Record notes of meeting on review of SCADA held at PFC on 27th Nov 2018 at PFC, New Delhi

A review meeting was held at PFC on 27th Nov 2017 and chaired by GM (IPDS). PFC at the outset, emphasized States to complete all SCADA projects strictly within the time extension granted by Monitoring Committee. Thus, it is imperative that utilities and SIAs shall co-operate work together to ensure completion of the projects within the given time else these projects will run into risk of non-conversion of loan into grant. PFC further impressed upon the following advisories issued earlier to facilitate the work:

- Ensure dedicated SCADA team for project implementation as well as Control centre operations and field activities.
- Expedite installation of SCADA enablers RMU, Sectionizer, FPIs and keep Substation SCADA ready. Provide locational details of SCADA enablers.
- Expedite end to end testing for RTU / FRTU and ensure timely and progressive payments as per milestones for proper cash flow.
- Facilitate GIS based DMS data to SIA. In case of problem in GIS data from ITIA, DMS network with single line diagram with network parameters may be drawn & populated for DMS functions.
- Get feeder and town-wise SAIFI/ SAIDI reports generated from SCADA.
- Ensure proper connectivity of network with NBSP.
- Keep contract with SIA live.
- Projects are unlikely to be extended beyond time given by Monitoring Committee, hence DISCOM should work towards completion of project within the approved extended timelines.

DISCOM to carry out regular audit of Network security / Cyber security standard compliance for IT & SCADA systems commissioned under R-APDRP from CERT.IN empanelled agencies.

The above advisories are reiterated and are without prejudice to terms and conditions and scope of Contract between SIA and utility.

PFC informed that TPEA-IT(SCADA) template for verification of SCADA works under R-APDRP is already available on IPDS portal. DISCOMs should immediately make request for verification of SCADA works, where the following activities have been completed.

- Successful completion of Site Acceptance test (S.A.T)
- Successful completion of System Availability test

Also, DISCOMs shall ensure that all changes are approved incl amendment of LoA, all approved documents /change orders are available and keep contract extended Live.

PFC made detailed presentation and following state-wise issues were discussed and concluded as under:

Common points:

- Wherever, FRTUs are installed and cannot be charged due to delay in provisioning of auxiliary supply from DT, Lines by Utilities, the same may be end to end tested for I/O points and mapping at control centre, with alternate supply by DISCOM.
State-wise review

**Madhya Pradesh- West (Project Completion date: 31st Dec, 2018)**
- Balance FRTUs at Ujjain (2) and Indore (65), will be end to end tested by 30th Nov and 7th Dec 2018 respectively.
- Completion of Ujjain and Indore was committed by 7th & 15th Dec 2018 respectively.

**Rajasthan- Jaipur DISCOM (Project Completion date: 31st Dec, 2018)**

**Kota**
- All RTUs have been commissioned. However, balance 118 FRTUs are to be installed and 240 FRTUs are to be End to End tested and by Utility and SIA. SIA stated that progress has been slowed due to non-availability of auxiliary power supply from DT for RMUs. Jaipur DISCOM confirmed that the same will be made available by 10th Dec 2018.
- PFC stated that in the meantime, all remaining 118 FRTUs need to be installed by SIA and end to end test shall immediately commence and shall be finished progressively upto 20th Dec 2018.

**Jaipur**
- PFC informed that all balance 37 RTUs (incl 19 retrofitted) are to be end to end tested & commissioned or else the same may be short closed, if not done by 31st Dec 2018.
- PFC informed that the balance 472 FRTUs are to be installed & 595 FRTUs are to be End to End tested or else the same may be short closed, if not done by 31 Dec 2018. SIA stated that progress has been retarded due to non-availability of auxiliary power supply from DT for RMUs. Jaipur DISCOM stated that the same will be made available by 15th Dec 2018.
- PFC informed that in the meantime, all remaining RTUs /FRTUs should be installed by SIA and end to end test shall immediately commence and to be finished progressively upto 31st Dec 2018.

**Common points**
- Jaipur DISCOM confirmed to provide DMS network data by 30th Nov 2018. SIA to populate DMS network starting from few interconnected feeders to all and SAT and availability test to be commenced immediately.
- PFC asked DISCOMs and SIAs to increase teams of DISCOM and SIA to complete the work in line with above committed timelines.
- DISCOM confirmed to complete the projects by 31st Dec 2018.

**Odisha (Project Completion date: 31st Dec, 2018)**

**Bhubneshwar**
- Balance 2 RTUs will be installed in S/S is being constructed under IPDS. PFC stated to restrict to the installation to the substations sanctioned under R-APDRP to avoid further delay.
- Balance 13 FRTUs are to be installed & 36 FRTUs are to be end to end tested by Utility.
Cuttack
  - Balance 4 RTUs & 93 FRTUs are to be installed & End to End tested by Utility

Common points
  - DISCOM confirmed to complete above two projects by 31st Dec 2018.

Punjab (Project Completion date: 31st Dec, 2018)

Jalandhar, Amritsar & Ludhiana
  - PSPCL stated that all balance 42 RTUs are to be End to End tested and pending due to permission denial by PSTL in 20 /S under their jurisdiction. Further, end to end test of all installed FRTUs is held up due to non-availability of lines to be provided by PSPCL.
  - PFC stated that the same shall be taken at highest level by PSPCL or else the same may be short closed, if not done by 31 Dec 2018 as there will not be sufficient time left for utility for TPIEA-IT verification.

Kerala: (Project Completion date: 31st Dec, 2018)

Ernakulam, Kozhikhode, Thiruvanthpuram
  - KSEBL informed that the project progress was retarded due to recent storms /floods and virus outbreaks in the state and hence, delay in FRTU work is being observed.
  - PFC stated that end to end test for all balance FRTUs at Thiruvanthpuram (1420), Ernakulam (644), Kozhikhode (771) shall be conducted & completed by 31 Dec 2018. SIA and utility to mobilize teams for end to end tests accordingly.
  - DISCOM confirmed to complete project of Ernakulam in Dec18, Kozhikhode in Jan19 and Thiruvanthpuram in Feb19.
  - DISCOM also informed that agency to populate GIS data has been finalized and the work will be progressively completed by 31 Dec, 2018.

Puducherry: (Project Completion date: 31st Mar, 2019)
  - As there was no representation from PED, SIA confirmed that balance 22 FRTUs will be end to end tested by 15 Dec & SAT will be over 31 Dec 2018.

J&K (To be awarded by 31st Dec 2018)
  - JKPDD informed that submission of bids is due on 3 Dec 2018 and accordingly the same will be awarded by 31st Dec 2018.

Meeting ended with thanks to the chair

List of participants attached at Annexure 1
Annexure 1- List of Participants

PFC
1. Sh Vijay Agarwal, GM
2. Sh Ali Shah, AGM
3. Sh Arun Kumar, AGM
4. Sh S.K.Srivastav, AGM
5. Sh Rajiv Pharlia, DGM
6. Sh A.P.Tiwari, AGM
7. Sh Prashant Moundekar, SM
8. Sh Suresh Babu, SM

Discos
1. Sh P.Swain, SGM, CESU, Odisha
2. Sh R.A.Sharma, SE-IT, JVVNL
3. Sh Gopal Chaturvedi, XEN-IT, AVVNL
4. Sh H.R.Singh, SE, PSPCL
5. Sh K.S.Dosanjh, SE, PSPCL
6. Sh Sunil Patodi, SE, MP-West
7. Sh Ravichandran, CE, KSEB
8. Sh J Sathyarajan, DY CE, KSEB
9. Sh Sharjeel Lalla, XEN-IT, JKPDD

SIA
1. Sh Anil Anand, Dongfang
2. Sh Nitin Gupta, Dongfang
3. Sh Gurpreet Singh, Dongfang
4. Sh Rahul Singh, Dongfang
5. Sh Ajay Biswas, Siemens
6. Sh Simanta Bhowal, Siemens
7. Sh Kaushal Shivanulu, Siemens
8. Sh Palanivasaangam, Schneider
9. Sh Ashish Korde, Megawin