


भारत सरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति बेंगलूर- 560 009				Government of India Central Electricity Authority Southern Regional Power Committee Bangalore- 560 009	
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सं/No.	SRPC/SE(O)/138 th OCC/2017-18	दिनांक/ Date	30.11.2017		

सेवा में / To: संलग्न सूचि के अनुसार / As per enclosed list

प्रचालन समन्वय समिति की 138 वी बैठक की कार्यसूची ।

AGENDA FOR THE 138th MEETING OF THE OPERATION COORDINATION COMMITTEE

महोदय / Sir,

दक्षिण क्षेत्रीय विद्युत समिति की प्रचालन समन्वय समिति की 138 वी बैठक दिनांक 11 दिसंबर 2017 (सोमवार) विजयवाड़ा, आंध्र प्रदेश में आयोजित होगी। बैठक की कार्यसूची आपके अवलोकनार्थ हमारा वेबसाइट www.srpc.kar.nic.in में अपलोड किया गया है।

समीक्षा तैयार करने हेतु आपकी प्रणाली से संबंधित आंकड़े को कृपया दिनांक 4 दिसंबर 2017 तक भेजने की कृपा करें।

The agenda for the 138th Meeting of the Operation Coordination Committee to be held on 11th December 2017 (Monday) at 1000 hrs at Vijayawada, Andhra Pradesh, is uploaded in our office website www.srpc.kar.nic.in for your perusal.

Kindly arrange to send the data in respect of your system latest by 4th December 2017 (Monday) to enable this office to prepare review sheet etc.

भवदीय / Yours faithfully



(असित सिंह / ASIT SINGH)

अधीक्षक अभियंता

SUPERINTENDING ENGINEER

Southern Regional Power Committee Bengaluru
Agenda for the 138th Meeting of Operation Coordination Committee
to be held at Vijayawada, on 11th December 2017

1 Confirmation of the Minutes of the 137th Meeting of OCC of SRPC held on 10th November 2017 at MAPS, Kalpakkam.

2 Monthly Outage Plan/ Annual Outage Plan

2.1 ISGS/CGS: Generating Units

- a) Shut Down Proposals for December 2017/January 2018
- b) Shut Down carried out during November 2017 along with reason for deviation, if any.

2.2 ISTS/State Sector Transmission Lines and Elements

- All utilities are to submit the S/D proposals for the subsequent month by 3rd of the current month. Shutdown requests for the same month needed to be avoided. An outage coordination group had been created (sr_outage_coordiantion@googlegroups.com) for review of the previous OCC approved shut downs (construction/critical).
- **Non-availing the OCC approved shut downs**
SRLDC to furnish the approved vs availed percentage of shut down approved for November 2017. States/Utilities to furnish the reasons for Non availing the shutdown.

3 LGBR for upcoming five months

3.1 The following details to be furnished for discussion:

- Schedule of Hydro, Thermal Generation, RES, Purchases, Anticipated Consumption etc.
- Shortfall/Surplus, if any and how the same is proposed to be met.
- Arrangements to meet the Demand and Energy surplus/deficit.
- Status review of Development of State of the Art load forecasting tools as per clause 5.4.2 of IEGC.
- Load Generation Balance in real time.

(Item No.3 of enclosed SRLDC letter dated 29.11.2017)

3.2 LGBR for upcoming five months & TTC/ATC computations

3.2.1 All states were requested to furnish PSSE base case for April 2018.

The following details are to be updated:

State	5 months LGB	Converged PSSE Base case	ATC/TTC Computation furnished to SRLDC	ATC/TTC Computation posted on SLDC website	Nodal Officer details
AP					
TS					

KAR	Being Furnished				
TN					
KER					

(Item No. 3 of enclosed SRLDC letter dated 29.11.2017).

4 Review of Power Supply Position /Inflows

Constituents/ Generators to furnish the reasons for deviation:

- Actual with respect to anticipated (MW & MU) for availability and *requirement*.
- Generation variation category wise with respect to MoP targets/LGBR figures.
- Inflows (MU) to major reservoirs: Actual w.r.t. 10 year moving average and w.r.t. same month last year.
- Reasons for demand -supply gap and its variation

5 MAJOR ISSUES

5.1 **Coal Status**

- As per the Coal Report available at CEA website the coal status as on 27.11.2017 is as follows:
AP: Krishnapatanam: **1 day**, VTPS: **1 day**, TPCIL: 5 days, RTPS: **1 day**, HNCPL:-4 days
TS: KTPP: 31 days, KTPS: 17 days, KTPS New: 14 days
KPCL: RTPS: **3 days**, BTPS: **0 days**
TN: Mettur TPS: 6 days, Mettur Stage II: 13 days, NCTPS: 5 days, Tuticorin TPS: 8 days
ISGS: NTPC: (Simhadri: **1 day**, Kudgi-8 days, Ramagundam: **2 days**, Talcher STPS: 4 days), NTPL (JV): **3 days**, NTECL (Vallur) : **0 day**
- From the daily PSP Report of SRLDC for 28.11.2017 it was observed that the following units are under shut down due to Coal Shortage.
 - Bellari TPS Unit II from 01.11.2017, Krishnapatanam Unit I from 23.11.2017 and Unit II from 14.11.2017, Mettur TPS Unit I from 25.11.2017, VTPS Unit II from 10.10.2017.
- The coal position at AP and KPCL generators are quite alarming. All ISGS stations except Kudgi (NTPC) are in a critical coal stock position. NTECL had informed that they are using carpet coal at present.
- It is kindly requested all the concerned to kindly furnish the action taken to improve the coal stock to SRPC/SRLDC.
- As suggested in the 137th OCC Meeting SRPC vide letter dated 13.11.2017(**Annexure-5A**) had taken up the issue of critical coal stock position with Secretary, Power, MOP.
- SRPC vide letter dated 22.11.2017 (**Annexure-5B**) had requested that the matter regarding maintenance of low coal stock by ISGS Stations whose Tariff is approved by Hon'ble Commission may kindly be arranged to be examined.
- Some of the issues raised by generators had been communicated to FM, Division CEA by SRPC vide letter dated 17.10.2017. Reply received from FM, Division CEA vide letter dated 20.11.2017 is at **Annexure- 5C**.
- NTPL vide letter dated 09.11.2017(**Annexure-5D**) had requested CEA to review the criteria of criticality for NTPL coal stock position as 15 days for critical and 9 days for super critical considering the geographical location of Tuticorin and the extra lead time requires for

reaching coal from mines to NTPL. The coal transport for NTPL being road cum rail cum sea route, from MCL and ECL through Paradip port to Dharma port, to reach Tuticorin it takes a circuitous route sailing around Sri Lanka. The total lead time involved is about 15 days.

5.2 **TTC assessment considering thermal dependent rating of lines/terminal equipment**

- Keeping in view the high demand approaching (Jan to Apr), coal shortages etc SRPC vide letter dated 13.11.2017(**Annexure-5E**) had requested POSOCO to assess the possibility of TTC / ATC enhancement keeping in view the operational guideline for determination of TTC, ATC and TRM for short term horizon (0-3 months) issued by NRCE which is available on CEA website.
- Noting that there was no additional TTC sought based on temperature dependent thermal ratings of terminal equipments, SRPC vide letter dated 20.11.2017(**Annexure-5F**) again requested NLDC to take up the issue with the concerned entities and offered that any assistance/facilitation in obtaining the format for the transmission lines / terminal equipments for which the necessary technical certification is required in inter-regional (WR-SR and ER-SR), S1-S2 and (S1-S2)-S3 corridors will be carried out by SRPC Secretariat.

5.3 **TSSLDC-RE Rich State-Enhancement of Operational Deviation Limit to 250 MW**

TSTRANSCO vide letter dated 28.11.2017(**Annexure-5G**) had informed that the combined Installed Capacity of Wind and Solar Projects in Telangana state has crossed 3000 MW on 24.11.2017(3011.732 MW). It was requested to enhance the operational deviation limit to 250 MW and compute Deviation Charges with this limit as per CERC(Deviation Settlement Mechanism)(Third Amendment), Regulations 2016 dated 06.05.2016.

5.4 **Part Load operation of KKNPP Unit II**

- In the 137th OCC Meeting, OCC had suggested KKNPP to operate the Unit II (which was expected on bar on 19th November 2017) on partial load till the end of March 2017 considering the high demand expected during Feb-March.
 - SRPC vide letter dated 23.11.2017(**Annexure-5H**) had communicated the OCC recommendation to NPCIL and had requested to kindly arrange to examine the matter regarding part load operation of KKNPP Unit II till 31.03.2018.
 - KKNPP vide letter dated 24.11.2017(**Annexure-5I**) had informed that the issue had been conveyed to Director Operation, NPCIL for due consideration. KKNPP expressed concern regarding the outstanding dues from SR beneficiaries visa-viz Tamil Nadu, Karnataka and Telangana. As on 31st October 2017 outstanding amount being huge(1841 Crores) coupled with the fact that beneficiary of substantial supply of power from KKNPP SR, have not paid their bills, there is hardly to incentive to keep the units to be on bars till end of March 2018. NPCIL requested SRPC to kindly take up the issue

with the concerned states which will be of immense help and will give desired incentive to NPCIL to find the ways and means to keep Units on bars till the end of March 2018.

- Enclosing NPCIL letter, SRPC vide letter dated 29.11.2017 (**Annexure-5J**) had requested all the concerned to kindly examine the issue and payment due to NPCIL be expedited and settled at the earliest.

5.5 **KKNPP ICT keeping in opened condition**

- It was observed that KKNPP is keeping one ICT permanently out on 230 kV side (out of two ICTs). On enquiry KKNPP had mentioned that it was a general practice. It was emphasized that no element should be taken out without the consent of SRLDC. The issue was had been deliberated in the 136/137th OCC Meeting and the OCC forum viewed with concern the fact that a utility was not complying with the directions of SRLDC-apex body to ensure integrated operation in the Region. KKNPP was again urged to comply with the directions of SRLDC immediately.
- Subsequently SRPC vide letter dated 20.11.2017 had taken up the issue with SRLDC and requested SRLDC to take up the matter appropriately. The following were noted in the letter as per OCC deliberations:
 - Basic issue in closing the ICTs pertains to inter connection between 400 kV and 230 kV sides through ICTs with both the units in service. As per reliability requirement stated by KKNPP the interconnectivity between 400 kV and 230 kV was agreed.
 - As agreed earlier, KKNPP needed to take up the issue with Standing Committee urgently.
 - Till such time, a decision is received from the Standing Committee OCC opined that both the ICTs can be kept in service as per the directions of SRLDC.
- Status update by SRLDC/KKNPP.

5.6 **220 kV substation Edamon-Protection Audit**

In the 137th OCC Meeting while discussing on non availing of approved shut downs KSEBL had expressed concern regarding the non concurrence from Powergrid for shut down proposals for hybrid bus work at Edamon ie. shifting bays at Edamon and Kundara (Protection Audit recommendations). KSEBL had informed that this work is to be completed by 31st December 2017 as per CERC directions. Powergrid raised some issues regarding some asset loss. After deliberations SR-II was requested to kindly permit the works to be completed and asset issues may be dealt separately.

KSEBL vide letter dated 27.11.2017 (**Annexure-5K**) had requested SRPC to take up the issue with PGCIL to get concurrence for carrying out the works. KSEBL will be penalized in two ways:

- Non compliance of CERC Order on extension of time frame to complete the Protection Audit works and non compliance of completing the works in the time frame for utilization of grant under PSDF.

5.7 **Certification of availability of Transmission system of Inter State feeders:**

- TANTRANSCO vide letter dated 12.08.2016 had requested for the Availability Certificate (on request of PGCIL) for some of the Inter State lines for inclusion in the PoC charges.

Enclosing TANTRANSCO letter, SRPC vide letter dated 19.08.2017 had invited PGCIL attention/clarification in the following issues.

- No approved procedure available to issue availability certificate for state owned inter-state/inter regional lines.
- Clarity on issuance availability certificate by Member Secretary, RPC
- Issuance of Availability Certificate by other RPCs.
- It was noted that there has been no reply from PGCIL.
- KSEBL vide letters dated 23.10.2016 and 22.11.2017 have requested for the Availability certificate for the interstate feeders.
- Subsequently SRPC vide letter dated 23.11.2017 (**Annexure-5L**) had requested PGCIL to clarify the issues raised in SRPCs earlier letter for enabling SRPC to develop a procedure for Certification of Availability of State owned interstate lines.

5.8 **Keeping CGS/ISGS units under Reserve Shut Down**

In the 137th OCC Meeting, after deliberations, **OCC requested SRLDC to make presentation in the next OCC meeting on the Procedure/Guideline when the units can be taken under RSD.** Huge URS and forceful technical minimum schedule, overflowing hydro etc were not secure grid operation from Regional perspective.

5.9 **Declaration of Tentative DC**

- In the 136th OCCM after deliberations it was decided that for planning purposes, ISG generators will declare tentative DC (as close as possible for the next three days). This information will be circulated in closed group. This would be implemented from 15th October 2017.
- In the 137th OCC Meeting all the ISG generators agreed to furnish tentative DC for three days ahead for operation planning to SRLDC. SRLDC would communicate to SLDC in a closed group.
- Subsequently it was noted that NTECL Vallur had started furnishing the information.

5.10 **Automatic Generation Control(AGC) (Refer Item No. 4 in the Minutes of 7th NPC Meeting)**

- CERC in its Order dated 13.10.2015 in Petition No.11/SM/2015 had reiterated the need for mandating Primary Reserves as well as AGC for enabling Secondary Reserves.
- In the 7th NPC Meeting held on 8th September 2017 two aspects of AGC had been deliberated
 - a) AGC is the requirement of system operation where in generators has to participate in frequency regulation.
 - b) Ramifications of implementation of AGC on Tariff.
- It was felt by the NPC forum that since this issue pertains to generators and DISCOMs, it could be discussed at RPC level.
- After deliberations, NPC decided that AGC would be discussed in detail at RPC level in a Special Meeting. The discussion would include aspects of implementation of primary and tertiary controls also. For this agenda would be sent separately by POSOCO and routed through NPC Secretariat to have a commonality and National perspective.

5.11 **Common Transmission System Data Base (Refer Item No. 5 in the Minutes of 7th NPC Meeting)**

- In the 7th NPC Meeting held on 8th September 2017 NPC had emphasized the need for having an accurate All India power system data base for carrying out accurate power system studies for operational and planning horizons. It was observed that data mining needed to be carried out for this purpose. It was accepted that POSOCO may prepare requires formats and circulate to all RPCs and in turn RPCs may obtain data from their constituents. POSOCO was requested to circulate the format in this regard to be used by all RPCs.

5.12 **Preparation of Guidelines on Availability of Communication System(Refer Item No. 17 in the Minutes of 7th NPC Meeting)**

- In the 7th NPC Meeting held on 8th September 2017 NPC had informed that CERC has entrusted NPC to prepare Guidelines on “Availability of Communication System” in terms of Regulation 7.3(i) of CERC(Communication System for Inter-State transmission of electricity), Regulations, 2017. In this regard, it was decided to constitute a Working Group with members from RPCs, POSOCO, CTU, CEA, PGCIL and NTPC.

5.13 **RRAS schedule**

- In the 136th OCC Meeting it was noted that SRPC vide letter dated 20.09.2017 had communicated some of the observations regarding the regulation up given for the date 17.09.2017 from 03:15 hours to 06.00 hours (around 2000 MW) and also from 05:30 to 09:30 hours about (around 1200 MW). NLDC vide letter dated 03.10.2017 had replied to the same. SRPC vide letter dated 13.10.2017 had again taken up the issue with NLDC and clarified that the intent of SRPC had been to point out the incident and the action taken by NLDC from 05:30 hours to 06:30 hours not from 06:30 hours to 09:30 hours. As regards to the RRAS schedule for RGPPL_IR cited in SRPC letter dated 20.09.2017 clarification was awaited from NLDC.
- SRPC vide letter dated 23.11.2017(**Annexure-5M**) had communicated the observation regarding the issuance of up regulation to costlier generators like NTPC Kudgi, NLC TPS I & II etc instead of availability of cheapest generator Talcher on 24.09.2017. On 20.10.2017 UP Regulation is given to Ramagundam STPS Stage III instead of Talcher Stage II.

5.14 **Issues related to NPS-Nellore 400 kV Transmission lines loading**

- MEL/SEL vide letters dated 04.11.2017 and 06.11.2017 had raised some issues related to NPS-Nellore 400 kV Transmission lines . The following issues were discussed in the 137th OCC meeting.
 - ❖ NPS-Nellore LO segment tripping/overloading exceeding the carrying capacity and non implementation of the decision for isolating the NPS-Nellore LO segment.
 - ❖ Maintenance responsibility of NPS-Nellore LO segment.
- The following were noted after deliberations:
 - ❖ SRLDC had informed that they will generally keep the line open according to system conditions after consultation with NLDC. Line loading issues in the downstream system in view of opening these lines will be studied.
 - ❖ **SR-I representative** had stated that the lines were encountering several issues and weak segment maintenance cannot be taken up by them, Higher Management would

be apprised of the issue and **would come up with their views in the next OCC Meeting.**

- Subsequently SRPC vide letter dated 21.11.2017(**Annexure-5N**) had taken up the issue with **SRLDC and requested that this matter may please be reviewed urgently.**

5.15 **Extended mode of operation of Talcher-Kolar Link**

- SRPC vide letter dated 13.10.2017 had brought to the attention of NLDC and had requested that extended mode of operation of T-K link be arranged to be kindly examined and possibly discuss it in the ensuing meeting on 23.10.2017
- In the 137th OCC Meeting, it was noted that NPC had convened a Meeting on 23.10.2017 at NRPC in which the issue of revival of TTC/ATC of 500 MW (extended mode) of HVDC Talcher-Kolar for 10 hours a day was discussed and the following was noted in the minutes of the Meeting:

Quote

It was decided that since this issue had been discussed in SRPC for a long time, hence there is a need for NLDC to come up with the reasons behind the requirement of keeping this additional margin. These reasons could then be studied through simulation at SRPC level for their acceptance. NLDC may submit the reasons of keeping additional margin to SRPC and NPC Division, CEA within two weeks.

Unquote

- Status update.

5.16 **Operation of Hydro Power Projects in Peaking Mode**

- Forum of Load Despatchers (FOLD) and POSOCO have prepared a report “**Report on Operational Analysis for Optimization of Hydro Resources & facilitating Renewable Integration in India**”. MoP had constituted a sub-committee under Chairperson, CEA to study and recommend the individual hydro power stations which can be operated to achieve peak load capacity. It was desired by CEA that monthly analysis of performance of Hydro Stations in OCC Meeting needed to be done, **SRLDC may kindly project the performance in every month OCC.**
- In the 137th OCC Meeting the following was noted :
 - SRLDC informed that NLDC had desired to conduct meeting with KSEBL and KPTCL respectively on the subject. KSEBL & KPTCL/KPCL were requested to convey suitable dates. It was noted that issues any may be raised in the Special Meetings which is planned by NLDC.
 - KSEBL had raised some mismatch (though units were out still generation was more than IC on bar) in the analysis presented by SRLDC. SRLDC agreed that they will analyze the same and revert back.
 - SRPC had suggested that the analysis may be circulated to states before the OCC and any discrepancy may be solved mutually.

5.17 **Utilization of RE Generators for Reactive Compensation & High Voltage**

- ✓ It was noted that even though Solar Generators/Wind Generators have very controllable reactive injection/absorption possibility they are not being utilized because of PPA commitments/penalties. It was suggested that SLDCs/STU may approach their Regulator for a flexible set point as per the directions of SLDCs. The directions of SLDCs could be based on voltage levels on seasonal basis or on solar/non solar hours on daily basis.
- ✓ The issue was further deliberated in RE/LVRT Meeting held on 25.10.2017. In the Meeting SRLDC had agreed to take up the issue in the FOR meeting states had been requested to appraise their management.
- ✓ States were requested for update on the issue.

5.18 **Terms and Reference for the proposed study on Renewable Integration**

- ✓ The issue was further deliberated in 31st TCC/32nd SRC meetings and it was agreed that a separate meeting would be held at SRPC with participation from constituents/RE Developers. TANTRANSCO would coordinate for RE Developers participation.

5.19 **State-wise allocation of 540 MW power from RGPPL to Railways**

540 MW power from Ratnagiri Gas and Power Private Limited (RGPPL) has been allocated to Indian Railways. Allocation to SR States (out of 540 MW) would be as under:

State	Nodal Railway	Maximum load in MW after availability of corridor between NEW Grid and SR
Telangana	SCR	50
Tamil Nadu	SR	100
Karnataka	SR	35

* date of effectiveness subject to availability of transmission corridor as per assessment of CTU.

- 35 MW MoP allocation to Railways(Karnataka) from RGPPL was operational from 25th October 2017.
- TSTRANSCO and TANTRANSCO to be ready with the infrastructure since it was MOP allocation and it was being monitored under 'PRAGATI'. In short notice it may be required to be operationalised.

5.20 **Compliance of CEA Regulations for Grid connectivity of Renewable Energy Sources**

CEA vide letter dated 12.04.2017 & 08.05.2017 (enclosing MoP letter 06.04.2017) and Special Meeting on 28.06.2017 & 11.09.2017 had observed that it was obligatory for all the grid connected renewable generators to provide necessary facilities for data-communication and data-storage and other parameters as may be stipulated. It was decided by CEA that the respective states will submit weekly reports of data communication status to CEA as well as to respective RPC/RLDC and NLDC.

The 4th Meeting on LVRT for compliance of Orders of Hon'ble CERC in respect of Petition No. 420/MP/2014 & provisions of CEA/CERC Regulations and other RE issues was held on 25.10.2017 at SRPC, Bengaluru. Officials from SLDCs of TN, AP, TS, Kerala, TANGEDCO,

IWPA, SRLDC & SRPC participated in this Meeting. The Minutes of the Meeting is available at the SRPC website.

The following was the updated status on RE SCADA availability as noted in the 137th OCC Meeting:

State	SCADA availability as on 25 th Oct-17 Mapped/IC
AP	Wind: 3620/3770 MW (96.02%) Solar: 1901/2060 MW (92.28%) Total: 5521/5830 MW (94.69%)
TS	Wind: 100.8/100.8 MW (100%) Solar: 2039.924/2405 MW (84.82%) Total: 2140.724/2505.8 MW (85.43%)
KA	Wind: 3504.5/3504.5 MW (100%) Solar: 1476/1476 MW (100%) Total: 4980.528/4980.528 MW(100%)
KE	Wind: 16/59.3 MW (26.99%) Solar: 57.18/75.1143 MW (76.12%) Total: 73.18/134.389 MW (54.45%)
TN	Wind: 6342/7858 MW (80.48%) Solar: 648/1850 MW (35.02%) Total: 6990/9730 MW (71.84%)

The following were noted in the RE/LVRT Meeting:

- ✓ SRPC pointed out that 100 % RE visibility was required to be ensured and the issue was being viewed by MoP / CEA. Weekly status reports were to be furnished to CEA.
- ✓ TANTRANSCO informed that SS under 10(1) have been issued notices for SCADA availability. Within 15 days, 100% SCADA availability of Wind was expected. SRLDC stated that RE details could be extended to SRLDC by 30.11.2017. For Solar SCADA availability, both TANTRANSCO (Communication part) and TANGEDCO (Metering part) had jointly initiated the action and it was targeted to be completed by March 2018.
- ✓ APTRANSCO informed that pending SCADA availability was for RE connected at Distribution level for which, action had already been taken for compliance.
- ✓ TSTRANSCO informed that 100 % RE SCADA availability had been ensured at 132 kV and above. Action for balance pending at 33 kV and below was being followed up and notices had been issued.
- ✓ SRPC / SRLDC requested the SLDCs that pending SCADA availability of RE sincerely with concerted efforts for compliance of CEA / CERC Regulations.
- ✓ SRLDC pointed out that availability of redundant / reliable path, internet etc could also be considered by the SLDCs.

5.21 **Monitoring of scheme funded from PSDF**

- ✓ 7th NPC Meeting was conducted on 08.09.2017. The minutes of the Meeting are issued and available in CEA website(**refer Item No.3 of the minutes**). RPCs were further

requested to examine the implementation of schemes in OCC & TCC meetings and intimate NPC about any bottlenecks. The latest update received from NPC w.r.t SR schemes are at **Annexure-5O**

5.22 **PSS Tuning of generators**

- ✓ 5th Meeting to review the status of PSS tuning of the generators was convened on 26th July 2017 and minutes of the Meeting are available at SRPC website. All the generators to follow the action plan finalized in the 5th PSS meeting. *(refer Table -I)*

5.23 **Implementation of URTDSM (PMU) project in Southern Region**

- Status update as per the Minutes of the Meeting held on 24.10.2017 *(Refer Table-II)*
- **KSEBL vide letter dated 28.11.2017(Annexure-5P) had submitted their requirement.**

5.24 **Letter from MNRE**

In the 134th OCC Meeting SRLDC informed that SRLDC has received a letter from MNRE on Ministry of Defense request to MNRE to formulate a methodology to switch ON or OFF the wind farms/turbines near to IAF/Railways during war time using centralized system in order to avoid any interference to IAF operations in the war. SRLDC had informed that they would communicate to states to furnish the information as sought by MNRE. They would seek clarity on 'vicinity' from MNRE.

it was noted that clarification on Vicinity has been sought from MNRE through NLDC considering the issue was common to all the Regions. Reply from MNRE is awaited.

5.25 **Request for Review of SPS**

SRPC vide letter dated 06.10.2017 had suggested to NLDC that the SPS schemes could be reviewed for modification/disconnection etc. It was also suggested that the modification/disconnection could be further deliberated through VC. In the 136th OCC Meeting states had agreed and suggested for review of SPS schemes. SRLDC was requested to kindly co-ordinate with NLDC.

5.26 **Status review of issues pertaining to KPTCL**

SRLDC vide letter dated 28.11.2017 **(Annexure-5Q)** had communicated to KPTCL regarding the pending issues pertaining to Karnataka System as already discussed in the 137th OCC Meeting and requested KPTCL to intimate the follow up action status of the points as mentioned below:

- i. KPTCL is requested to fix a date for conducting a meeting. w.r.t RGMO Performance and intimate the same to SRLDC /SRPC.
- ii. KPTCL has to update the status of implementation of second stage of UV (feeder tripping details) before November end.

- iii. Mock exercise for BTPS and RTPS: KPTCL to conform the dates for conducting BSRP Mock exercise. Request to propose suitable date so that SLDC in coordination with SRLDC can complete the same before next OCC.
- iv. AUFR relief: KPTCL to confirm addition of feeders for sufficient relief as recommended by OCC forum.

5.27 Delay in charging 220 kV Kaiga-Kadra line on 23.11.2017 by NPCIL, Kaiga

- Communication in this regard from KPTCL SLDC and SRLDC is at **Annexure-5R**
- Line shut down was requested by Kaiga on 220 kV Kaiga-KOdasalli line on 23.11.2017 and CODE was issued for the same. But instead of opening 220 KV Kaiga-Kodasalli line 220 kV Kaiga-Kadra line was opened at Kaiga at 09:35 hours. During this period 220 kV Kadra-Kodasalli was faulty and there was a generation of 50 MW at Kadra. Opening of Kaiga-Kadra line resulted in 220 kV bus dead at Kadra and also 220 kV Karwar station got interrupted. Kaiga was requested to charge 220 kV Kaiga-Kadra line at the earliest. It was noted with concern that despite of continuous efforts of SRLDC & KPTCL SLDC, Kaiga was reluctant to charge the line and for than two hours instructions of SRLDC has not been complied.

5.28 Non Availability of Kaiga, Trichy and Hyderabad Voltage(SCADA) data at SRDC

- In the 136th OCC Meeting, w.r.t Hyderabad voltage SR I had informed that Hyderabad 400 kV Voltage is made through and problem is with 220 kV side which is under TSTRANSCO.
- TSTRANSCO vide letter dated 23.11.2017(**Annexure-5S**) had requested to CE, Transmission, TSTRANSCO to kindly arrange for the early rectification of the issue.
- TANTRANSCO/Kaiga is requested to attend the problem at the earliest.

Item No 4(b) of SRLDC agenda dated 29.11.2017

5.29 Ramagundam data jumping issue

- In the 137th OCC Meeting the issue was discussed and noted that issue at Ramgundam was resolved. TSTRANSCO informed that issue at Mylapalli was being attended.
- TSTRANSCO vide letter dated 23.11.2017(**Annexure-5T**) had informed that the anlog points of 220 kV SS Ramagundam lines 1,2,3 and 4 emanating from 220/132 kV Maltalapally SS are rectified at Malyalapally SS end which are used as alternate data in Telangana CGS calculation.

6 GRID FREQUENCY

6.1 High Frequency

- a) High frequency at Load Change Over.
- b) Status review of implementation of staggered load change over within the constituents as per the decision of 23rd SRPC meeting, moderating own generation, surrendering of

ISGS power in advance and other actions by Regional Entities to avert high frequency excursion.

6.2 **Low Frequency**

- a) Summary statement of different violation messages issued by SRLDC to each constituent as per new IEGC Amendment.
- b) In the 124th OCC Meeting it was suggested that SRLDC may identify incidents of UD/OD for Analysis by States. SRLDC to furnish the incidence for analysis, if any.
(Item No. 5 of enclosed SRLDC letter dated 29.11.2017)
- c) SRPC analysis on OD/UD for the period from 16.10.2017.2017 to 15.11.2017 by SR constituents is at **Annexure-6A**

7 **VOLTAGE PROFILE**

7.1 **Low voltage**

- a) Details of Capacitors installed during November 2017. Details of the healthy/faulty capacitors to be furnished.

7.2 **High Voltage**

- High Voltage at Nizamabad(765 kV), Mamidippili, Malkaram, Bhoopalappalli, Gajvel, Singreni, Suryapet, Srisailam, Shakarappalli, Mahaboobnagar, Dindi, Kurnool(765 kV), Satenappalli, UVKonda, Jamalamadgu, Narnnor,Ghani, Raichur, Narendra, Kaiga, Udupi, Talguppa, Hassan, Mysore, Tumkur, Hiriyur,Tiruvalam, Almathy, Kayathar, Karaikudi, Kamudhi.
- 400 kV Kamudhi-Kayathar line kept opened since 28.03.2017 due to persistent high voltage and pending bay works at Karaikkudi.
- Frequent tripping of Kurnool-Thiruvalam lines on over voltage.
(Item No. 6 (a) & (b) of enclosed SRLDC letter dated 29.11.2017).

7.2.1 **Status review of GT Tap positions**

- **GT tap Positions** - GT taps yet to change as per recommendation ([Refer Table-III](#))
- GT taps of all new units getting synchronized to grid should be kept at the nominal grid voltage level of 400 kV or 220/230 kV. SRLDC would ensure the requirement for ISTS connected generators while SLDCs should ensure it for their embedded generators.

7.2.2 **MVAR Interchange/MVAR capability testing**

- Nodal Officers may kindly ensure that the data reaches SRLDC/SRPC in time (by fourth of every month) so that SRLDC can correlate it with SCADA data and analysis could be done facilitating actions for further improvement.

- Recommendations finalized in the Special Meetings were required to be implemented.
- All the SLDCs to kindly monitor VAR absorption/injection of generating units in their respective control areas in real-time.

7.2.3 Status review of Bus/Line Reactors, Line Reactors and STATCOM

- Status of implementation of Bus / Line Reactors approved in the Standing Committee / SRPC pending for commissioning by the SR constituents. *(Refer table-IV)*

7.2.4 Reactive Power Planning

Status update on capacitor installation. *(Refer table-V)*

8 Network Protection/Security issues

8.1 U/F & df/dt Relays Schemes

- **Implementation of SRPC recommended quantum**
- ✓ SRPC/SRLDC suggested that TN/KAR/TS may analyze the relief on each feeders and sort out the feeders which are giving less relief. Accordingly additional feeders may be increased. **Action Plan to be submitted to SRPC/SRLDC within 10 days.**

8.2 SCADA mapping of feeders of AUFR & df/dt schemes

The status update as per SRLDC after validation of all the States is as follows:

State	SCADA mapped %	Status
AP	59.3	APTRANSCO informed that 20 RTUs had been commissioned out of 25. 5 would be commissioned shortly. Balance RTUs are covered under OPGW scheme approved through PSDF.
TS	78.3	TSSLDC informed that 6 RTUs had been provided for Solar Generators and for 17 RTUs, procurement was being taken up and it could take 4-5 months. There were 18 RTUs for Interstate feeders and some would provide UFR and df/dt relief quantum also. With this they were likely to achieve 100% mapping.
KAR	99.8	
KSEB	98	
TN	92	Additional RTUs needed to be procured for 100% SCADA mapping. Transducers to be procured.

SRPC/SRLDC requested that a monthly report on the action taken to reach 100 % availability may be furnished to SRPC/SRLDC.

All the States were requested to kindly initiate the action to achieve 100 % SCADA visibility.

- In the 7th NPC Meeting held on 08.09.2017 NPC has sought the views of members on the review of quantum of load shedding and stages of frequency and after deliberations the following was agreed (**Refer item No.8 of the Minutes**)
 - ✓ There is need for review of quantum of load shedding without introduction of additional slabs/stages of frequency. Therefore RPCs may deliberate on additional slabs of frequency as well as raising the set frequency for UFR operation. The views of RPCs would be put up in next Meeting of NPC.
- With respect to mapping of feeders it was agreed that each RPC would submit the details/progress of feeder mapping to NPC Secretariat.
- With respect to ensuring proper functioning of AUFR and df/dt relays the following was decided:
 - ✓ Mock test is good enough to test the healthiness of the AUFR and df/dt relays. The frequency of site inspection was proposed to be up to six months. RPC Secretariat shall carry out periodic inspection, in line with the provisions of IEGC. RPC Secretariat to furnish the inspection reports to NPC Secretariat.

8.3 Special Protection Systems

- **SPS operations**

- ✓ SPS Operations during the month of November 2017 if any to be furnished by SRLDC.

9 Automatic Demand Side Management Scheme (Petition No. 250/MP/2012) & GSES (Petition No. 265/MP/2012)

- The issue of changing the frequency setting to 49.9 Hz was discussed in the TCC/ SRPC Meetings it was agreed to retain the settings at 49.8 Hz till the next TCC/SRPC meetings.
- In the 136th OCC Meeting after deliberations it was decided that the setting would be revised to 49.85 Hz and below for frequency and for deviation of minimum DSM limits for 15 minutes. It would be reviewed for few months and setting may be changed to 49.90 Hz (IEGC limit) in next step. An alarm can be set at 49.90 Hz and below for 10 minutes to enable SLDC operator to take manual action. Also the performance/functioning of ADMS is required to be tested periodically by the respective SLDCs following the practices similar to that carried out by Kerala.

- In the 137th OCC SRPC/SRLDC had requested all the states to take the Management approval and implement the same.
 - Subsequently it was noted that APTRANSCO, KPTCL, Tamil Nadu and Puducherry had implemented the revised logics. Communication in this regard from AP, KAR and Puducherry are at **Annexure-9A**. TANTRANSCO is requested to furnish the communication on the confirmation implementation.
 - **TSTRANSCO, and KSEBL are requested to implement the same.**
 - KSEBL vide letter dated 23.11.2017 (**Annexure-9B**) had informed that as per decision taken in the 137th OCC Meeting a mock drill was carried out to test the ADMS on 22.11.2017
- SRLDC had pointed out that similar to existing ADMS logic (O/D), backing down of generation during the sustained U/Ds during high grid frequency may be required. It was observed that KSEBL and KPTCL were having provisions of tripping/backing down of the generators in case of U/Ds during high frequency. Other states were requested to examine the technical feasibility/provision for backing down of generators and revert back.

10 Grouping of loads (IEGC clause 5.4.2 (e))

- As per IEGC, to maintain the frequency within stipulated band and also to ensure network security, the interruptible loads were to be arranged in four groups of loads, This was for the purpose of scheduled power cuts/load shedding, loads for unscheduled load shedding, loads to be shed through UF relays, df/dt relays and loads to be shed under any SPS scheme. These loads are to be grouped in such a manner that there is no overlapping between different groups of loads.
- The issue was noted for compliance by the concerned utilities. SRLDC requested all the states to kindly furnish the updated details in this regard.

11 LVRT Implementation

- Hon'ble CERC has passed Order in respect of Petition No. 420/MP/2014 on 05.01.2016. The Order directs a number of actionable points by various utilities for compliance of LVRT, CEA & CERC Regulations etc. Four Special Meeting were conducted at SRPC on 05.02.2016, 18.04.2016, 05.07.2016 & 25.10.2017 (Meeting minutes are available at SRPC website).
- MS, SRPC requested the entities to take necessary action as finalised in the Meeting held on 25.10.2017.
- SRLDC had listed out some of the points which needed to be addressed urgently / suitably by all utilities in order to have strict compliance to Hon'ble CERC order. SRLDC vide letter dated 29.11.2017 (**Annexure-11A**) had requested to take necessary actions and resolve the issues within the time line mentioned. It is also requested to update the status positively by 05.12.2017 so that the details could be deliberated in the 138th OCC Meeting scheduled on 11.12.2017.

12 Emergency Restoration System (ERS)

- As per ERS requirement outlined in MoP letter dated 05.12.2014, status update on ERS is given at [Table VI of Appendix](#).
- In the Meeting held under the Chairmanship of Secretary (Security) on 28th June 2017 it was noted that ERS were in procurement stage in most of the states and the response from the states was not very encouraging.

13 **SCADA AND COMMUNICATION**

- A Special Meeting was held on 24.10.2017 to deliberate on pending SCADA/Communication issues. Minutes of the Meeting is uploaded on SRPC website. The status of pending Items as deliberated in the Special Meeting/subsequent OCC meetings is at [Table VIII of Appendix](#).
- **KKNPP analog data not reporting:** KKNPP vide letter dated 23.11.2017 (**Annexure-13A**) had again requested to PGCIL, SR II to kindly arrange to provide two analog cards on urgent basis for replacing the faulty cards to KKNPP. It was also requested to provide budgetary offer for Analog card (D20AHV2) with base-6Nos, Digital card (D205) with base-6nos and CPU Card (D20M++) along with power supply unit set- 1 no for future utilization at KKNPP RTU panels.
- SRLDC had invited attention of the forum that CERC had brought out Order on Suo moto Petition 007/SM/2014 dated 29.01.2016 regarding SCADA. SRLDC had started posting this information from February 2016 on their website.

14 **RGMO/FGMO**

- RGMO response had been deliberated in various Special/OCC/TCC/SRPC meetings. Inadequate response was an area of serious concern and there was no noticeable improvement. SRPC had stated that the recommendations finalized in the special RGMO/MVAR interchange meeting should be complied by all the utilities.
- RGMO analysis for 12.11.2017(07:14 hours) incident.
- Special Meetings were conducted with Tamil Nadu and ISTS/MPPS and the actionable points had been communicated to the concerned ([Refer Table- IX of Appendix](#)).
- It was decided that each state may conduct a special meeting at SLDC with generators under their control areas including IPPs and SRLDC/SRPC can join the Meeting by VC. All the states except Tamil Nadu are requested to convene the Meeting at the earliest.
- RGMO implementation/ Extension of RGMO status point to SLDC
- As per 5th Amendment to IEGC, gas stations above 50 MW Installed Capacity were also to come under RGMO/FGMO Operation w.e.f. 1st October 2017. SLDCs were requested to take action to comply the Amendment. AP, TN and NTPC (Kayamkulam) were requested to take up the issue seriously with respective generators.
- All generators should keep a Margin for RGMO response while declaring DC in all level ie at full load/partial load operation.
- SRLDC requested that the list of all hydro stations and gas stations which are covered under FGMO/RGMO response along with the status clearly mentioning the CERC order in case exemption/extension is received from Commission may be furnished.

Item No. 9(c) and (d) of SRLDC agenda dated 29.11.2017

15 **TRANSMISSION NETWORK ISSUES AND SYSTEM OPERATION ISSUES**

- Load ability of ICTs and revisit of the associated protection settings to prevent cascade tripping of ICTs/high loading of transmission lines. Insufficient action in controlling the loading of ICTs leads to N-1 criteria violation in compliance of Regulation 3.1 f(8) of CEA(Grid Standards) Regulations 2010 and Regulation 3.5 a(i) of CERC Indian Electricity Grid Code Regulations 2010.
- Over loading of ICTs and N-1 violation at Hoody, Gazuwaka & Nellore was being observed.

Item No. 7(c) and (d) of SRLDC agenda dated 29.11.2017

16 **Black Start Procedure**

- Status needs to be furnished in the following format :

State	BSRP reports for July 2017 to Dec 2017	BSRP schedule for Jan 2018 – June 2018	Point to point mock exercise report being furnished	Updated list of Nodal Officer	Workshop Schedule

- KPCL vide letter dated 22.11.2017(**Annexure-16A**) had informed that mock drill exercise for BSRP for the second block period for the year 2017 of Varahi UGPH was conducted on 31.10.2017.
- KSEBL vide letter dated 24.11.2017 (**Annexure-16B**) had submitted report of the mock drill conducted on 24.11.2017 by forming a subsystem involving Kuttiyadi Generating Station, Cheyaur, and Nallallam Sub Stations.
- Development of mock exercise procedure for Individual Stations / Systems.
- Point to point mock exercise for black start by all constituents
- Development of Procedure for restoring Metro Operation in case of Black out.
- Conducting mock drill exercise from Jurala to RTPS, Naghjeri to BTPS and Kaiga NPP
- NPCIL to submit draft Mock exercise procedure for MAPS &KAIGA

17 **Upcoming Generating Stations**

- Status update of Central sector and State Sector Upcoming generating stations are at [Table VII of Appendix](#).
- SRPC stated that declaration of COD letter from SLDC was required to be submitted to CEA, Fuel Management Division for purpose of coal linkages etc.
- SRLDC pointed out those new ISTS connected units should come out with detailed metering scheme for various units commissioning schedule at least one year prior to synchronization. The scheme needed to be discussed and finalized in the Meeting of Commercial Sub Committee.

18 **Any other point with the permission of the Chair.**

19 **Date and Venue of the next Meeting.**

Appendix Follow up Issues

1	ROW issue of 400 kV Nelamangala-Hoody Line/ commissioning of 400 kV Yelahanka substation/220 kV evacuation system of KPTCL at Yelahanka substation	<ul style="list-style-type: none"> ➤ PGCIL: Following up State Administration for removal of ROW issues for LILO of Nelamangala - Hoody at Yelahanka ➤ KPTCL: Downstream scheduled to be commissioned in December 2017
2	REMC Project	<ul style="list-style-type: none"> ➤ (GOI) sanction had been received in Sep 2017 ➤ First kick off Meeting for REMC project implementation conducted on 01.11.2017 ➤ Site survey for SRLDC is carried out. ➤ Implementation schedule was of 14 months.
3	VC facility	<ul style="list-style-type: none"> ➤ Puducherry to take up VC requirement in 2017-18
4	ICT at Madurai	<ul style="list-style-type: none"> ➤ TANTRANSCO: Would be completed by 31.11.2017
5	Completion of Kamudhi bays at Karaikudi by PGCIL	<ul style="list-style-type: none"> ➤ Circuit- II by 15.12.2017 (delay was due to mismatch in the terminal equipment) ➤ Circuit -I by January 2018(delay was due to construction of SPR(secured panel room) which is in the ICT –III contract)
6	Operation of Nagarjunasagar / Srisailam / Kadamparai units in pump mode	<ul style="list-style-type: none"> ➤ No pump mode operation during October 2017. ➤ Srisailam, two units were operating in Pump operation during high frequency period from 8th November 2017 after around three years. ➤ At Nagarjunasagar some technical /administration issues are prevailing and may be solved within two three months.
7	PSS/E Base Case model for the states of SR for low voltage scenario for capacitor requirement assessment	<ul style="list-style-type: none"> ➤ Modeled by SRLDC/SRPC and submitted to CPRI on 23rd March 2017. ➤ CPRI study report is awaited

8	Condenser mode of operation of Nagarjunasagar and Srisailam LB	<ul style="list-style-type: none"> ➤ All the 6 units at Srisailam operated in condenser mode at different times. During day time four units together also had been operated in condenser mode. ➤ At Nagarjunasagar all the units except Unit IV and VI put in condenser mode and four units simultaneously also being operated at condenser mode.
9	Closing of 220 kV Upper Sileru-Balimela line	➤ Idle charged from 8 th January 2015 from Upper Sileru end.
10	Shifting of PMU from GMR-Vemagiri to NP Kunta-Status	<ul style="list-style-type: none"> ➤ PMU commissioned on 6th/7th November 2017. ➤ All the States were requested to give the requirements for Second Phase to CTU.
11	Priority for Railways/Metros in the matter of Restoration of Supply	<ul style="list-style-type: none"> ➤ TSTRANSCO had informed that a meeting had been convened with L & T Metro Rail (Hyderabad) Limited, TSTRANSCO and DISCOM authorities on 23.10.2017 and had discussed operational, SCADA & Telecommunication issues with respect to L & T Metro Rail. ➤ TSTRANSCO vide letter dated 13.11.2017 had communicated in this regard to L & T Metro Rail

**TABLE I
PSS TUNING**

SRT of following units had been analyzed upto 5th Meeting of PSS and necessary action had to be taken as per Recommendations

APGENCO	Rayalaseema TPS U1 to U5; VTPS U1 to U4 & U7; SDSPP U1&U2; Srisailam RB HEP U1 to U7; Lower Sileru HEP U1
AP IPP	HNPCL U1 & U2
TSGENCO	Nagarjunasagar HEP U1 to U8; Srisailam LB HEP U1 to U6; Kakatiya TPS U1 & U2; Kothagudem TPS U10 & U11; Singareni Collieries(STPP) U1 &U2(Reports to be analysed)
KPCL	Raichur TPS U1,2,3,5,6,7& 8; BTPS U1 to U3; Varahi UGPH HEP U1 to U4; Nagjheri HEP U1 to U6(U6 Report to be analysed); Sharavathy HEP U1,2,3,4,5,6,7,9 & 10; Raichur TPS U4(Report to be analysed)
KAR IPPs	UPCL U1 & U2; JSWEL U1 to U3
KSEBL	

TANGEDCO	MTPS I U1 to U4(U1 Report to be analysed); NCTPS St-I U1 to U3; Tuticorin TPS U2 to U5; NCTPS St-II U1; Kadamparai HEP U1 & U2; MTPS II(Report to be analysed)
TN IPPs	
CGS	NTPC- Ramagundam U7; NTPC-Simhadri U1 to U4; NTPC-Talcher STPS St-II U3 to U6; NTECL-Vallur TPS U1 to U3; NLC-Neyveli TPS II U4 to U7; NLC-Neyveli TPS II U1 to U3; NPCIL-KKNPP U1;NLC-Neyveli TPS II Exp. U1 & U2; (NLC & TN JV)NTPL U1; NTPC-Kudgi U1
ISTS connected IPPs	TPCIL U1; Coastal Energen U2; IL & FS U1 & U2

For the following Units, PSS is to be tuned and SRT to be carried out / information not available

Entity	Generating Stations/Units
APGENCO	VTPS U5 & U6; Lower Sileru HEP U2 to U4
AP IPPs	
TSGENCO	Kothagudem TPS U7 & U8
KPCL	Yeramarus TPP; Sharavathy HEP U8
KAR IPPs	JSWEL U4
KSEBL	Idukki HEP U1 to U6
TANGEDCO	NCTPS St-II U2; Tuticorin TPS U1; Kadamparai HEP U3 & U4
TN IPPs	STCMS
CGS	NTPC-Ramagundam U1 to U6; NTPC-Kudgi U2; NLC-Neyveli TPS I Exp. U1 & U2 (SRT report not submitted); NPCIL- KGS U1 to U4; NPCIL-MAPS U1 & U2; NPCIL-KKNPP U2
ISTS connected IPPs	TPCIL U2; Coastal Energen U1; Lanco Stage II & III; SGPL-Nellore; SEL U1 to U4; MEL U1 & U2

Table II- URTDSM UPDATES

	Status as on 24 th October 2017 Meeting	Updates in OCC																									
URTDSM Status	<table border="1"> <tr> <td>Region</td> <td>Approved</td> <td>Installed</td> <td>Integrated</td> <td>Validated</td> </tr> <tr> <td>SR I SS</td> <td>27</td> <td>24</td> <td>22</td> <td>16</td> </tr> <tr> <td>SR I PMU</td> <td>113</td> <td>106</td> <td>97</td> <td>59</td> </tr> <tr> <td>SR II SS</td> <td>41</td> <td>37</td> <td>34</td> <td>31</td> </tr> <tr> <td>SR II PMU</td> <td>142</td> <td>131</td> <td>121</td> <td>106</td> </tr> </table>	Region	Approved	Installed	Integrated	Validated	SR I SS	27	24	22	16	SR I PMU	113	106	97	59	SR II SS	41	37	34	31	SR II PMU	142	131	121	106	No Change in SR-II
Region	Approved	Installed	Integrated	Validated																							
SR I SS	27	24	22	16																							
SR I PMU	113	106	97	59																							
SR II SS	41	37	34	31																							
SR II PMU	142	131	121	106																							
AP & TS PMU installation and data validation	Commitment: Completion by 15.11.2017 (AP, TS & SR I)																										
Data validation for KSEBL PMU	Would be completed by 05.11.2017. (SR II)	To be completed by KSEBL																									
Supply of PMU at Chittoor, Kaiga and Arasur	The final amendment is being followed up with LD & C Department and agreed to complete task by November 2017	Post GST issue is being resolved with contractor.																									

	SR- I & II)	
Kolar PMU	Commissioning works were in progress and would be completed by end of October 2017 (SR II)	Completed .
BHAVINI	Requested to grant permission for PMU installation Targeted to be completed by 15.11.2017. (SR II)	Panels erected and Cabling works under progress. To be completed by 25.11.2017
Kurnool, Srikakulam PMU commissioning	Would be taken up from 01.11.2017. (SR I & AP)	
Control Centre issues		
TANTRANSCO SAT	Schedule for commencement of SAT was 30.10.2017.	SAT completed on 08.11.2017
KPTCL :Air Conditioning for URTDSM server Room	Proposal has been approved and would be completed within 15 days once the work starts. It was likely to be completed by 15.11.2017.	KPTCL to Update
KSEBL request to SR-II :Revised schedule for hardware erection, installation and commissioning.	SR-II: Commissioning would be completed by 05.11.2017 and SAT was targeted completed by 10.11.2017.	KSEBL Rack stacking completed. Powering up and commissioning activity to commenced by 20 th and to be completed by 10th Dec 2017
APTRANSCO URTDSM hardware for APTRANSCO	Received at Nunna, to be shifted to the SLDC APTRANSCO. Temporary UPS (power supply) would be arranged to be completed by SAT by November 2017	
URTDSM hardware for TSTRANSCO	TSTRANSCO: Space had been identified, some civil works were yet to be completed (take around 2 months). TSTRANSCO to explore the possibility to complete the integration of server system by making temporary arrangements.	
APS		
Type Tests for APS	PGCIL informed that the Type Tests would be completed by 15.11.2017. APS would be supplied to SRLDC and other constituents by the end of December 2017.	Type test and supply completion on schedule

General Arrangement Drawings for APS system	SR-II has submitted the Drawings vide mail dated 25.10.2017.	SRLDC to complete all associated civil activities in time for UPS installation as per BOQ
SAT/SVAT		
SAT Test for Analytical Application	First three modules (Line Parameter Estimator, Linear State Estimator and Vulnerability Analysis for Distance Relays) would be supplied and installed by 31.10.2017 .	Analytical app installation commenced by IIT Mumbai and is in progress
SAVT (1000 hrs) performance test	May be taken up after 100 % PMU reporting to the respective Control Area. SRLDC may also take up SAVT after reporting of 100 % PMU.	SR- II stated that contractually 75 % PMU reporting is sufficient for SAVT at control centres and hence same need not be linked with SAVT as PMU reporting is already in excess of 90 %. SAVT shall be started once SAT comments are cleared. SRLDC stated it should be taken up after reporting of 100 % PMU
Training		
Training in Analytical Application Software	PGCIL: Training would be conducted at IIT, Mumbai (tentatively) in November 2017 and the schedule would be communicated shortly.	IIT Mumbai has agreed to provide Training Program at SRLDC Bangalore on 21.11.2017
Permanent Wide Band redundant link between NLDC and SRLDC for URTDSM data exchange	SR-II agreed to provide the link by 30.11.2017.	Permanent Link being provisioned
Other issues		

Bandwidth enhancement by TANTRANSCO	Bandwidth enhancement by TANTRANSCO for Wide Band communication for URTDSM will be completed in week's time	Bandwidth enhanced by TANTRANSCO
<ul style="list-style-type: none"> PGCIL requested all constituents to submit revised PMU requirement, if any, for Phase-II considering availability of Wide Band nodes. 		

Table-III - GT Tap: Recommended/Implemented

Station	Unit	Present Tap And Corresponding Voltage(In kV)	Recommended Tap And Corresponding Voltage(In kV)	Remarks
ISTS connected Generators:				
Kaiga I	1 & 2	6 & 229.125	7 & 223.25	MVAR interchange as per Special Meeting to be ensured.
Kaiga II	3 & 4	3 & 409.5	4 & 399	
APGENCO/APSLDC				
IPPs of AP	It is recommended that all IPPS under APSLDC could be advised to change their Tap position corresponding to voltage level of 400 kV / 220 kV.			
KPCL/KAR SLDC				
Sharavathi	9 & 10	2 & 231	4 & 220	KPCL informed that at Sharavathi new GTs (Toshiba Make) were procured for Units 9 & 10 which were expected within one years. Tap change would be carried out after receiving the ICTs.
UPCL	1 & 2	4 & 409.5	5 & 400	Observed rotor teeth temperature issues. 2 x 125 MVAR reactors agreed in 39 th SCPSPSR. It was suggested that their MVAR absorption should be around 50-60 MVAR in case they are not able to change Tap.
TANGEDCO/TN SLDC				
Tuticorin TPS	1,2,3,4 5	8 & 243	230	All the GTs in TTPS are kept in Tap No. 10.
MTPS St.III	1	6 & 409.5	7 & 399	Provision of Bus Reactor is being carried out by GCC/TANTRANSCO, Salem. After the provision of Bus

				Reactor the GT Tap will be increased to 7(399 kV) from Tap- Reactor bay works were completed at present and allotment of reactor is awaited.
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Table –IV- Reactor Installation Status

Entity	Bus Name	Status	REMARKS		
KPTCL	Hoody	Reactor erected on platform.	October 2017		
	Nelamangala	Reactor erected on platform	December 2017		
Entity	Bus Name	Capacity in MVAR	Approved in	Type	Remarks
PGCIL	Yelahanka	2x63		Bus	Deferred as per 40 th SCPSSR. When Madhugiri line will come it will be expedited.
	Cuddapah	50 to 125	39 th SC		Yet to be awarded
APTRANSCO	Vemagiri	125	36 th SC	Bus	Vemagiri and Kurnool is expected by December 2017. LoA issued on 18.06.2017. Engineering and foundation works are under progress. Kalpakka – will be completed by March 2018 Awaiting for APERC approval for Chittoor Reactor. Commissioning by March 2018.
	Kurnool	125		Bus	
	Kalpaka	125		Bus	
	Chittoor	125	39 th SC		
	Vijayawada	125	39 th SC		
APTRANSCO / APGENCO	VTPS Stage IV	125	39 th SC		APGENCO informed that reactor enquiry was being taken up. It was noted that this reactor was different from the APTRANSCO

					reactor.
KPTCL	Davangere	125	39 th SC		KPTCL informed that they had taken up with CEA for reviewing. During studies no reactors had been considered at that area and arrived at 125 MVAR requirement. Now two reactors had come at Guttur and Talaguppa.
	Talguppa	125	39 th SC		
TANTRANSCO	Almathy	125	39 th SC		Specification Under Process
	Manali	125	39 th SC		
	Kayathar	125	39 th SC		
TANTRANSCO/ TANGEDCO	Mettur	125	39 th SC		To be diverted from Palavadi and works to be taken up.
TSTRANSCO	Mamidipalli	125	36 th SC	Bus	Reactor under transportation
	Sankarapalli	125		Bus	
	Mehboob Nagar	125		Bus	Charged on 09.09.2017
	Malkaram	125		Bus	Charged on 30.10.2017
TSTRANSCO/ TSGENCO	Srisailam LB	125	39 th SC		Was reviewed in Standing Committee.
NPCIL	Kaiga	2 x 125		Bus	December 2019. Financial approval had been received. They were in the process of floating the tender.
UPCL	Udupi	2 x 125	39 th SC		KPTCL had informed that the line is planned to be LILOed at Drinking water substation between UPCL and Hassan. Subsequently the studies would be put up to Standing Committee.

Table V- Reactive Power Planning

Utility	Reactive Power Planning	Voltage level	Remarks
APTRANSCO	Kadapa: 273.6 MVAR Vijayawada: 122.4 MVAR Visakhapatnam:151.2	On 33 kV side	14.4 MVAR commissioned 0 MVAR commissioned 2.2 MVAR commissioned

	MVAR		
APSPDCL	802 MVAR		114 MVAR commissioned
APEPDCL	276 MVAR		0 MVAR commissioned.
KPTCL	Bengaluru Tr. Zone:784 MVAR	12.1 kV	LOA issued. 30MVAR Installed
	Bagalkot Tr. Zone :258.1 MVAR	12.1 kV	Material supplied. Erection completed/under progress. 5.8MVAR Installed
	Hassan Tr. Zone 150.8 MVAR		Material supplied. Erection completed/under progress. 23.2MVAR Installed
	Mysore Tr. Zone :60.9 MVAR		29 MVAR commissioned
	Gulbarga Tr. Zone :98.60 MVAR		Installed Nill
	Tumkur Tr. Zone :281.3 MVAR	12.1 kV	46.4 MVAR commissioned. 34.8 MVAR EI approval awaited.
KSEBL	360 MVAR	66 kV	Works will be taken up after approval.
		11kV	
TANGEDCO	34 x 2.4 MVAR	11 kV	
	16 x 2.4 MVAR	22 kV	16 x 2.4 commissioned
	35 x 2.4 MVAR	11 kV	Tender to be floated.
	59 x 2.4 MVAR	11 kV	IPDS tender to be opened on 22.11.2017
	19x2.4. MVAR	22 kV	IPDS tender to be opened on 22.11.2017
	13 x 2.4 MAVR	110 kV	PO placed on M/s Shreem Electric Limited.
	53 x 2.4 MVAR	11/22 kV	RAPDRP tender to be floated
	101 x 2.4 MVAR	11/22 kV	Erode region: Tender to be floated
	32 x 2.4 MVAR	11/22 kV	Vellore Region: Tender to be floated
	82 sets of 11 kV, 2.4 MVAR Capacitor Banks in Coimbatore Region	11 kV	Tender under analysis
822 MVAR capacitors at Distribution level had been commissioned out of 931 MVAR capacitors planned.		Balance 109 MVAR to be commissioned. However, for further enhancement of Reactive Power, Capacitor bank provisions have to be arranged by Planning/Transmission wings.	

SR I	NGR bypass 400 kV Nellore-Thiruvalem line I & II ,Thiruvalem-Kurnool I & II, Kozhikode-Mysore I & II line reactors		November 2017
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Table –VI- ERS status

Transmission Utility	Requirement as per MoP	Existing	Status/Remarks
APTRANSCO	3	2	ERS III-submitted for approval of PSDF funding.
TSTRANSCO	1		Being retendered. Subsequently, it would be taken up for PSDF funding.
KPTCL	2	2	
KSEBL	1		Tenders to be floated. Being followed up.
TANTRANSCO	2		As per Minutes of BLTC held on 03.01.2017, Procurement is put on
PED	NIL	NIL	
PGCIL	4 (2 Nos. Additional)	4 (SR I & SR II is having 2 no. Each)	765 KV ERS (one each for SR-I and SR-II) tendering under progress.

Table –VII- Generating Units- Under Progress

Central Sector

Station	Unit	Installed Capacity MW	Scheduled date of synchronizing / commissioning	Remarks
NTPC				
Kudgi TPS Stage-I	I,II, III	3 x 800= 2400	Unit-I CoD from 31.07.2017 Unit-II. CoD by November 17 Unit-III CoD by Dec 17	NTPC had confirmed that full DC would be ensured from April 2018.
Telangana STPP Phase I		2 x 800	U-1 CoD Jan 2020 U-2 CoD June 2020	

Pudimadaka AP		4 x 1000	52 Months from Zero Date	85% share to AP. Zero date yet to be finalized. AP requested NTPC to firm up the zero date at the earliest. AP informed evacuation system would be developed by PGCIL
	<i>30th TCC: NTPC informed that the domestic coal was yet to be tied up. APTRANSCO informed that they would apply for LTA with CTU after the coal linkage is firmed up.</i>			
NLC				
New Thermal Power Project	I	500	April 2018	CTU had informed that for evacuation LILO of Neyveli - Puducherry and 400 kV D/C to Araliyur lines are planned. NLC had applied for LTA of 340 MW which could be managed with the LILO of Neyveli – Puducherry. Balance 600 MW would be catered by 230 kV system of TANTRANSCO. Araliyur S/S was being developed by TANTRANSCO and was expected by June 2018
	II	500	April 2018	
NPCIL				
BHAVINI				
Kalpakkam (PFBR)	I	500	Synchronization by 2017-18 COD by 2017-18 Synchronization by	
UMPP				
Krishnapatnam		3960 (6 x 660)		APEPDCL and PCKL had taken steps with their legal counsel to expedite the hearing before Honorable High Court of Delhi
Cheyur		4000		New bids would be called

NEW PROJECTS OF STATE SECTOR & IPP

SI No	Name of project	Located in	Capacity in MW	Commissioning Schedule /Remarks
1	Rayalaseema TPS ST-IV	AP	1 x 600	2017-18

2	Dr. NTPPS, Vijayawada	AP	1 x 800	2017-18
3	Krishnapatanam Stage II (U3)	AP	1 x 800	
4	Polaki	AP	4000 (5 x 800 MW)	
5	Edlapur	KAR	1 x 800	
6	North Chennai Stage III	TN	1 x 800	2019-20
7	North Chennai Stage IV	TN	2 x 800	Beyond 2019-20
8	Ennore TPS Exp	TN	1 x 660	2018
9	Ennore replacement	TN	1 x 660	2018
10	Udangudi Stage I	TN	2 x 660	2019-20
11	Uppur TPP (TBCB)	TN	2 x 800	2019-20
12	Manuguru PPP	Telangan a	4 x 270	U1 : 20.03.2017 U2: 20.05.2017 U3: 20.09.2017 U4:20.09.2017
13	Kakatiya TPP Stage III	Telangan a	1 x 800	2017-18
14	Kothagudem TPS Phase VII	Telangan a	1 x 800	
15	Damaracherla (Yadadri)	Telangan a	5 x 800	2018-19

IPPs

SI No.	Name of project	Locate d in	Capacity in MW	Commissioning Schedule /Remarks
1	Meenakshi PH-II	AP	2 x 350	2017-18 Untied: 640 MW
2	East Coast Energy Thermal	AP	2 x 660	2017-18 AP : 300 MW
3	Thermal Powertech (TPCIL) Unit-III	AP	1 x 660	2017-18
5	Godhna TPP, Janjir – Champa Dist, Chhattisgarh	For KAR	2 x 800	2017-18

Table VIII-SCADA/Communication

Item	Update as per Meeting on 24.10.2017
Frequent data outage (Central Sector)	
Maheswaram SCADA data:	Alternate data path via Mammidapalli-Ghanapur route: SR-I agreed to implement the same within 2

	weeks.
Warangal	Multiplexer problem, Spare was not available
LANCO	LANCO to assure
NTPL	<ul style="list-style-type: none"> ➤ NTPL assured that both the channels (BSNL & PLCC) would be made healthy. ➤ Provision of data through fiber channel: PGCIL confirmed that the same would be made available in the upcoming projects.
KKNPP analog data not reporting	<ul style="list-style-type: none"> ➤ A new RTU to be procured by KKNPP ➤ KKNPP requested Powergrid to give Technical specification ➤ KKNPP request to PGCIL for spare cards ➤ PGCIL put up the request to Management. ➤ KKNPP to explore the possibility of shifting the important inputs to the healthy card which had to be done in coordination with PGCIL / SRLDC.
Frequent data outage (State Sector)	
AP	Non-availability of SAS vendor to attend / rectify the gateway issues: an expert group for RTU/SAS issues is under formation
Manali SS(TANTRANSCO)	Due to conversion of 230 kV switchyard to 400 kV level and associated works in progress.
NCTPS stage-2 & Sriperumbdur SS(TANTRANSCO)	Alternate data link from POWERTEL is under procurement
AMC provision for SAS gateways	Needs to be incorporated and the same needs to be taken up by PGCIL , SLDCs and generating stations.
Data Discrepancy	Constituents and Powergrid agreed to resolve by 31.10.2017.
Backup SCADA System testing	
AP	Backup SLDC is planned to be established at Tirupati and they have received an estimate of Rs. 9.90 Crores.
TS	Received the estimate Rs. 15.7 Crores for setting of Backup Control Centre at Warangal of and the same is under process. A team would be visiting LD&C, PGCIL, Gurgaon for further deliberations.
Kerala, Tamil Nadu & Karnataka	May be completed by Dec 2017. Dates to be fixed in 137th OCC
Status of mapping of ADMS in SLDCs	

ICCP between NTAMC & RLDC	Proposal for finalizing ICCP between NTAMC & RLDC is under review by PGCIL Management and will revert back.
OPGW stringing on balance portion of KPTCL line	Except Hassan-Santhigrama (7.4 km) OPGW stringing completed. Alternate connectivity to SRLDC from Somanahalli had been made through. SRLDC stated that they would test the alternate connectivity.
Protection coupler replacement for Kayamkulam Transmission system	SR-II: Approval for the depository amount to be paid to KSEBL was under process. KSEBL: to examine the option of buyback of the old panels or handover the panels to PGCIL.
Modification in EMS package – TSTRANSCO	Had received estimate of Rs 47 lakhs and the contract was being firmed up.
Shifting the SCADA servers from old APSLDC at Kavadiguda (Secunderabad) to new SLDC at Gunadala, Vijayawada	APTRANSCO: Requested PGCIL to provide / reconfigure the existing backup SRLDC (New Delhi) ICCP link Kavadiguda-New Delhi to new SLDC at Gunadala. PGCIL: Will attend.
AMC for VC / UPS	SRLDC stated that they would ascertain from OEM (M/s GE) in coordination with LD&C.(SCOPE)
Hotline communication for Grid operation	Equipment availability at alternate manned locations would be made progressively and details would be communicated by 15.11.2017(SR II).
Simplification of the complaint management procedure for timely rectification of the faults	PGCIL was requested to take up the issue with M/s Orange. A procedure may be formulated to maintain the monthly/weekly availability status for certification of communication availability.
Permission for preventive maintenance	PGCIL requested all constituents to grant the timely permission
BOQ of SRLDC and actual supply	To be furnished by SR-II.
Orange Exchange integration with other Exchange available with TN.	SR-II stated that the details could be communicated and wherever technically feasible, the same would be integrated in coordination with the utility and M/s Orange.
Problems with speech circuits at SRLDC end for NTPC Ramagundam, NTPL, Vallur, NLC TS II, NLC TS II Expansion, LANCO Stage II, IL & FS etc.	Whenever payments are made to BSNL at respective ends, BSNL at other end had to inform BSNL, Bengaluru TD for necessary updation. Copy of the bill paid could be communicated to SRLDC.
KSEBL issues	

Alternate links, SNCP protection scheme for KSEBL's network.	PGCIL to attend the issues
Issues and pending points of Orange Exchange, SMS Exchange & Voice Logger.	PGCIL to attend the issues
NMS desktop operating system – to be replaced by Tejas.	Action from M/s BGR was required.
Remote alarm at SPS Protection Coupler at Madakathara	PGCIL to attend the issues
Handing over letter for earlier ULDC	To be received from PGCIL as the final payment has been made in June 2017.
Puducherry issues	
IP phones connected with the Hot line EPAX are experiencing frequent faults	POWERGRID informed that they would take up with M/s. Orange.
Normalization of the voice communication by shifting the existing voice traffic from the removed Alcatel MUX to the newly erected Valliant Mux	Necessary E&M and FXO cards to be supplied for Villianur and Bahour Auto substations; PGCIL to attend the issue
Non-availability of Yanam data	AP informed that the Yanam data was made through. SRLDC stated that Puducherry could consider providing Yanam data through a service provider (alternate route).

Table – IX FGMO/RGMO

	Issues as per Special VC/Meeting	Commitment/suggestion	Current Status
NTPC			
Ramagundam Stage I	Units 1, 2 & 3 needed to furnish the analysis for the incidents discussed during the meeting	Will submit within a week	In the 136 th OCC Meeting again requested to furnish. Yet to submit
Ramagundam Stage II & III	Overall station response was satisfactory during the incidents considered.	Logic to be shared as requested by all the generators	Logic details shared
Simhadri	RGMO switched OFF at technical minimum and recent event could	NTPC assured that modifications would be done accordingly.	

	not be captured due to gradual change of frequency.	SRPC/SRLDC:RGMO should be kept in service even at Technical Minimum.	
Talcher	RGMO status point yet to be provided, RGMO response of the station was very poor during the six incidents as per SRLDC analysis. Data not furnished by Talcher	NTPC agreed for providing the same by October end. RGMO needs to be implemented properly by the generator. Analysis to be submitted	In the 136th OCC Meeting it was informed that new RTU to be integrated to make available of status point.
TPCIL/SGPL	Performance of the generators during last six incidents was poor.	Generator informed that new logic implemented recently. Generator agreed for improving the performance further.	
VALLUR TPS:	Response was Poor (Generator mentioned that simultaneous schedule change was the reason for poor response during 2 incidents.)	NTECL suggested that an alarm could be provided for indicating RGMO incident and manual action needs to be taken by the operator.	Yet to be confirmed.
NTPL	Response was poor	New logic implemented. Future incidents response will be monitored and tuning will be done.	NTPL furnished the details of new logic vide E-mail dated 21.10.2017
NLCTSII	Responding mostly frequency rise (unloading of machines) incidents.	Insufficient margin available may be issue for non-response during frequency dip incidents. If same status of response continues, further reduction in Normative DC may be considered by deducting mines share from the station.	
NLCTSIIEXP:	Performance was good during some of the incidents and it was not consistent. Generator explained that units are still facing stability issues as they are of new	Units are still facing stability issues as they are of new technology and all best efforts would be put for improving the performance.	

	technology and all best efforts would be put for improving the performance.		
NLC TS Expansion	Discrepancy in RGMO status for both the units Non-performance	Needed to be rectified by the generator by 7th of October 2017 Technical issues associated with Unit-1, the same needs to be addressed through OEM.	In the 136 th OCC Meeting requested to remove the load limiter and confirmed the removal of load limiter. NLC informed that Powergrid is requested to help RGMO status issue.
IL & FS	Discrepancy in RGMO status point of Unit II was observed	Fine tuning carried out in July 2017.	
CEPL	Poor response	To be improved	
TANTRANSCO			
	List of Gas generating stations in TN control area for which RGMO implementation is mandated as per IEGC 5 th Amendment w.e.f 01.10.2017.	To be submitted	136 th OCC: TANTRANSCO have requested gas stations to give the action plan and it was informed that they are planning to approach CERC for exemption since gas availability is very less
	Details of hydro generating stations exempted from RGMO/FGMO implementation by Hon'ble CERC along with relevant orders to be forwarded by TNSLDC.	To be submitted	136 th OCC: Exemption has received for all irrigation based hydro stations and others yet to be received.
NCTPS ST1	Performance was poor and it was informed by generator that logic error corrected last week, performance for future incidents needs to be observed. GPS synchronization facility not available	Would be completed in three months.	

MTPS Stage III	Not responded SCADA data is getting struck frequently	Logic implemented on 28.06.2017. Performance Will be monitored. Data issue needed to be addressed suitably through OEM within one month	
MTPS Stage 1 U-2 and MTPS Stage III	GPS synchronization not available	Agreed to complete GPS synchronization within two months.	
TTPS Unit 5	RGMO not in service	To be put in service within a week after retrofitting.	In 136 th OCC Meeting it was noted that TTPS - Unit V came under RGMO on 26.09.2017.
In the 137 th OCC Meeting SRLDC had requested all the States(except Tamil Nadu) to finalize the dates for RGMO meetings and to inform accordingly(within three days) so that SRPC/SRLDC may also participate through VC.			

Data to be submitted

	Data to be furnished	By whom	To whom	Frequency	Comments
1	OCC approval requests for Generation Units Outages	Generators	SRPC/SRLDC	3 rd of every month	
It was emphasized that the maintenance schedule firmed up in OCC needed to be adhered by the generators since it had LGB, commercial, ATC/TTC, market and grid security implications. All generators needed to plan the maintenance and have periodic preliminary review meeting with the OEM / Maintenance Agency to avoid any rescheduling. Any unilateral decision by the generator could be considered as violation of IEGC.					
2	ISTS/State Sector Transmission Lines and Elements Outage Proposals	Transmission Licenses/Generators	SRPC/SRLDC	3 rd of every month	Outage proposals for the months of October/November 2017 in respect of Central and State Transmission lines and elements were approved and posted on SRPC website (http://www.srpc.kar.nic.in/website/2017/operation/plout137occ.xls).

An outage coordination group had been created (sr_outage_coordiantion@googlegroups.com) for review of the previous OCC approved shut downs (construction/critical).					
3	Availed and non-availed transmission elements report	SRLDC	Requestors/SRPC	3 rd of every month	
4	Comments/Reasons for non-availed the shut down.	Transmission Licenses/Generators	SRPC/SRLDC	6 th of every month	
Power purchase by the states was also being planned based on these approved outages and any changes may affect their LGB and in some cases ATC/TTC was also getting affected. The issue should to percolate to the operating level/ working level it should be emphasized that they should not deviate from the approved schedule.					
5	Annual Outage plan schedule vs Actual maintenance	All Generators	SRPC	Monthly	Information is required for the Annual Outage Plan Deviation Report being submitted to CERC. (CGS, State & IPPs) and Transmission Licensees
6	<i>Reasons for demand-supply gap and its variations</i>	Constituents	SRPC for further communication to MoP/CEA	Every month along with PSP	MoP/CEA specifically needed the reasons for load shedding like transmission constraints, distribution constraints, regulatory constraints viz the power purchase not allowed beyond an agreed cost or quantum, natural calamities, tripping of some of major transmission lines etc. All the constituents to furnish the information in the specified format. Even if load shedding is zero a 'Nil' report needed to be furnished on monthly basis.
7	LS(In MU/MW)	States	SRPC/SRLDC	Monthly	
8	Bilateral Purchases	states	SRPC/SRLDC	Monthly	
9	Installation /healthy capacitors	All Constituents	SRPC/SRLDC	Monthly	Installation & ensuring healthiness of capacitor banks at distribution level should be ensured by all the constituents.
10	MVAR Interchange /MVAR capability testing	All Generators/SLDCs	SRPC/SRLDC	4 th of every month	All the SLDCs to kindly monitor VAR absorption/injection of generating units in their respective control areas in real-time. Order of Hon'ble CERC dated 23.12.2009 merited attention in this regard. All agencies needed to provide required reactive compensation thus avoiding the need for exchange of reactive power to/from ISTS and maintain ISTS voltage within specific range.
11	AUFR & df/dt schemes	All constituents	SRPC/SRLDC	Updates if any changes	Details of the feeders implemented in AUFR & df/dt schemes along with the status of SCADA mapping as per the specified Formats.
12	detailed report of operation of AUFR	All constituents	SRPC/SRLDC	Daily basis	In accordance with clause 9 (2) of CEA (Grid Standards) Regulations, 2010. It was noted that only KSEBL and PED were submitting the daily report regarding operation of relays.

13	Upcoming Wind/Solar Projects	All Constituents	SRPC/SRLDC	Monthly	Procedure for RE Frameworks had been notified and is available at NLDC website. Progress of works of RE Generators and evacuation system are available in the minutes of the LVRT/RE Meeting held on 25.10.2017.
14	Power Flow Analysis under high RE scenario	All Constituents	SRPC/SRLDC	Monthly	A project has been undertaken jointly by POSOCO, USAID and NREL for power flow analysis under high RE scenario. <i>APTRANSCO needed to furnish the data and requested them to furnish the details at the earliest.</i>
14	Outage deviation report	All States/Entities	SRPC/SRLDC	Monthly	Outage plan deviation Generating Units/Transmission Elements of Southern Region needed to be submitted by all the concerned which is to be communicated to Hon'ble CERC.
15	Power Supply to Rural Areas	All DISCOMS	SRPC	first week of the month for previous month.	In the Meeting held at MoP on 09.04.2014 it had been decided to collect the data invariably from DISCOMs. It is requested that the data in this regard in the required format may please be arranged to be communicated to SRPC Secretariat at the following E-mail addresses: msssrpc-kar@nic.in/seopnrsrpc@kar.nic.in
16	Status of implementation of the recommendations of the Enquiry Committee			3 rd and 17 th of every month	
17	Energy Generation data Management from Renewable Energy Sources	All the states	To CEA with a copy to SRPC	Monthly	
18	Power supply hours in various States/UTs (Rural and Urban areas)	All States	SRPC	Monthly	For Replying to Parliament Questions: CEA Requirement
19	Physical and Cyber Security/Crisis Management Plan/Black Start Procedure		CEA/SRPC	Quarterly	Cyber Security : To be furnished to Chief Engineer, DPD, CEA, Sewa Bhavan, New Delhi-110066. Physical Security, other Mock Drills for CMP, Mock Drill for Black Start Restoration : Chief Engineer, DMLF, CEA, Sewa Bhavan, New Delhi-110066. Information required by CEA (vide letter dated 26.11.2013) regarding Security of power installations was to be furnished to CEA.
20	Declaration of availability and healthiness	All States	SRLDC/SRPC	Monthly	Validated certificates needed to be communicated in a timely manner.

	of various protection / defense mechanism				
21	Tripping Details/Reports	All the concerned	SRLDC	Within 24 hrs as per IEGC/CEA regulations. Para 29 of Hon'ble CERC Order dated 20.02.2014 in respect of Petition No.146/MP/2013 was brought to attention of the OCC.	
22	Compiled Telemetry status	Utility wise			As directed by Hon'ble Commission Hon'ble Commission vide order dated 19.12.2013 on Suo-moto petition No. 56/SM/2013 had directed all the utilities to provide the required telemetry within six months of this order. It was requested that MAPS, KGS & KKNPP may please furnish the compliance status of pending SCADA inputs the earliest. Details in this regard were available on SRLDC web site. For KKNPP only 2 points are pending w.r.t GT tap position. Re -tendering was going on and it will take 5 more months to complete the works.
23	Prolonged outage	States	SRPC/SRLDC	Monthly	All constituents were requested to convey the schedule of revival for the elements under prolonged outage to SRPC, which was to be reported to Hon'ble CERC on monthly basis. (CERC Order on petition no 146/MP/2013).
24	Nodal Officer list : Disaster Management	All utilities	SRLDC	Update	The updated status as per the information available with SRLDC has already been shared.
25	Presentation on Operational issues	All States/ Entities	SRPC/ SRLDC	5 th of every month	