

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 /

3990(43)

Dated: 24.10.2016

From:

The Chief Load Despatcher
SLDC, OPTCL, Bhubaneswar-17.

To:

As per distribution list

Sub: Minutes of 101st PSOC meeting held on 29.09.2016 at Hotel Mayfair Lagoon, Bhubaneswar

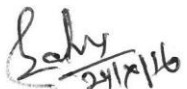
Sir,

Please find enclosed herewith the minutes of 101st Power System Operational Co-ordination meeting held on 29.09.2016 at Hotel Mayfair Lagoon, Bhubaneswar.

This is for your information & necessary action.

Encl: As above

Yours faithfully;


24/10/16
Chief Load Despatcher,
SLDC, OPTCL

Copy along with enclosures forwarded to the Executive Assistant to CMD, Gridco / OPTCL for kind information of CMD.

Distribution list

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

Minutes of 101st PSOC meeting held on 29.09.2016 at Hotel Mayfair, Bhubaneswar

List of participants is at Annexure.

Chief Load Despatcher, SLDC, OPTCL welcomed all the participants to the 101st Power System Operational Coordination meeting and highlighted the system performance during the month of August'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 100th PSOC meeting held on 27.08.2016

The minutes of meeting was circulated vide letter No. SGM (PS)-PI-15/2015/3628⁽⁴³⁾ dated 15.09.2016 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 been received from the members, the minutes of 100th 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 August'2016.

(A) Frequency

It was noticed that, during the month of August'16, **77.06** % of times the frequency remained in the IEGC band i.e. 49.90Hz - 50.05Hz in comparison to **80.09** % during the month of July'16. The maximum and minimum System frequency during the month was **50.23 Hz & 49.76 Hz** respectively.

(B) Grid demand

Grid demand for the month of August'16 was reviewed. The average consumption during the month was **3146 MW**. The maximum System demand of **4105 MW** occurred on **29.08.16** at 22:00 Hrs and minimum demand of **2307 MW** occurred on **10.08.16** at 14:00 Hrs.

Deliberation in the meeting

It is observed that the average demand during the month of August' 16 has been decreased by 93 MW while the peak demand was increased by 33 MW from that of July'16. The average energy consumption during the month has been decreased by 110 MW in comparison to August'15. The energy consumption has been decreased due to adverse weather during the month.

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

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

Deliberation in the meeting:

The maximum Voltage of **241.61** kV occurred at Jaynagar 220 kV bus while Narendrapur, 220 kV bus has experienced the minimum Voltage of **179.15** kV. Bus Voltages at Samgara and Lapanga could not be incorporated due to non availability of energy meter in those sub-stations. The cause of high voltage at 220kV bus at Joda needs to be investigated by O&M.

O&M stated that tendering process will be done again for procurement of Energy Audit meters. Narendrapur Voltage profile can be improved after charging 220 kV bus of Pandiabili PG S/S.

[Action: CGM (O&M)]

(D) Loading of 220/ 132 kV Auto at 220 kV S/Ss in OPTCL system for the month of August'16.

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 tendering for procurement of Energy Audit meters will be done again due to single bid.

[Action: CGM (O&M)]

(E) DISCOM Drawal during the month of August'16

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

Deliberation in the meeting:

It was noticed that WESCO Utility had overdrawn 8.625 MU followed by SOUTHCO 3.274 MU. NESCO had under drawn 5.416 MU during the month, while CESU was almost in the schedule during the month.

WESCO Utility stated that they had overdrawn due to post-facto revision of Open Access import in their schedule.

SLDC stated that the WESCO / Other Dist. Utilities may come to SLDC with such instances for discussion.

[Action: All Distribution Utilities / SLDC]

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

Energy generation and exchange during the month of August'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 **2340.89** MU.

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

The drawal of Machhakund power during the month of August'16 was **30.816** MU against AP drawal of **31.871** MU.

In the 100th PSOC meeting:

SLDC stated that proposal for procurement of RVDU has been approved by CMD. C.G.M (Telecom) may take necessary action in this regard. High level meeting for discussion of Machhakund issue is yet to be held.

Deliberations in the meeting:

CGM (Telecom) stated that negotiation with M/s Chemtrol for issue of advance payment is under process, which is likely to be resolved within a short time. DGM, Upper Kolab stated that Principal Secretary, Energy had visited Machhakund PH and discussed the issue for drawal of State’s share. The date for high level meeting for Machhakund issue is yet to be finalized. Southco may explore the possibilities of inducting more 33 kV feeders in Machhakund system.

[Action: Sr.GM (O&M)-I / OHPC / Southco / Gridco / SLDC]

(H) Under Frequency relay operation in OPTCL System during the month of August’16.

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

(I) Status of Open Access applications during the month of August’2016

Status of Open Access Applications received and disposed by SLDC was reviewed.

PART C – Issues raised in the 124th OCC meeting of ERPC to be held on 23.08.2016

C.1: Status of projects funded under PSDF schemes

In the PSDF review meeting held on 29.04.16 at N. Delhi, it was advised to RPCs to monitor the status of all the projects funded by PSDF. Therefore, constituents are requested to update the status of projects which are being funded by PSDF in the desired format. The latest status as updated by OPTCL is as given below:

Sl No	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	Amount Approved (in Rs.)	Amount drawn till date (in Rs.)	Status as updated in 122 nd meeting
3	OPTCL	Renovation & Up-gradation of protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies.	11.05.15	10.05.17	162.5 Cr.	4.91 Cr.	Erection work of the already procured equipment is going on. LOA for eight different types of Testing equipment already placed worth about Rs.4 Cr. Placement of LOA for balance equipment is under process. Tender for Sub-station automation will be floated in July 2016.

Deliberations in the meeting

O&M stated that Tender for Sub-station automation will be floated after finalization of strategy.

[Action: CGM (O&M)]

C.2: Persistent under-generation and inappropriate operational methodologies vis-à-vis Grid requirements in operation of Vedanta, Jharsuguda

It has been observed Vedanta is operating in a manner not consistent with Grid requirements by resorting to the following:

- a) Persistent under-generation below schedule.
- b) Shifting of units from CTU Bus to STU Bus in an inappropriate manner, by incorrect declaration regarding reasons for tripping of the units (at CTU side) and hence getting the STOA revised and immediately thereafter re-synchronizing the unit back to the STU side.

Deliberations in the meeting

Vedanta Ltd stated that

- a. Three nos of their units will be connected with the State Transmission System.
- b. Switchyard modification will be completed by the end of November’2016.
- c. Communication with Meramundali S/S will be done by 15th October’2016
- d. CGM (O&M) stated that Vedants Ltd. should apply to the STU for keeping three nos. of units in the State network.

[Action: Vedanta Ltd / O&M]

C.3: Restoration of PLCC system of important lines

In 119th OCC, JUSNL informed that the following:

d) In 220 KV Ramchandrapur-Joda line auto-reclosure has been enabled and termination done in PLCC panels at Ramchandrapur end but due to non-availability of PLCC panels at Joda (OPTCL) end the A/R and PLCC scheme could not be implemented.

Further, it was informed that JUSNL is ready to share their standby PLCC panels (BPL make) with WBPDCCL (for Snataldih end) and OPTCL (for Joda end) to complete the PLCC schemes of both the above lines.

In 33rd ERPC Meeting, WBPDCCL and OPTCL agreed to settle the issue bilaterally with JUSNL. JUSNL was advised to resolve the AMC related issues with West Bengal & Odissa. All are requested to inform the development to CERC.

However ERPC advised JUSNL, OPTCL and WBPDCCL to get the PLCC system restored for both the lines by July 2016 positively.

Subsequently, a special meeting was convened by JUSNL on 11.07.2016 at Ranchi to resolve the issue at the earliest.

In 123rd OCC, OPTCL informed that they received the invoice from BPL and they are charging Rs. 1.8 lacs / year for AMC, which is not reasonable as the AMC charges for 5 years is more than the panel cost of Rs.5.1 lacs.

In 124th OCC, WBPDCCL informed that PLCC panels will be delivered by BPL in September’16.

OPTCL informed that they agreed to the BPL estimate and placing the order.

In the 100th PSOC meeting, CGM (Telecom) stated that approval for procurement of panel has already been obtained from CMD, OPTCL. Order will be placed by next week.

It was deliberated in the OCC meeting of ERPC that order has been placed as intimated by CGM (Telecom.).

Deliberations in the meeting

CGM (Telecom) stated that M/S BPL is asking 100 % payment, which needs to be approved by CMD. Also M/s BPL is claiming commissioning charges at Joda as well as at JUSNL end. However, they have agreed for commissioning charges at Joda end only. Order will be placed after completion of the above.

[Action: CGM (Telecom)]

C.4: Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)

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OPTCL informed that MCR test of Ind-Bharath generator was not satisfactory and they will communicate their observations.

.....

In 124th OCC, Ind-Bharath informed that ROW problem has been resolved and the stringing of the remaining 1 km stretch of dedicated line is in progress. The dedicated line will be commissioned in another one month after necessary testings and Inspectorate’s approval of the line & associated bays.

.....

OCC, in line with the ERPC directions decided that the IBEUL will not be allowed to inject any power though LILO of 400 kV D/C Raigarh-Rourkela Ckt-I

Subsequently, GRIDCO vide letter dated 19.08.16 informed that the MCR test of the 350 MW unit #1 of IBEUL has failed for its Name Plate capacity. However, IBEUL may go for de-rating of their unit capacity or repeat trial run as per the provisions of IEGC.

IBEUL vide letter dated 02.09.2016 had declared their unit under COD with **derated capacity of 339.6 MW w.e.f. 19th July, 2016.**

In the 125th OCC meeting the derated capacity of 339.6 MW was accepted by ERPC with effect from 20.07.2016.

Deliberations in the meeting

CGM (PP) stated that the dedicated line between the IPP and State network is yet to be done. Gridco shall propose the Government to revise the PPA for import of State's share through CTU system.

[Action: GRIDCO]

C.5: 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s
PGCIL has already commissioned the 2x315MVA 400/220kV Bolangir S/s by LILOing of 400 kV 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.

In 124th OCC, 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.	Only 7 towers left (Severe ROW problem as those locations are inside Bolangir town). By Dec, 2016.
b.	LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S.	Charged on 04.05.16
2.	400/220 kV Keonjhar S/S.	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	By December 2016
b.	Keonjhar (PG)-Turumunga (OPTCL) 220 kV D/C Line.	To be connected to 220/132 kV S/S Turumunga. By 2019
3.	400/220 kV Pandiabil Grid S/s	
a.	Pratapsasan(OPTCL)-Pandiabil (PG) 220 kV D/C line	December 2017
b.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	December'2016

[Action: CGM (Const)]

C.6: 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 100th PSOC meeting, CGM (IT) stated that Techno-commercial bid for appointment of consultant has been opened and under scrutiny. Price bid will be opened during the month of August'2016.

Deliberations in the meeting

CGM (IT) stated that the price bid has already opened. Order for appointment of consultant is expected to be placed within 10 days.

[Action: CGM (IT)]

C.7: Certification through BIS as per IS 18001:2007 to all generating/ transmission units.

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

In 85th 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 100th PSOC meeting CGM (O&M) stated that BIS have not responded. OPTCL is examining to go for tender.

Deliberations in the meeting

O&M stated that “Expression of Interest” for providing consultancy has been floated

[Action: CGM (O&M)]

C.8: Implementation of Automatic Demand Management Scheme

OPTCL vide mail dated 24.02.2016 pointed that Hon’ble CERC vide their order dated 31.12.2015 passed in Sou-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 implantation 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.

In response to the offer for providing consultancy for implementation of ADMS, two numbers firms have given presentation on dated 03.06.16 at PTC, Chandaka.

Subsequently, one of the above participants has responded to the financial bid which is under scrutiny.

A team of officers had visited Gujarat SLDC on 30.08.2016 to observe the implementation of ADMS in their State. It was found that a separate type of RTU known as “**Client RTU**” has to be installed in the grid sub-stations where the pre identified 33kV feeders (to be isolated under ADMS) are located. These are in addition to the existing RTUs. One ADMS server shall be installed at SLDC which will acquire data from SCADA server to compare the over drawal of the State and Discoms and send the signal to the client RTU for isolation of the pre identified 33kV feeders. Since, all these activities are related to SCADA & communication, Telecom wing need to be involved for implementation of the scheme. A team is to be constituted with Telecommunication, SLDC & OPTCL Engineers for this purpose.

Only WESCO & NESCO have submitted their identified feeder list.

Deliberations in the meeting

It was decided that a team shall be constituted with Telecommunication, SLDC & OPTCL Engineers for examining the Gujarat model of ADMS implementation.

CESU and Southco have ensured to identify 33kV feeders to be incorporated in the ADMS.

[Action: All Discoms / CGM (Telecom) / SLDC]

C.9:Tie bay of 125MVAR Bus reactor and 400kV Indravati-Indravati and Indravati(PG):

Under outage wef 18/03/16 due to R-Ph pole bursting of Tie CB. Due to non-availability of the tie bay, the Buses are coupled only via the tie bay of 400kV Rengali-Indravati and 400kV Indravati- Jeypore at Indravati and any outage of the lines would result in decoupling of the Buses.

As per the minutes of special meeting convened by Member Secretary, ERPC for resolving O&M issues between OPTCL, OHPC and POWERGRID for lines, bays and equipment held on 17.06.2016, “ 400kV

bays (2nos.) Odisha bays in POWERGRID 400kV Indravati sub-station – POWERGRID will carry out routine O&M for the bays.”

In the 125th OCC meeting of ERPC, this issue was raised by POWERGRID.

Deliberations in the meeting

CGM (O&M) stated that O&M has taken up the work for installation of tie breaker. A meeting will be convened for taken over of the line after joint inspection.

[Action: CGM (O&M)]

C.10: Installation of PMUs in Eastern Region under URTDSM project

In the 125th OCC meeting of ERPC, it was deliberated that POWERGRID has to give the name of the sub-stations of OPTCL where it has been planned for installation of PMU.

Deliberations in the meeting

O&M stated that the list of S/Ss where PMU to be installed have been identified. POWERGRID have to give prior intimation to O&M and authorize the person to whom they have entrusted the work.

[CGM (O&M) / POWERGRID]

C.11: Mock Black start exercises in Eastern Region

Mock black start exercise in respect of Rengali is to be carried out on 05.10.2016.

Deliberations in the meeting

It was decided that the mock black start exercise for Rengali PH will be done on 5th October2016

[Action: OHPC / SLDC]

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 **August’16** was reviewed.

It is noticed that WESCO had overdrawn to the tune of 8.625 MU followed by SOUTHCO to the tune of 3.274 MU while NESCO has under drawn 5.416 MU. CESU was almost in the schedule.

Deliberations in the meeting.

WESCO Utility stated that due to post-facto incorporation of import by their embedded industries through open access transaction, they could not monitor their drawal correctly. All the Discoms were advised to discuss the issues with SLDC to comply their drawal schedule to maintain grid discipline and security.

[Action: SLDC / All Discoms]

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.

In the 100th PSOC meeting Southco stated that the meter at Balimela feeder will be installed within a week time. Metering issue of Balimela and Upper Indravati Colony consumption will be discussed with OHPC.

Deliberations in the meeting

Southco stated that the meter at Balimela feeder has already been installed. OHPC may draw power for their auxiliary requirement.

[Action: SOUTHCO / 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 element	Reason of outage	Probable date of revival
1	400kV Meramundali-Mendhasal ckt.	Tower Collapse at Loc-180, 181 & 182	December 2016

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

D.4: Communication issues

Installation of communication equipment by CGPs / Industries.

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

Sl.	Name of CGP	Present status
1	M/s IFFCO, Paradeep	Outdoor commissioning work completed. RTU was locally tested. After replacement of the faulty CVT, data will be integrated.
2	M/s MSP Mettalicks	PLCC / RTU installed. Database has already been prepared by OPTCL. Final RTU integration with OPTCL system by the vendor is awaited.
3	M/s NINL, Duburi	M/s NINL has requested for Scheme, BOQ for PLCC / SCADA, which has been forwarded by OPTCL. No action has been taken by NINL so far.
4	M/s Rohit Ferro tech	PLCC established and inspection by Telecom Engineers completed. Database has already been prepared by OPTCL.
5	BPSL	No kV
6	CONCAST	No kV/Hz.
7	BSL	No Hz & status data.
8	JSL	No Bus kV / Hz (for Bus-2)
9	TSIL	No data
10	VISA	CB & Status data are not available
11	Paradeep	Data not available at ERLDC
12	Bolangir (New)	Data not available at ERLDC

It was also 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.

It was also 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.

Deliberations in the meeting

CGM (Telecom) stated that NINL has agreed to extend communication system with SLDC. He also stated that CERC is going to notify Communication Regulation soon. He further stated that the optical fibre between Meramundali-Kaniha was cut due to construction work, resulting interruption of data communication. Construction wing should intimate the shutdown work along with the tower schedule for keeping provision of optical fiber wire.

[Action: GCC / O&M / Const. / RT&C/ C.G.M. (Telecom.)]

D.5: 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.

SLDC had organized training on web based scheduling on 11.05.2016 for all the CGPs connected with OPTCL network. The feedback of the CGPs has been forwarded to IT wing.

In the 99th PSOC meeting CGM (IT) stated that the issues identified by SLDC have been resolved.

In the 100th PSOC meeting, SLDC stated that some issues are still pending to be resolved. CGM (IT) stated that all issues shall be sorted out by end of September'2016. The web based scheduling may be implemented from 1st October'2016.

It is observed that all the issues are yet to be resolved. The scheduling shall be implemented only after resolve of all the issues followed by a demo. IT wing may give a cut-off date in this regard.

Deliberations in the meeting

IT stated that the issues raised, has been rectified on 27th September. SLDC may fix a date for demo during 1st week of October. They have also posted one "Help" document.

[Action: CGM (IT) / SLDC]

D.6: 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.

It was deliberated that that from 1st March onwards the AMR shall be made “Go live”. Data will be available after one hour lapses of time.

In the 100th PSOC meeting CGM (IT) stated that by end of August’2016 testing of all meters of CESU control area will be completed for billing purpose. SLDC may check August data from both the meters.

Meter data for the previous month need to be received by SLDC on 1st day of the month. M/s TCS may ensure submission of the same.

Deliberations in the meeting

DGM (IT) stated that out of 41 Nos. of CESU S/Ss, testing of data for 20 Nos S/S have been done. SLDC stated that IT may ensure availability of 60 Nos S/S data by 2nd October.

[Action: SLDC / CGM (IT)]

D.7: 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.

In the 100th PSOC meeting CGM (IT) stated that M/S Infosys contract need to be closed before award of contract to any other Vender. SLDC shall issue a certificate for Infosys activity indicating the items completed.

Deliberations in the meeting

CGM (IT) stated that memorandum for closure of M/S Infosys contract will be placed in the next BoD meeting of OPTCL. After closing the contract, fresh tender can be floated.

[Action: SLDC /CGM (IT)]

D.8: RSP Issues

1. Repeated power disturbances at Tarkera Grid Substation
2. Connectivity permission to connect 1X250 MW generating unit under expansion of CPP II (NSPCL)

Deliberations in the meeting

RSP stated that from 17th to 22nd August six nos. of grid incidents took place with total power interruption at Tarkera Grid on bus bar protection operation. CGM (O&M) stated that EMR, Rourkela have been instructed to examine the function of Bus bar protection scheme. RSP may approach O&M for their generating unit.

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

D.9: Jindal Stainless Issues

Jindal Stainless Limited is undergoing restructuring with separation into three different entities at Jajpur Plant and necessary approval support is required for the smooth operation of plant.

Deliberations in the meeting

It was decided that O&M may convene a separate meeting to discuss this issue.

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

D.10: Charging of Bangiriposhi Grid sub-station

Bangiriposhi grid sub-station is ready for charging by making LILO of 132kV Baripada (PG)-Rairangpur ckt. Telecom Wing / O&M may take necessary action for SCADA integration & metering.

Deliberations in the meeting

CGM (Telecom) stated that communication equipments have been installed and RTU wiring completed. Testing of PLCC has done locally. On line testing will be done after making the line through. ERLDC will be intimated after commissioning of the RTU.

[Action: CGM (Telecom) / SLDC]

D.11: Power supply to Railway Traction from Rayagada grid sub-station

In the earlier meeting, it was decided to extend power supply to Railway traction sub-station from Theruvali grid instead of Rayagada as most of the times Rayagada load is being fed from Machhakund PH. Also, there are frequent changeovers of Rayagada to provide matching load for Machhakund share. Due to the above, there may be frequent interruption of power to traction.

Deliberations in the meeting

CGM (O&M) stated that Railway may not bear frequent interruption of power to their traction S/S due to changeover of area load to the traction bus section. As a result of which, State's Machhakund share may not be availed fully. CGM (Const) may examine the issue.

[Action: CGM (O&M)]

D.12: DISCOM Issues

CESU

A. CESU has identified technical issues relating to early completion of ongoing S/Ss, augmentation of EHT S/S capacity, conversion of S/C line to D/C, bay extension at different S/Ss etc.

B.

- (i) Mismatch of SCADA drawal with the billing meter during August'16.
- (ii) Fixed data indicated on dashboard may be converted to variable for accurate drawal display.
- (iii) Suspected data of ESSAR, BPPL, OPCL, IMFA- I & II
- (iv) Instant implementation of schedule revision.
- (v) Power flow Atri to Narendrapur through 220kV circuit is not being deducted from CESU drawal.
- (vi) Installation of 0.2 accuracy class meters for SCADA.

Deliberations in the meeting

It was deliberated that CESU may take up the technical issues with CGM (O&M) / CGM (Const), OPTCL. SLDC stated that the fixed data of 33 kV Inter Discom feeders shall be changed after integration of those 33kV feeders with SCADA. The revision of drawal schedule shall be done as per OGC Regulation. SCADA data is being captured from the output of CT & PT, so accuracy Class of meter does not play any role in SCADA. CESU may instruct their officers deployed at SLDC to point out any discrepancy in data if noticed, immediately to the telecom shift person at SLDC.

[Action : CESU]

NESCO

1. Instant implementation of downward schedule revision in line with upward revision to know the co-relation between schedule and drawl.
2. In case of shut down of one Auto of a grid, the other Auto reflects no reading.
Ex: On dated 23.09.16, Auto-II of Balasore grid shows no reading while Auto-I being shutdown.
3. Provision of online recording of drawl data for NESCO Utility on real time basis.
4. Sum of OA schedule given by SLDC on daily basis of a month is no match with final OA schedule given by SLDC of that particular month at the month end.

Deliberations in the meeting

SLDC stated that the revision of drawal schedule shall be done as per OGC Regulation. It was decided that SLDC will look after the discrepancies in daily and final schedule. Telecom will rectify the data related problems.

[Action: SLDC / NESCO / Telecom]

SOUTHCO

A. SOUTHCO has identified technical issues relating to bay extension at different S/Ss, simultaneous tripping of 33kV breakers at load end and grid substation end (33kV Balimela-Malkanagiri ckt.) .

B.

- i. Recording of Apex meter reading at grid sub-stations
- ii. Energy bill is prepared on actual drawal by Gridco and simultaneously Deviation charge is being prepared by SLDC.

Deliberations in the meeting

Southco may take up the technical issues with O&M directly. Southco may collect their drawal data from their respective Grid S/Ss. The energy bill is being prepared as per the decision in the management levels.

[Action: SOUTHCO]

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-Jeypore 2 nd DC line	Work has already been started. Expected to be completed by December' 2016.
2	Commissioning of 400 kV Meramundali-Mendhasal 2nd ckt	Line is ready and shall be charged after commissioning of 3 rd ICT at Mendhasal, which is under progress. ICT is at BHEL factory. Expected by March'2017.
3	Commissioning of 220 kV Bidanasi-Cuttack line	Work in progress and expected to be completed by August' 2016.
4	Commissioning of 220/132 kV Cuttack S/S	Work in progress and expected to be completed by August' 2016.
5	Commissioning of 132 kV Baripada (PG)-Jaleswar line	Work has already been started, which will be completed by March 2017.
6	Commissioning of 220/132 kV Kesinga S/S	Work under progress. Expected by December' 2017.

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

Sl. No	Name of the sub-station	Probable month of commissioning	Name of DISCOM	Action taken by Discoms
1	132/33kV, 2x20 MVA Khajuriakota	July' 16	CESU	Action being taken
2	220/33kV, 2x20 MVA Banei	Dec' 17	WESCO Utility	Stayed by Court.
3	132/33kV, 2x20 MVA Udala	Dec-17	NESCO Utility	Line existing
4	132/33 kV, 1x12.5 MVA, Mania	Charged	CESU	33 kV line not done by CESU

WESCO shall take action for diversion of 11 kV lines from Jharusuguda S/S.

[Action: CGM(O&M) / CGM(Const.) / All Distribution Utilities]

E.2: Energy Metering at Hydro stations.

Energy meters have already been installed at all hydro stations. Billing for all OHPC stations is being done from the newly installed energy meters.

On completion of the above energy accounting for hydro stations will be taken up by SLDC.

In the 100th PSOC meeting, OHPC stated that TTPS feeder meter at Rengali PH is yet to be changed. All check meters at Balimela PH is showing erratic reading.

O&M may take necessary action for rectification of the meters at those hydro stations, so that energy accounting for hydro stations will be taken up by SLDC.

Deliberations in the meeting

OHPC stated that TTPS feeder meter at Rengali PH is yet to be changed. Sr. G.M. Indravati PH stated that ICT-II meter at Indravati is not recording correctly.

O&M may take necessary action for rectification of the meters at those hydro stations, so that energy accounting for hydro stations will be taken up by SLDC.

[Action: O&M / GRIDCO / OHPC/ SLDC]

E.3: Major Events in the month of August’16

No report of major event has been received by SLDC.

E.5: Important Grid Incidences during the month of August’16.

There was only one Grid incident occurred at Tarkera Grid due to heavy lightning and thunder causing tripping of all feeders.

[Action : O&M]

E.6: Outage of major transmission Elements during the month of August’16. (above 10 hrs).

Outage of major transmission elements above 10 hours during the month was reviewed. Most of the outages are due to conductor snapping and jumper snapping.

E.7: Review of Outage Program of State Generators / Transmission elements for the month of October’16:

Tentative Outage programme for State Generators for the month of **October’2016** are as follows:

Sl.	Station	Unit	Period	Remarks
1	Burla	# 2 # 6	22.07.16 to 31.10.16 17.02.14 to continue	Capital Maintenance Under R, M & U
2	Chiplima	# 3	15.02.14 to continue	TGB problem and started R,M & U
3	Balimela	# 1	31.01.13 to continue	TGB problem Programming for R,M & U
4	Upper Kolab	# 1	11.09.16 to 14.10.16	Stator inter turn fault
4	TTPS	# 3	18.09.16 to 03.10.16	Boiler overhauling

[Action: OHPC / SLDC]

E.7: Generation Program for the month of October’16.

Generation schedule for the month of October’16 furnished by OHPC are given below.

Name of Hydro Gen. Station	Generation Programme (MW)		Reservoir Level as on 01.09.15	Reservoir Level as on 01.09.16	MDDL	High Flood Reservoir Level
	Oct’16 (1 st fortnight)	Oct’16 (2 nd fortnight)				
HPS-I, Burla	150	150	624.95ft	620.29 ft	590 ft.	630 ft.
HPS-II, Chipilima	45	45	-	-	-	-
Balimela	200	200	1484.70 ft	1497.10 ft	1440 ft.	1516 ft.
Rengali	200	200	119.15 mt	121.54 mt	109.72m	123.5 mtr.
U.Kolab	105	105	851.06 mt	854.10 mt	844 mtr	858 mtr.
U. Indravati	250	250	630.86 mt	631.91 mt	625mtr	642 mtr
MKD (O/D)	40	40	2728.50 ft	2737.90 ft	2685 ft.	2750 ft.
TOTAL	990	990				

[Action: SLDC / OHPC]

E.8: Anticipated power generation and demand for the month of October'2016.

Sl. No	Discom	Average	Peak
1	CESU	1000	1450
2	WESCO	900	1150
3	NESCO	850	1000
4	SOUTHCO	420	500
6	Total	3300	4100
Availability			
1	Hydro	990	1500
2	State Thermal	750	750
3	IPP, small hydro &RE	750	710
4	ISGS share (including OA)	850	1000
5	CGP support (OA)	150	150
6	Total availability	3490	4110
7	Surplus / Deficit	190	10

[Action: SLDC / OHPC]

PART F: OTHER ISSUES

F.1: The meeting was ended with vote of thanks to all the members and M/s Vedanta Ltd, Jharsuguda for organizing the meeting.

F.2: Date and Venue of the next (102st) PSOC meeting.

The date and venue of 102nd PSOC meeting will be intimated.

101st Power System Operational Co-ordination Committee Meeting
[At 10:30 A.M. on 29.09.2016]
[At Hotel Mayfair, Bhubaneswar]

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