


फ़ैक्स/स्पीड पोस्ट /FAX/SPEEDPOST

भारत सरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति बेंगलूरु - 560 009	 सत्यमेव जयते	Government of India Central Electricity Authority Southern Regional Power Committee Bengaluru - 560 009	
Web site: www.srpc.kar.nic.in	e-mail: mssrpc-ka@nic.in	Ph: 080-22287205	Fax: 080-22259343
सं/No. SRPC/SE-II/2017		दिनांक / Date	11.10.2017

To: As per list enclosed

**Sub:** Meeting on URTDSM and SCADA/Communication issues to be held on 24.10.2017

It is proposed to convene a meeting on URTDSM and SCADA/Communication issues at **10:30 hrs of 24.10.2017 (Tuesday) at SRPC, Bengaluru**. Agenda is enclosed. It is requested that specific issues, if any, could be communicated in advance (**by 20.10.2017**) for fruitful deliberations.

It is kindly requested to make it convenient to attend the meeting.

धन्यवाद /Thanking you,

भवदीय / Yours faithfully



(असित सिंह / Asit Singh)

अधीक्षक अभियंता / Superintending Engineer

**Mailing List:**

1. ED, LD&C, PGCIL, Gurgaon
2. AGM, SRTS-1, PGCIL, Secunderabad
3. AGM, SRTS-2, PGCIL, Bengaluru
4. General Manager, SRLDC, Bengaluru
5. Chief Engineer (LD) APTRANSCO, Hyderabad
6. Chief Engineer (LD), KPTCL, Bengaluru
7. Chief Engineer (SO), KSEBL, Kalamassery
8. Chief Engineer (O), TANTRANSCO, Chennai
9. Chief Engineer (P&C), TANTRANSCO, Chennai
10. Chief Engineer (LD), TSTRANSCO, Hyderabad
11. Superintending Engineer-I, Puducherry
12. AGM, SRHQ, NTPC, Secunderabad
13. ED, Ramagundam STPS, NTPC, Ramagundam
14. CGM, Simhadri STPS, NTPC, Simhadri
15. GM, Talcher STPP, NTPC, Talcher
16. GM, NTECL, Vallur
17. GM, TS-I, NLC, Neyveli
18. GM, TS-II, NLC, Neyveli
19. GM, TS-I Expansion, NLC, Neyveli
20. GM, TS-II Expansion, NLC, Neyveli
21. DGM (Elec), NTPL, Tuticorin
22. OS, Kaiga I & II, Karwar
23. OS, Kaiga III & IV, Karwar
24. OS, MAPS, Kalpakkam
25. OS, KKNPP, Kudankulam
26. Senior Vice President, JSWEL, Toranagallu
27. General Manager (P & M), Adani Power Limited(UPCL), Ahmedabad
28. Chief Manager, Electrical, SEL, Nellore
29. Head Operations, TPCIL, Nellore
30. Head Operations, SGPL, Nellore
31. O&M Head, IL&FS, Nagapattinam
32. Advisor-Electrical, Coastal Energen, Tuticorin
33. Lead Engineer, Electrical, MEPL, Nellore
34. Vice President (O&M), Hinduja NPCL, Vishakapatnam
35. Vice President (O), LKPPL, Kondapalli

## URTDSM AGENDA

### 1. Status of URTDSM Project (SR Portion)

Region	Total Envisaged		Survey completed	Installed	
	SS	PMU		SS	PMU
SR I		128	Pending in Hyderabad, Khammam and Vemagiri.	20	Supplied: 107 Commissioned: 97 Integrated: 85
SR II	41	142	Completed	39	Supplied: 138 Commissioned: 112 Integrated: 110

- System expected to be commissioned by Sep 2017.
2. Requirement of Auxiliary Power Supply System (APS) as per revised BOQ
- APS supplier's representative visited on 07.10.2017 at SRLDC for survey work to inspect and submitted GA drawings of APS.
  - As per LD & C, Powergrid Auxiliary Power Supply system Type Test is in progress.
  - APS expected in SRLDC by Dec'17.
3. Responsibilities under Entities
- Kerala yet to provide clear site by removing existing old EMS SCADA system and dismantled materials.
  - KPTCL has yet to provide Air-conditioning system to match with the commissioning schedule i.e. Sept. 17.
  - TANTRANSCO yet to provide the earthing connection point for the panels.
  - Availability of necessary communication ports for connection of servers under URTDSM were to be extended by TANTRANSCO.
4. FAT / SAT procedure
- FAT completed for all 4 Nos control centers. Equipment supplied to all 4 Nos control centers and installation under progress at SRLDC, Karnataka SLDC & TN SLDC.
  - SAT under progress at SRLDC along with the states representatives.
5. SR Region Training
- Training had been firmed up by M/s GE and one batch training is over.
6. Training on Application part
- The analytics part by December 2017
  - Application part is in development stage at IIT, Mumbai. LD&T would communicate the details in due course.
7. Updated Drawings
- Constituents' requested PGCIL to update the Drawings with changes done in the CT/PT/Status wiring for the PMU system and submit as built drawing.
  - PGCIL had informed that it will be submitted on closure to commissioning.

8. Mandatory spares
  - Mandatory spares (servers & switches) supplied at each control center where main hardware supplied.
9. Ownership of URTDSM after completion
  - To be discussed.
10. PMU requirement for Phase-II

### SCADA/COMMUNICATION AGENDA

1. Frequent data outage from some stations
  - (Nizamabad & Maheshwaram) - Frequent data outages with respect to these 2 stations in past 2 months. Few instances captured in attached excel file.
2. Communication link availability
  - Where ever optical fiber network is not available or redundant path is not ensured, mechanism to ensure reliable data availability shall be discussed. For example availing one link from BSNL and other from different service provider instead of both links from single agency like BSNL. Also, matching the availability criteria for such links at par with SCADA data availability, say 99.99%.
  - Action plan for ensuring 100% Optical Fiber redundant communication path for all the locations required to be discussed.
3. Kudankulam - analog data non reporting issue
  - Analog card issue in RTU.
  - Analog values not reporting between 01.09.2017 to 14.09.2017. Again analog values not reporting from 01.10.2017 onwards.
4. Data discrepancy (updated and mailed on 09.10.2017)
  - Please refer to the attached **Annexure-I**.
5. SEM based drawl
  - Feedback from constituents
6. ICCP with NTAMC
  - Thiruvallur station data has been configured at SRLDC end. Configuration changes pending at NTAMC end.
7. Status review of compliance of approved protocol of handling scada & communication issues (21.03.2016 communication meeting)
  - RTU not reporting/data failure would be communicated to the concerned entity/user with a copy to PGCIL. User would take lead role in getting the issue resolved. User/SRLDC would ensure necessary verification at their ends as explained in the training. Parallely, PGCIL would look into communication issues. User/SRLDC would appraise PGCIL about the verification at their end for PGCIL to sort out the communication issues. Official email ID for SCADA issues to be created for each entity/User involved for easier communication and proper delivery of information.
  - Details given in **Annexure-II**.
8. Review of SCADA AMC at SR SLDCs

- Quarterly preventive maintenance being carried.
- Raised cases resolved within specified time.
- Any specific issues?
- SRLDC: Regarding SCADA maintenance it shall be detailed or clearly come out the roles and responsibilities of Powergrid & Constituents and the mechanism for effective implementation as per the contract documents. This will facilitate uniform practices among all the agencies as well as standard performance by all the SCADA systems.

9. Maintenance Procedure for DCPC

10. Hot line Communication provided through Orange Exchange.

- Availability status of voice communication through Orange Exchange for Grid Operation (**Annexure-III**).
- BOQ of SRLDC and Actual Supply to be furnished by Power Grid SRTS-II.
- Procedure for checking daily availability status of voice communication.
- Details of Remote subscriber Units extended from SRLDC to Sites for checking voice communication.
- Procedure may be decided to maintain the monthly/weekly availability status for certification of communication availability.
- SRLDC: it was requested to extend a parallel connection to security personal in case of unmanned sub-stations.

11. New Elements Commissioning Issues

- At many locations like Nellore, NP Kunta, Kurnool, Nizamabad, Asupaka etc., data availability during commissioning / trial operation and subsequently very unstable for significant period ever for months.
- Action plan for averting such scenario is required to be discussed.

12. M/s ALSTOM regarding AMC issues, punch points

- PGCIL had informed that the recovery part has been approved by them and has been communicated to the constituents in last week.
- KSEBL had informed that PGCIL has communicated a figure of Rs 9,74,398 which has to be deducted but the breakup of how the figure was arrived was required. The amount to be deducted for delay in commissioning was also required to be communicated.
- SR-II had informed that once the project is completed then only the deduction for the delay can be worked out.
- SR-I had informed that for delay they had requested AP & TS for the amount to be deducted so that the contract could be closed.

13. Modification in EMS package – TSTRANSCO

- TSTRANSCO had informed that they had requested for modification in EMS package which they would be taking up as a separate order.
- PGCIL was requested to convene a meeting with M/s Alstom and TSTRANSCO.

14. Back up SLDC - TSTRANSCO

- TSTRANSCO had informed that they had requested for an estimate for backup SLDC.
- PGCIL was requested to expedite. PGCIL had informed that they had communicated it to their CC.

15. Providing additional RTU at NTPC Talcher

- NTPC had informed that works would be completed by October 2017.

16. Protection coupler replacement for Kayamkulam Transmission system

- Letter from KSEBL received. Approval for the depository amount to be paid to KSEBL is under process. PGCIL assets shall be borne by PGCIL at the rates of LOA to be placed by M/s KSEBL. KSEBL to examine the option of buyback of the old panels or handover the panels to PGCIL.

17. OPGW stringing on balance portion of KPTCL line

- Except Hassan-Santhigrama (7.4 km) OPGW stringing completed on all the lines of KPTCL. Because of non-readiness of direct line, KPTCL recommended executing the connectivity through 3 different lines of 35 km and the same may not be possible in the on-going project as the supplies are completed.

18. Problems with speech circuits

- NTPC Ramagundam, NTPL, Vallur, NLC TS II, NLC TS II Expansion, LANCO Stage II, IL & FS
- Main reason found for one way speech/disconnections due to bill not paid.

19. VC facility at Puducherry

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## Annexure - I

Region	Remarks
SR1	Discrepancy for data was attended from Cuddapa, Ghanapur, Nagarjun Sagar, Jijaywada, 765 KV Vemagiri, Khammam. Non updation of Bus Reactor of Gooty included
SR2	Discrepancy for data was attended from Hosur, Sriperumbadur, Bidadai, Kolar, Maduari, Somanhalli. New points regarding Bus Reactor included from Narendra, Salem, Munirabad
States	Discrepancy for data was attended from Kalpakka(AP), Narnoor(AP), Krishnapatnam(AP), Vemagiri(AP). Non updation of bus reactor from Dindi, BTPS, Talguppa included
BR (faulty Status added in July 2017)	Along with earlier existing points, many Bus Reactor which are not reporting/incorrectly reporting has also been included which are given below.
	<b>AP</b>
	Kurnool 63 MVar -AP
	kalpakka BR 1, BR 2 - 50 MVar
	Kalpakka BR 3 63 Mvar
	Vemagiri BR 1 80 Mvar
	Vemagiri BR 2
	Gani BR2 125 Mvar
	<b>Telangana</b>
	Gajwel BR 125 MVAR - TS
	<b>Karnataka</b>
	Bellary TPS BR1 63 Mvar
	Talguppa BR 63 Mvar
	<b>Tamil Nadu</b>
	NCTPS 2 BR2 63 Mvar
<b>PG-SR1</b>	
Vijayawada BR2 63 Mvar	
<b>PG-SR2</b>	
Narendra BR 125 Mvar	
<b>CGS</b>	
Kaiga BR 63 Mvar	
Neyveli TS 2 BR 1 63 Mvar	
Neyveli TS 2 BR 2 63 MVar	

## Annexure - II

	Date Of Outage	Date of restoration	Date Of Outage	Date of restoration	Date Of Outage	Date of restoration
1 Warangal	2nd Oct 2017	data still out				
2 Maheshwaram	2nd Oct 2017	3rd Oct 2017	29-Sep-17	30-Sep-17	26-Sep-17	27-Sep-17
3 Nizamabad	2nd Oct 2017	3rd Oct 2017	29-Sep-17	30-Sep-17	26-Sep-17	27-Sep-17
4 Bhadrawathy	6th Oct 2017	data still out				
5 MAPS	26-Sep-17	28-Sep-17				
6 KKNP (Analog data)	01-Sep-17	14-Sep-17				



Annexure - III  
(1/2)

ORANGE IP AVAILABILITY (%)

SI NO:	CHANNELS	IP NUMBERS	JULY AVAILABILITY %	August AVAILABILITY %	SEPTEMBER AVAILABILITY %	OCTOBER AVAILABILITY % (UP TO 10/10)
1	SRLDC	2080 0145	100	100	100	100
2	SRLDC	2080 0146	100	100	100	100
3	SRLDC	2080 0152	94	100	100	100
4	NLDC	2011 0020	94	100	100	100
5	AP	28660025	90	100	100	100
6	TELANGANA	20400010	26	68	73	100
7	KALAMASSERY	24840100	100	100	100	100
8	TNEB	20441501	100	100	100	100
9	KPTCL	20800199	68	58	0	0
10	NETCL, Vallur unit # 1	20800266	84	94	100	100
11	KKNP-2	20800273	84	0	0	0
12	NTPC KUDGI	20800046	74	90	100	90
13	KAIGA #1 & 2	20800059	0	0	0	0
14	MAPS (KALPAKKAM)	20800080	0	0	0	0
15	PONDY LD	24130102	100	100	100	100
16	NETCL, Vallur Switch yard	20800013	100	77	100	100
17	NETCL, Vallur unit # 2 / SCE		0	0	0	0
18	NETCL, Vallur unit # 3		0	0	0	0
19	NAGAPATTINAM		0	0	0	0
20	NLY TS2	20800072	0	0	0	0
21	NLY TS1 EXP	2080 0066	3	23	0	0
22	NLY TS2 EXP	20800045	3	23	0	0
23	KUDANKULAM SWITCHYARD	20800042	26	100	100	100
24	KUDANKULAM # 1	20800274	74	0	0	0
25	NTPC AP / KUNTA		0	0	0	0
26	NP KUNTA		0	0	0	0
27	KAYAMKULAM	20800043	0	0	0	0
28	RAMAGUNDAM	20800040	0	0	0	0
29	Kolar HVDC	20801400-20801407	100	100	100	100
30	GAZUWAKA	20800063	0	35	67	100
31	KURNOOL 765	20800050	0	0	0	0
32	RAICHUR 765	20800069	0	0	0	0
33	KUDGI POWERGRID 765	2080 0076	0	0	0	0
34	NELLORE PS	20800080	0	0	0	0
35	Somnathally	20801408-20801415	0	0	0	0
36	Hosur	20800074	0	0	0	0
37	TIRUNELVELI	2080 1432, 20801439	0	0	0	0
38	MADURAI	20801456, 20801463	0	0	0	0
39	SALEM PS		0	0	0	0
40	SALEM 400 KV	20800082	0	0	0	0
41	UDUMALPET	20800085	100	77	100	100
42	TRICHY	20800047	32	74	100	100
43	SRIPERMBADUR	20801472-20801479	0	0	0	0
44	TRICHUR	20801464-1471	0	0	0	0
45	TRIVANDRUM	20800012	55	35	0	0
46	KOCHI	20800058	0	71	100	100
47	PALAKKAD	20800075	0	0	0	0
48	HIRIYUR	20800054	0	0	0	0
49	MYSORE	20800056	3	0	0	0
50	NARENDRA	20800081	0	0	0	0
51	KALVINTHAPATTU	20800073	0	0	0	0
52	PUGALUR	20800067	3	0	0	0
53	KARAIKKUDI	20800044	26	42	0	0
54	HASSAN	20800051	0	0	0	0
55	ARASUR	20800084	29	100	100	100
56	BIDADI	20800052	0	0	0	0
57	MADHUGIRI	20800055	0	23	67	100
58	HYDERABAD	20800071	0	0	0	0
59	NAGA SAGAR		0	0	0	0
60	GUTTY	2080 0079	84	29	0	0
61	MUNIRABAD	20800068	0	0	0	0
62	KHAMAM	20800057	0	35	0	0

(212)

63	CUDAPPA	20800061	6	0	0	0
64	VIJAYWADA	20800065	0	0	0	0
65	NELLORE	20800083	58	0	0	0
66	WARANGAL	20800010	0	0	0	0
67	PONDICHERY	20800062	0	0	0	0
68	THIRUVALLAM	20800011	0	0	0	0
69	TUTICORIN(KOVILPATTI)	20800060	13	58	0	0
70	SALEM	20800053	6	35	100	100
71	NAGAPATTANAM	20800048	0	0	0	0
72	YELAHANKA	20800039	3	23	0	0
73	KOZHOKKODE	20800041	0	0	0	0
74	RTMC HYDRABAD	20800086			87	100
75	PAVAGADA Pooling station	20800185				60