand tripped, interrupting power supply to M/s POWMAX industry. It was decided that only Kesinga area load may be restricted in case of contingency. Kesinga Grid shall be instructed accordingly.

#### Interruption of power supply to HINDALCO.

Hindalco stated regarding interruption of power supply to their Industry from Burla PH in case of disturbance.

# **Deliberations in the meeting**

Director (Commercial) stated that 220 kV, Katapali-Hindalco line is going to be charged soon.

[Action: O&M]

[Action: O&M / SLDC]

F.2: Date and Venue of the next (95<sup>th</sup>) PSOC meeting will be intimated.

# 94th Power System Operational Co-ordination Review Meeting [ At 11:00 A.M. on 23.02.2016] [At Power Training Center, OPTCL, Chandaka, Bhubaneswar]

SI. No.	Name	Designation	Organisation	Mobile No.	E-mail Address	Signature
1	Sor P. K. Aradhon	DIR (Com)	Gradio	9437125494	provode 30 estar	1209
2	S. P.C. Tar Pathy	C61M(02M)	OPTEL	9438907014	cgm. onme optel. ci. cn	Dogs.
3	Sai R.P. Mishaca	(GIMPETEE)	OPTEL	9438907019	ele. bpmishrall	Ane.
4	Si M. Ananta Rao	CGM(IT)	OPTEL	9438907008	cgm. it@ optcl.co. in	Ou .
5	Bai H. K. Samontaruy	C En M (Telean)	OPTEL	9438907720	tele. els. lebs @opteleo.	in Smith
6	Sizi M.R. Mohanty	GIGM SLDC	OPTEL	9438907310		Sloop
7	sai B. k. Saho	Sofin (CP)	OPTEL	9438907919	sgm. es. a optel. eo.s.	BILLO
8	En Grangadhar Patel	Bram Olm D	OPTCL	9438907823	Sgm. onm2. mrm @	23.2.1
9	SốM. K.DES	Soffm (OHPC)	OHPC	9437073301	squel wisher e	n Me hear
10	5 D. Sethy	So-SiM(OHPC)	OHPC	94371/1818	dentan acti @ yako	co. in All !
11	P. K. Das	DAM SLDC	SI-DC OPTGL	9438907408		
12	Sr: D. Patel	Dy More (ole)	NTPC	9437018453	debabratapulel Ontperio	is Duly
13	S.f. ladys	ASM EN	GCC	9438907830	Sece oftel.	9
14	Tharmendra Nally	Mange	OHPC	9778109422	Inpatra ohpca	gnail Pl
15	Prahash Kuman Potro	Manager	OHPC	9437163472	prochashperton 1963@ya	horsom toti
16	Sonloy Kumer Potre	Monester	WESCO	9437057208	Somicy abt 0 Grant com	2
17	D. R. Singl. Balm	Sr. CiM	Telecem	9438907520	tele, cle, morm	ay
18	K.T.R. ACHARY	D.C. m (1/	Telecum	9438908037	tel. Ktrachary	The Jupation
19	T. TAYADEL	EE	Souther	9437581276	abt. Souther @ gov/1.cm	Moh
20	S. K. Mishon	DGMOT	OPTEL	9438907466	tel-Sknishn @og	fr Shop
21	P. k. Saha	A.Mes.T	OFTCL	9438907252	et pesaha-Capte	lece Scho
22	Casuat Pan'	Aex-mgn.	Vædanta,	9178451772	Saewat pario	lu
23	S.K.Das	Ae, M (BL)	office	9438907316	ele santondas Opticions	ds.
24	b. K. Das	DGM(ER)	RT2C	9438907699	Ele. bkdos@optel	4/1
25	L. Nayor	GM (El.)	(0 em)	7438907801	ele. lanayak@optel.	Smoh
26	M. K. Panda	AGM	Vedanta	9777457222	manog. Panda @ vodanta. (2.19	Outmos
27	S.K. chand	Acron	vedont	9777457217	Susuka, chard @ Videnta.ci.	ser
28	Pfx Mahapatan	090	DPGC	9338715401	Porteep makapato	1 washap

SI. No.	Name	Designation	Organisation	Mobile No.	E-mail Address	Signature
29	P. K. Padhy	GM	CESV	9438676810	alt G CPACO DISAG	4
30	S.P. Pandr	Unit Head	Upper Kalab OHPC	9437055094	Symel_Ukhep & oh Pult	Sud
31	S. C. Mahalin	AGM (AT)		9438906016	Sharat mahalin	Sem
32	S.P. Mallia	9m (02P)	NESCO Utility	9438906006	Syrendra Mallion Onescoolisha com	Roller
33	SK. S. Ahmoned	AGM	GKEL	7894471082	SK. Ahmmd Gymysp	in de
34	H.K. Satapally	GM	quer	7752020405	havesh Satapo	aling They
35	S.C. Das	ACH- VI	Hindolo	9090079509	Sceret dos e adityabirta. Con	Lux
36	Temorale Salin	GN	SLDC.	9438907403	V	4
37	U.N. Mishon	CEMCPE	Gradu	9438907774	Sgon. Magrido. co.in	01.
38	P.K. Mishra	GM	STDC	9438907402		)m/
39	5.k. Das	Conscultant	SLDe	9437000261	S. Som byshan @ rediffin	wen Selle.
40	Archana Saha	Manager	sloc	9438907400	archay fal Dyelos	
41						
42	1955.9.50			[1715 [9]		1877 P.L.
43						
44		* - * E	ce contract			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
45			-	/s.#1		
46						
47						1
48		- 1 × 1				
49	200					
50	t. g					-,13,
51		1.15	7 - 6-7 27 51 50			6.6.4
52	Assembly and the second			Complete Company		
53					8	
54						
55	1					