

**Record Notes of discussions held with Utilities during review of progress of RAPDRP Part A-IT, IT Phase-II and ERP implementation under IPDS, on 27.11.2018 at PFC, New Delhi**

A meeting was held with Utilities on 27.11.2018 at PFC office, New Delhi to review the progress of RAPDRP Part A-IT, IT Phase-II and ERP Implementation under IPDS.

Director (Com.) in his welcome address mentioned that although, there has been appreciable progress in IPDS system strengthening works, but the progress of IT enablement work is lagging and requested all Utilities to gear up to meet the various challenges being faced during implementation of IT Ph.-II & ERP.

ED (IPDS) reviewed Utility-wise progress of RAPDRP Part A-IT, IT Phase-II and ERP implementation, associated issues and expectations from utilities. She highlighted that the data of urban feeders covered under IT phase-II is still not available on NPP and requested States to expeditiously award the projects and ensure data of all the feeders of IPDS towns on NPP by 31<sup>st</sup> March, 2019. For this, priority should be given on metering of feeders and respective boundary points. She further said that progress of the works will be strictly monitored on monthly basis.

**Presentation on Best Practices by Uttarakhand**

Uttarakhand being the first State to award the IT Phase-II Project, made a detailed presentation on the best practices adopted to expedite the implementation of the project. For faster implementation of the project UPCL broke the entire scope of work into two parts, so that Feeder data are made available at NPP in least possible time, which was also emphasized in the Advisory issued by PFC in Feb. 2017. The salient scope of work, as splitted by UPCL is as under:

<b>Priority Work for NPP Integration</b>	<b>Balance work for Town Go-Live</b>
<ul style="list-style-type: none"><li>• Town Integration with Data Center</li><li>• Readiness of Feeder-wise Consumers</li><li>• GIS Mapping at Substation for Feeder and Boundary points</li><li>• Meters &amp; Modems at Feeder &amp; Boundary Points</li><li>• Generation of Feeder-wise Energy Accounting, Loss Reports</li><li>• PT Rewiring for SAIFI/SAIDI</li><li>• Creating Master Data at NPP</li><li>• Uploading Transaction Data at NPP</li></ul>	<ul style="list-style-type: none"><li>• Digitization of Satellite Imagery</li><li>• HT &amp; LT Network Survey &amp; Consumer to Pole tagging</li><li>• Meters &amp; Modems at DTs</li><li>• Energy Accounting up to to DT and generation of meaningful DT-wise Loss report</li><li>• Declaring Town Go-Live</li></ul>

UPCL further informed that for successful & speedy implementation of IT Phase-II, coordination between the utility teams executing system strengthening works & IT team is very crucial to have proper planning at the end of ITIA for GIS & modem installation works in order to avoid multiple visits & related data migration activities. They also had monthly review of all IT projects by MD, UPCL and Quarterly Review by Board of Directors/DRC, which resulted in speedy implementation of IT Phase-II.

ED (IPDS) asked all other Utilities to learn from the experiences of UPCL and ensure the data availability on NPP and complete the project of IT Phase-II.

**Presentation on Feeder Monitoring by PFC on NPP**

PFC made a presentation to sensitize Utilities on issues and challenges in Urban Distribution Feeder Data Monitoring system on NPP and Data sanitization issues as below:

- 1) Non-availability of Feeder data at regular interval; Utilities were requested to upload Feeder data on NPP at the end of every month
- 2) Feeder data sanitization is mandatory (conflicting/blank/zero/negative values, abnormal values in Billing/Collection efficiencies, AT&C loss values etc.)

- 3) Regular updation of Feeder Manager details and linking of Feeders with Feeder manager
- 4) Need for creation and updation of Master Data for non-RAPDRP town feeders. Creation of master data can be taken-up immediately.

ED (IPDS) remarked that the data being uploaded on NPP must be seriously validated and checked as this data is being used for multiple purpose including reviews at the highest level in the Govt. of India.

### **Review of RAPDRP Part-A IT, IT Phase-II & ERP**

PFC informed that IT Phase-II projects were required to be awarded within 3 months of sanction and implementation of priority items related to availability of Feeder data on NPP within 9 months of Award. As per the present progress of work, projects have been awarded fully only in UPCL (UK) and partially in 14 Utilities (AP, TS, Punjab, Haryana, Kerala, MH, UP, WB). All other Utilities are yet to float NIT / conclude the bids and award the project.

Similarly, ERP projects are required to be awarded within 6 months of sanction and completion within 24 months of Award, whereas till date awards have been placed fully in 5 Utilities and partially in 4 Utilities only.

PFC further re-iterated that as per the requests of Utilities, they have been facilitated with the following options for better and faster implementation of IT enablement projects-

- Implementation of IT and ERP projects on Turnkey or Partial Turnkey mode of execution. They may split the work, if required and bid out for better response & faster implementation of work.
- States can make suitable changes in SBD (with the approval of DRC) for quickly awarding the projects keeping in view the future operational convenience, Quick System trouble shooting and smooth integration with the existing system.
- Due diligence may be done for getting the work done through any of existing Contractors after appropriate DRC approval, if such an award is permissible under the tendering/award procedures of the State.

***At the outset, ED (IPDS) emphasized their concern over very slow progress pertaining to tendering, award and implementation of these projects by Utilities in-spite of above facilitations provided by PFC/MoP.***

PFC further informed that Discoms, who have already appointed PMA, may extend scope of existing PMA to include work related to IT Phase-II/ERP or appoint another agency as they may decide. In case Discom considers that they have competence to implement without PMA, they may write to PFC for suitable consideration. Utilities of Bihar, Gujarat, Haryana, Jharkhand, J&K, Rajasthan, Mizoram and Arunachal Pr. were requested to update status of appointment of PMA. Haryana informed that they will appoint PMA during project implementation phase.

Many Utilities requested for permitting hosting of DC/DR Infrastructure on cloud and proposed for funding of OPEX under IPDS. It was clarified that OPEX based Solution like cloud hosting has many advantages, as well as many associated issues. Accordingly, MoP has constituted a Committee under the Chairmanship of Chief Engineer (CEA) to study the issues of OPEX based solutions through Gol capital grants. However, as per present guidelines, deployment on cloud is OPEX (revenue) expenditure and its funding under IPDS may not be feasible. ***PFC re-iterated that irrespective of decision of funding of Cloud through Gol capital grants, Utilities need to ensure that the sanctioned projects should not be delayed on this ground.***

PFC made a presentation on the progress of RAPDRP Part-A IT, IT Phase-II and ERP projects. The action points and timelines that emerged for various activities during the review and discussions with Utilities are as under:

## Utility/State-wise review:

### Andhra Pradesh:

- Award of balance work of MBC to be expedited by APEPDCL.
- Award of ERP HW to be placed by 15.12.2018 by APEPDCL and by 31.12.2018 by APSPDCL.
- Supply & installation of Town infra materials and meter/modem to be expedited by both Discoms of AP
- Completion of IT Phase-II work in 8 towns of APEPDCL and 11 towns of APSPDCL to be expedited for completion by Mar.2019.

### Telangana:

- Award of balance work of CCC software to be expedited by Telangana.
- RfP for ERP (SW+HW) to be issued by 15.12.2018 by both Telangana Discoms.
- Supply & installation of Town infra materials and meter/modem to be expedited by both Discoms of AP
- Completion of IT Phase-II work in 12 towns of TSNPDCL and 18 towns of TSSPDCL to be expedited for completion by Mar.2019.

### Bihar:

- Financial closure for RAPDRP Part-A IT projects to be submitted
- PMA for ERP and IT Phase-II not appointed. Utility informed that they are planning for implementation of IT in entire state
- Even after 10 months of sanction, NIT not yet floated for IT Phase-II/ERP, **to be expedited**

### Chhattisgarh:

- NIT for IT Phase-II issued on 01.01.2018, but no response even after four rounds of extension. They decided to split the work into 4 Parts and NIT issued on 12.07.18, with revised BoD as 30.11.18. NIT for ERP up-gradation also issued on 30.5.2018, with same BoD.
- Proposal for change in Payment terms is put up to SLDR. Tender opening will be done after approval of SLDR, meeting to be scheduled. BoD for all above extended till 31.12.2018.

### Gujarat

- PWC will be appointed as PMA after approval of MD.
- After **20 months of sanction of IT Phase-II and 9 months of sanction of ERP**, UGVCL (on behalf of all Discoms) floated combined NIT for IT Phase-II and ERP in Nov. 2018, with revised BoD as 12.12.2018. **Award process to be expedited.**

### Haryana

- TPIEA-IT verification report is awaited from NTPC and closure pending from Utility
- Work spitted in 5 parts. IT infra work (DC, DR and Town) awarded and work is in progress.
- **Award of MDAS, GIS and Data migration work** to be expedited.
- ERP DPRs to be submitted along with justification on observations

### HP

- System and HT consumer meters along with CT-PT units & Spot Billing Machines procured.
- ERP Software users & payroll licenses procured
- RFP for IT Phase-II issued on 27.09.2017, but no response even after six extensions. Fresh RFP for IT Phase-II & ERP HW issued on 28.07.2018, bid submission date extended upto **15.12.2018, Bid process and Award to be expedited.**

## J&K

- TPIEA-IT Verification to be expedited and Financial Closure Pending for all 30 towns
- **No progress in IT Phase-II, even after 16 months of sanction.**

## Jharkhand:

- TPIEA-IT Verification to be expedited and Financial Closure Pending for all 30 towns
- **No progress in IT Phase-II, even after 12 months of sanction.**
- JBVNL informed that they are going for Standard Enterprise Solution (for whole State including RAPDRP and IPDS towns) under **JPSIP (Jharkhand Power System Improvement Program) financed by World Bank.**

## Karnataka:

- BESCOM (on behalf of all Discoms) floated NIT for IT Phase-II & ERP (BESCOM) in Mar. 2018, but no response received.
- Re-tendering shall be resorted after addressing the challenges in the current RFP regarding Payment Structure, Scope of Work etc.
- ERP up-gradation work (HR Module) in CESCO was awarded in Jun. 2018 and in progress.

## Kerala:

- Revised last tranche claims for Part-A IT projects as per format to be re-submitted
- LOA for SW portion, mainly for customization of GIS & MDAS & modems issued on 17.11.2018. Ring fencing work is in progress.
- HW portion (DC, DR and Town infra) to be tendered in Jan 2019.
- ERP RFP floated on 26/11/2018, with BoD as 28.12.2018

## Madhya Pradesh:

- Common NIT for IT Phase-II by MP-W was issued on 04.04.2018. As various clauses had deviation in accordance to PFC guideline. RFP was withdrawn. Revised NIT was issued on 06.07.2018 as per PFC guideline for on premise DC & DR hardware.
- Further, as per decision of Discom, RFP is now revised to take facility of Govt. empanelled cloud. Accordingly, NIT has been issued on 15.09.2018, with revised BoD as **10.12.2018** due to no response. **NIT for GIS, MDAS yet to be issued. Bid process & Award to be expedited**
- ERP up-gradation bids in MP-C is under evaluation, **Award to be expedited. MP-East is to issue NIT**

## Maharashtra:

- GIS, Meter, Modem, CCC work has been awarded. **Progress is slow, to be expedited.**
- Town IT Infra work awarded on **29.11.18.**
- DC/DR Hardware (Cloud tender) is floated, not yet finalised.
- Supply of ERP HRMS/ Payroll Software for ERP awarded. Award of implementation work under process, no response even after three extensions. Revised QR, payment terms is under approval, award expected within 2 months, **Need to be expedited.**

## Odisha:

- RAPDRP Part-A IT in CESU: Pilot town Go-Live by Dec. 18 and all town Go-Live by Feb. 19.
- IT Phase-II, NIT for NESCO, WESCO & SOUTHCO issued on 29.03.2018, revised BoD is **10.12.2018**
- CESU tenders for IT Phase-II and ERP not yet issued, **to be expedited**

## Punjab

- Work for IT Phase-II was splitted and awarded for GIS, Hardware and Licenses. Hardware installed and commissioned at DC/DR. GIS survey is in progress.
- Award of works for commissioning of WAN & LAN, meter, modems & DCU and migration of database of consumers is delayed, **to be expedited.**
- BoD for ERP tender is 18.12.2018, **award to be expedited**

#### Rajasthan:

- **Data Centre to be re-instated immediately**, to ensure back-up facility & TPIEA verification
- **Ensure AMR** for Feeder, Boundary and DTs (meter, modem/DCU and SIM) by 31.12.2018.
- **Ensure functioning of all modules, UAT** etc. to start verification process by 31.12.2018
- Ajmer and Jodhpur Discoms awarded ERP work to DoIT&C. HRM Module shall be Go-Live in Jan-2019 and rest by Dec-2019. Utilities to ensure workability, effectiveness and performance of ERP solution developed by DoIT&C. **No progress and any action plan for IT Phase-II.**
- Jaipur Discom extended ERP bid 8 times and dropped due to no response. They need to finalise further course of action within one week.

#### Uttar Pradesh:

- Final TPIEA verification report awaited from NTPC and closure pending with Utility.
- Under IT Phase-II, modems installation work for 11kV Feeder meters are in progress in MVVNL, DVVNL, PaVVNL and PuVVNL, along with integration of existing MDAS.
- DT meter and modem tender (centrally for all Discom) was cancelled due to technical criteria not met and re-tender published on 29.10.18, with BoD as 04.12.18, **need to be expedited.**
- GPS based survey & asset mapping tender floated by UPPCL(centrally for all Discoms) and under evaluation, **need to be expedited.**
- ERP tender (centrally through UPPCL for all Discoms), published on 20.06.2018, revised BoD is 26.11.2018. 4 Bids have been received, **award expected by Jan.2019.**
- **No progress in IT Phase-II in KESCO, to be expedited**

#### Uttarakhand:

- Hardware installed at DC/DR/CCC, GIS survey completed in 37/38 No. Substation & Network Survey in 13/36 towns.
- Integration of all Town Feeder & Customer Care Data with National Power Portal shall be completed by Mar. 2019. All towns shall be declared Go-Live by Jun. 2019 (provided system strengthening works are completed as per agreed plan i.e. Dec.2018).
- ERP: RFP published on 15.10.2018, with BoD as 21.12.2018 & tentative start of work by Feb.2019.

#### West Bengal

- Storage for DC and DR purchased and work completed
- Tender floated for the remaining portion (DC/DR work, MDAS, GIS). No response in earlier tenders. Latest tender BoD is 08.12.2018, **extremely delayed. Award to be expedited.**

#### NE States (Assam, Arunachal Pr, Manipur, Meghalaya, Mizoram, Nagaland and Tripura):

Meeting was attended by Assam and Tripura representatives.

- ***Part-A IT Completion and TPIEA-IT verification work:***
  - **Arunachal Pr:** 03/10 towns to be declared Go-Live. TPIEA yet to start verification
  - **Assam & Tripura:** Draft TPIEA report submitted, TPIEA to incorporate comments and submit final reports. Final claim and BoQ submission pending by Utility

- **Manipur & Meghalaya:** TPIEA completed field verification; draft report yet to be submitted.
- **Nagaland & Mizoram:** TPIEA verification is in progress
- **IT Phase-II:**
  - DRC approval pending for Arunachal Pradesh
  - Consent for common RFP for IT Phase-II was given by NE States to APDCL, Assam
  - APDCL to finalize common RFP in consultation with NE states in JEC meeting
- **ERP:**
  - Nagaland: ERP RFP under preparation, NIT will be floated in Dec.2018
  - Tripura: Project Management Consultant will be appointed by 10.12.2018 and ERP (S/W, H/W) to be awarded within 3 months thereafter.

### **Real Time Data Acquisition System (RT-DAS)**

PFC gave a brief presentation on new scheme for SAIDI/SAIFI measurement on real time basis through Real Time Data Acquisition System (RT-DAS) approved by Monitoring Committee. PFC briefly explained important technical highlights including QR, Payment terms etc. and stated that model technical specification and guidelines are available on IPDS portal.

It was informed that DPRs of 29 Utilities in 18 states have been put up to Monitoring Committee for their consideration. Sanction letter for the same shall be issued soon. Balance Utilities were requested to submit their DPR on priority, so that sanction can be issued and implementation may start immediately.

***All States/Utilities were requested to upload/update the award details and progress on IPDS portal on regular basis, at least once in a week. Utilities were also requested to learn from the experiences of UPCL and ensure the data availability on NPP and complete the project of IT Phase-II, related to availability of energy flow information. Many Utilities during the review meeting assured to make the Feeder Data available on NPP in line with UPCL or utilising existing resources/departmental execution etc. The Number of Feeders and timeline for the availability of Feeder Transaction data is detailed in Annexure-I. All such Utilities are requested to upload Feeder Master Data on NPP portal by end Dec.2019 in line with the R-APDRP towns.***

Meeting ended with vote of thanks to chair.

List of participants is enclosed at **Annexure-III**.

**Annexure-I (Expected availability of Feeder Data on NPP by March 2019)**

SI No	State	Utility	No. of towns covered	Total no. of 11 KV Feeders	Feeder Data on NPP as Committed by Utilities	Timeline
			(Nos.)	Nos.	Nos.	
1	Andhra Pradesh	APEPDCL	8	24	24	Dec. 2018
2		APSPDCL	11	100	100	Feb. 2019
3	Telangana	TSNPDCL	12	51	51	Jan. 2019
4		TSSPDCL	18	93	93	Jan. 2019
5	Bihar	NBPDCL	40	251	251	Feb. 2019
6		SBPDCL	23	71	71	Feb. 2019
7	Chhattisgarh	CSPDCL	160	617	-	-
8	Gujarat	DGVCL	8	21	21	Available
9		MGVCL	21	56	56	Available
10		PGVCL	33	65	65	Available
11		UGVCL	21	58	58	Available
12	Haryana	UHBVN	17	58	58	Mar. 2019
13		DHBVN	25	68	68	Mar. 2019
14	Himachal Pradesh	HPSEBL	40	194	194	Mar. 2019
15	Jammu & Kashmir	J&K PDD	53	120	-	-
16	Jharkhand	JBVNL	14	55	-	-
17	Karnataka	BESCOM	20	44	-	-
18		CESC	21	31	-	-
19		GESCOM	21	44	-	-
20		HESCOM	44	59	-	-
21		MESCOM	18	43	-	-
22	Kerala	KSEBL	21	149	149	Mar. 2019
23	Madhya Pradesh	East Discom	115	230	-	-
24		Central Discom	77	316	-	-
25		West Discom	87	235	-	-
26	Maharashtra	MSEDCL	124	668	334	Mar. 2019
27	Odisha	CESU	16	43	-	-
28		NESCO	19	124	-	-
29		SOUTHCO	35	136	-	-
30		WESCO	30	198	-	-
31	Punjab	PSPCL	97	461	115	Mar. 2019
32	Rajasthan	JdVVNL	25	161	80	Mar. 2019
33		AVVNL	36	144	72	Mar. 2019
34	UP	KESCO	1	445	-	-
35		PaVVNL	79	348	174	Mar. 2019
36		PuVVNL	112	1001	500	Mar. 2019
37		MVVNL	137	1216	608	Mar. 2019
38		DVVNL	137	756	378	Mar. 2019
39	Uttarakhand	UPCL	36	67	67	Mar. 2019
40	West Bengal	WBSEDCL	49	321	10	Mar. 2019
41	Assam	APDCL	21	53	-	-
42	Arunachal	Arunachal-PD	16	78	-	-
43	Manipur	MSPDCL	18	27	-	-
44	Mizoram	Mizoram-PD	12	36	-	-
45	Nagaland	Nagaland-PD	3	26	-	-
<b>Grand Total</b>			<b>1931</b>	<b>9362</b>	<b>3597</b>	

## **Annexure-II: List of Participants**

### **PFC**

<b>Sl. No.</b>	<b>Name</b>	<b>Designation</b>
1	Sh P.K.Singh	Director (Comm)
2	Smt Palka Sahni	ED (IPDS)
3	Sh Vijay Agrawal	GM
4	Sh A.K.Papneja	AGM
5	Sh Arun Kumar	AGM
6	Sh A.K.Srivastav	AGM
7	Sh Ali Shah	AGM
8	Sh Sanjay Rai	AGM
9	Sh P.S.Goswami	AGM
10	Sh S.K.Srivastav	AGM
11	Sh A.P.Tiwari	AGM
12	Sh Rajiv Pharlia	DGM
13	Sh Akhil Gupta	DGM
14	Sh Prashant Moundekar	SM
15	Sh Ashok Rathore	SM
16	Sh Y.Khanduja	SM
17	Sh Suresh Babu	SM
18	Sh Kamalpreet Singh	Mgr
19	Sh Sanjesh Banjare	Mgr

### **Utility officials**

<b>Sl. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Discom</b>
1	Sh. Sandip Ganchoadhuri	Sr. Manager	TSECL
2	Sh. Basabjit Gupta	Sr. Manager	TSECL
3	Sh. Ashok Kumar	SE	UPPCL(DVVNL)
4	Sh. Shurjeel Gani Lala	CEO -IT	JK-PDD
5	Sh. Gopal Chaturvedi	Xen-IT	AjVVNL
6	Sh. Vikas Gupta	EE-RAPDRP	UPCL
7	Sh. C. Srinivasa Murthy	GM-IT	APEPDCL
8	Sh. M.H.N.Prasad	AE-IT(SAP-PM)	APEPDCL
9	Sh. Kulwinder Singh	SE-IT	PSPCL
10	Sh. Harpreet Raj	Sr.Xen-IT	PSPCL
11	Sh. R.A. Sharma	SE-IT	JaVVNL
12	Sh .Dbojyoti Dasgupta	CE IT	WBSEDCL
13	Sh. Soumya Samanta	SE-E, IT&C Dpt	WBSEDCL
14	Sh. N.U.More	DGM(IT)	MSEDCL
15	Sh. Vipin Dhagat	Chief CS&A	MPPoKVVCL
16	Sh. N.D.Chaudhri	SE	DGVCL
17	Sh. J.R.chaudhri	EE(EMC)	UGVCL
18	Sh. Kuldeep Sharma	DBA	NBPDCL
19	Sh. Ram Praksah	SE(IT)	HPSEBL
20	Sh. Ajay	Astt. Ex. Engineer	HPSEBL
21	Sh. Manish Dhariwal	XEN	UHBVN
22	Sh. Kiran Kumar	AEE	GESCOM
23	Sh. Prem Kumar	DBA	SBPDCL
24	Sh. Sujeet Kumar	EEE	NBPDCL
25	Sh. Prabhat	ESE	NBPDCL
26	Sh. Vineet Kumar	EEE	SBPDCL
27	Sh. N. Damodara	ADE-IT	APSPDCL
28	Sh. Divanshu Bele	Manager -IT	MPMKVVCL



