



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

स.उक्षेविस/ प्रचालन /108/04/ 2018 /13656-90

दिनांक : 04.12.2018

No. NRPC/OPR/108/04/2018/

Date: 04.12..2018

सेवा में / To,

सूची के अनुसार संलग्न /As per list attached

विषय: दूरसंचार, स्काडा और टेलीमेट्री उप समिति की 14वीं बैठक

Subject: 14th meeting of Telecommunication, SCADA& Telemetry Sub Committee

दूरसंचार, स्काडा और टेलीमेट्री (टेस्ट) के 14वीं बैठक 17.12.2018 (सोमवार)को सुबह 10.30 बजे उ. क्षे. वि. समिति , नई दिल्ली में आयोजित की जाएगी इस बैठक के लिए एजेंडा उ. क्षे. वि. समिति वेबसाइट (www.nrpc.gov.in) पर होस्ट कर दिया गया है। कृपया इस बैठक में भाग लेने का कष्ट करें।

The 14th meeting of TeST sub-committee will be held on 17th Dec 18 (Monday) 10.30 AM at Conference Room, NRPC, New Delhi. Agenda for this meeting has been hosted on NRPC website (www.nrpc.gov.in). Kindly make it convenient to attend the meeting.

(R P Pradhan)

(अधी. अभि. & सदस्य संयोजक टेस्ट उप समिति /
SE & Member Convener TeST sub-committee)

List

1. Chief Engineer(SLDC), PTCUL, Dehradun-248001, (Fax-0135-2530336)
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18. General Manager (C&SO), SJVNL, Sharma Niwas, Below BCS, New Shimla-171009 , (Fax-0177-2673283)
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23. General Manager, NRLDC, New Delhi-110016, (Fax-011-26853082)
24. Chief Engineer (SO&C), SLDC, HVPNL, Sewah, Panipat , (Fax-0172-2560622)
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28. DGM, Electrical, Jhajjar Power Ltd., Haryana, (Fax-01251-270155)
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32. Managing Director, J&K State Power Dev. Corp., Srinagar, J&K, (Fax-0194- 2500145)
33. HOG power system control, TATA Power Delhi Distribution Limited, New Delhi, (Fax-011-66050601), CENNET building, Opp to PP Jewellers Netaji subhsh place,, New Delhi (Kind Attn Sh.P Devanand)
34. Sr. Vice President, JSW Energy Ltd., New Delhi-110066 (Fax: 46032343 / 26183546)
35. Managing Director, UPCL, Dehradun-248006, (Fax-0135-2768867)

Agenda for 14th meeting of Telecommunication, SCADA & Telemetry (TeST) Sub- Committee

Date: 07.12.2018

Venue: Conference Hall, First floor, NRPC, Katwaria Sarai, New Delhi

1. Confirmation of Minutes

1. Confirmation of Minutes:

The minutes of 13th meeting of TeST sub-committee held on 24.04.2018 were issued on 01.06.2018. Minutes are available on NRPC website (www.nrpc.gov.in).

Members may discuss and confirm the Minutes.

1A. Follow -up

1A . Follow-up of Decisions in 13th Test meeting held on 24.04.2018

Responsibility for Action plan and Time line for Various issues were mentioned in Minutes of 13th TeST meeting issued on.01.06.2018.

Members may apprise the sub-committee, the status of the actions on these decisions. If the action could not be taken, then, the reasons, constraints and action plan for completion of the task may be submitted.

2. Telecommunication Related Issues

2.1 OPGW installation under central and state sectors:

2.1.1 OPGW installation under central and state sectors:

2.1.1.1 Latest status of OPGW installation progress under central sector: The details of balance work out of 5203 Kms. of OPGW under Central sector, as informed by POWERGRID representative in 13th TeST mee is as under:

- (i) Abdullapur – Dehradun : The link had been commissioned on 30.03.2018.
- (ii) Kishenpur – Dulhasti : The link had been commissioned on 19.01.2018.
- iii) Uri-II to Uri-I line : 10 Kms. POWERGRID had deployed their OPGW maintenance team for completion of Uri-I to Uri-II in Feb' 2018. However, due to

shelling from Pakistan side, the work could not be executed at that time. A team was redeployed again after 2 months 18.04.2018 but due to severe ROW issue, work could not be carried out. POWERGRID officials confirmed that after settlement of ROW/compensation issues with the help of District Administration, team would be deployed to complete this link (Uri -i-uri-ii link)

2.1.2 Reliable Communication Scheme under Central Sector for NR.

2.1.2.1 SE, NRPC informed that, implementation of following Communication Schemes were approved in 37th TCC and 40th NRPC meeting held at Srinagar.

- a) Reliable Communication Scheme under Central Sector for Northern Region consisting of 5428 Km of OPGW along with communication equipments and associated items at a cost of Rs. 177 Cr.
- b) Replacement of OPGW along with communication equipment and associated items installed under ULDC project Phase-I consisting of 1820 Km of OPGW along with communication equipments and associated items at a cost of Rs. 60 Crs. The same is taken up as a part of Reliable Communication Scheme under Central Sector for Northern Region.

2.1.2.2 In 12th approved but due to revision in Qualifying Requirement (QR) with the provision of "Make-in-India", tendering process was rescheduled. He added that NIT was expected by Jan'18 TeST meeting, Representative of POWERGRID informed that DPR had been.

2.1.2.3 In 13th TeST meeting, Representative of POWERGRID informed that NIT for Reliable scheme was published on 22.02.2018. However, due to muted participation / queries raised by bidders, date for opening of NIT was extended 3-4 times and opening was expected on 03.05.2018. The placement of award was expected by July' 2018.

2.1.2.4 POWERGRID may update the present status

2.1.3 Latest status of OPGW installation progress under state sector:

2.1.3.1 The progress as updated in the 12th TeST meeting, by POWERGRID, are as under:

SI No	Name of Package	Award Date	Completion schedule	Status
1	OPGW for State sector (Package-V) M/s ZTT/ECI/Steel Product	July, 2015	May, 2018	Out of total 1669 Kms., 1663 Kms. Completed. Balance – 06 Kms. (UPPTCL-6)

2	OPGW for State sector additional requirement (Package-I a) (supply Pkg) M/s SDGI-Offshore contract	Oct, 2015	July 2018	Initial Scope: 2800 kM Revised Scope: 3374 kM Supply completed: 3068kM. Material for Balance 173 Kms at PSTCL and balance 143 kms at BBMB. to be supplied in June/July'2018.
3	OPGW for Additional requirement for CS and SS (Package-III a) M/s Prem Power	Sept,2015	Sept 2018	Revised scope: 706 Kms. Total supply completed. 450 Kms installation completed.

2.1.3.2 Regarding balance portion of 6 Km. under Package-V, on DTL line i.e. BamnauliBallabgarh (8 Km), and Bamnauli- Jhatikara (2 Km.) , representative of POWERGRID informed that OPGW works had been completed on both of the DTL links. However, minor approach cable laying was pending, as DTL had shifted their transmission line to Under-ground cabling near Bamnauli premises, due to which quantity of approach cable was changed and POWERGRID had to arrange the materials for the same. He added that the work would be completed shortly.

2.1.3.3 POWERGRID informed that under Package-V on UPPTCL's 400kV Greater Noida - 220 kV Noida Sector 20 link, 2.7 Km. OPGW work had been completed. POWERGRID representative further informed that for 6.2 Km. OPGW work on UPPTCL's Muradnagar-Loni link under Package-V, POWERGRID had again attempted for laying of OPGW. However, due to be severe ROW issues/ opposition by landowners, work could not be taken up. Matter had been escalated to District Administration for resolving of ROW issue. POWERGRID representative reiterated that completion of this link may not be possible as the earlier dispute for compensation to landowners by UPPTCL was still unresolved and now they are demanding very high compensation for damage of crops. He informed that landowners denied permission for carrying out OPGW work without sorting out earlier issues of compensation payment

2.1.3.4 Regarding installation of OPGW supplied under State sector additional requirement (Package-I a) - 3374 Kms POWERGRID informed that: Installation for these OPGW links were bifurcated in two Region i.e. NR-I (810 Kms -all central sector links) and NR-II (2564 Kms Central sector & State sector). Out of 810 kms, 421 Kms had been completed, Completion target is Sept' 2018, works

was delayed due PTW was not allowed by NRLDC/NLDC for 2nd peak of Dadri-Maharani Bagh (Dadri-Greater Noida link) and 765kV Agra-Greater Noida-Meerut line citing grid security. For NR-II, out of 2500 Kms, 1209 Kms had been completed which includes HPSEBL, PSTCL & Central sector links. Target completion date for NR-II links is by Dec' 2018..DTL and POWERGRID may intimate present status

2.1.3.5 Incorporation of OPGW links in ULDC Packages : POWERGRID submitted following information regarding additional requirement of OPGW for central and state sectors

Following links pertaining to PSTCL, HPSEBL & CENTRAL SECTOR were included in NR Expansion scheme (ADDITIONAL REQUIREMENT) PACKAGE, laying of OPGW was discussed in earlier TeST meetings and incorporation of total 654 Kms in OPGW links for Central Sector (64.885Kms for redundancy of OPGW network) and State Sector (PSTCL-472.187 Kms & HPSEBL-117.079 Kms as state required for expansion and redundancy network) and were made on request of respective constituents but approval of NRPC/TCC is still be accorded. Hence incorporation of following link may be put up for kind approval by TeST sub-committee/NRPC.

Central Sector Links				
Sl. No.	Name of Link	Voltage Level (KV)	OPGW	Route length (in kms)
1	Parbati III Power Station -Banala	400	24 F OPGW	7.774
2	Dadri- MaharaniBagh	400	24 F OPGW	57.111
Central Sector (Total in kms)				64.885
HPSEBL Links				
1	Kumarsain - Gumma	66	24 F OPGW	44.94
2	Bhaba - Naptha	220	24 F OPGW	2.14
3	Bathri - Kurthala	132	24 F OPGW	48.5994
4	Solan - Kunihar	132	24 F OPGW	21.4
HPSEBL (Total in kms)				117.0794
PSTCL Links				
Sl. No.	Name of Link	Voltage Level (KV)	OPGW	Route length (in kms)
1	LILO Portion of Sultanpur 220 - Patti 220 at Chola Sahib 220kV	220	48 F OPGW	4.672

2	LILO Portion of Talwandi Bhai 220 - Ferozpur 220 at Sadiq	220	48 F OPGW	23.605
3	LILO portion of Ablowal 220 - Rajla 220 at Passiana 220	220	48 F OPGW	1.102
4	Rajla 220 - Patran 220 with LILO at kakrala 220	220	48 F OPGW	3.39
5	Rajla 220 - Patran 220 with LILO at Patran 400	220	48 F OPGW	5.826
6	LILO portion of Patran 220 - Sunam 220 at Bangan 220	220	48 F OPGW	12.67
7	LILO portion of Sunam 220 - Mansa 220 at Jhunir 220	220	48 F OPGW	33.585
8	LILO Portion of Mansa 220 - GHTP 220 at Dhanaula 220	220	48 F OPGW	37.89
9	LILO Portion of Mansa 220 - GHTP 220 at Talwandi Sabo 220	220	48 F OPGW	29.122
10	LILO Pt. of GHTP 220 - Talwandi Sabo 220 at Maur 220	220	48 F OPGW	8.735
11	Muktsar 220 - Bathinda 220 with LILO at Malout 220	220	48 F OPGW	24.035
12	Muktsar 220 - Bathinda 220 with LILO at Badal 220	220	48 F OPGW	25.457
13	LILO of Sahnewal 220 - GGSSTP 220 at Kohara 220	220	48 F OPGW	2.843
14	LILO of Sahnewal 220 - GGSSTP 220 at Gaunsgarh 220	220	48 F OPGW	16.685
15	LILO Portion of ASPH-I 132 - ASPH II 132 at Anandpur Sahib 132	132	48 F OPGW	2.993
16	Bilaspur 132 - Doraha 132 - Sahnewal 220	132	24 F OPGW	21
17	MPH-I-II-III-IV - Shri Har Gobindpur - Wadala Granthian 220	132	24 F OPGW	80
18	Jamsher 220 - Jadla 220	132	24 F OPGW	67.326
19	LILO Portion of Jamsher 220 - Jadla 220 at Goraya 220	132	48 F OPGW	7.49
20	Jadla 220 - GGSSTP(RTP) 220	220	24 F OPGW	43.393
21	LILO Portion of Wadala Granthian 220 - FC Churian 220 at Kotli Surat Mali 220	220	48 F OPGW	9.08
22	LILO Portion of FC Churian 220 - Civil Lines Asr 220 at Majitha 220	220	48 F OPGW	5.44
23	LILO Portion of Civil Lines Asr 220 - Khassa 220 at Chugawan 220	220	48 F OPGW	5.848

	PSTCL (Total in kms)	472.187
	Total Additional Requirement for Central & state Sector in Kms	654.1514

2.1.4 OPGW cut due to diversion of Transmission Lines Agenda by POWERGRID)

As per discussion in last TeST meeting, OPGW issues in UPPTCL in Noida area shall be rectified by them by end of May' 2018, accordingly commissioning of ECI equipment shall takes place, however rectification of OPGW links in Noida-Sector129 to Greater Noida400 to Noida220-Sector-20 to Noida 220-Sector-62 are yet to be done and data reporting on these links interrupted even communication equipment were commissioned one year back.

UPPTCL is requested to expedite the OPGW rectification on priority.

2.1.5 Status of NHPC stations (agenda by NHPC)

2.1.5.1 Status of OPGW connectivity at NHPC Power Stations under Central Sector scheme.

- a) During 13th TeST meeting held on 24.04.2018 it was informed by POWERGRID that OPGW work at URI Power Station shall be completed in 15 days. Further, the matter was taken up as agenda point in 39th TCC & 42nd NRPC Meetings held on 27th and 28th June 2018 wherein POWERGRID informed that the work shall be completed within 10 days.
- b) During 13th TeST meeting held on 24.04.2018 POWERGRID informed that work at Bairasiul and Sewa-II would be completed within 15 days and that at Parbati-III is likely to be completed by June 2018.
During 39th TCC & 42nd NRPC Meetings held on 27th and 28th June 2018 POWERGRID informed that OPGW connectivity for data telemetry of Bairasiul and Sewa II shall be completed by July 2018 and that at Parbati-III shall be completed by June 2018.
- c) During the 13th TeST meeting, it was informed by POWERGRID that after settlement of ROW/compensation issues with the help of District Administration, team would be deployed to complete this link within 15 days. Further during 39th TCC & 42nd NRPC Meetings held on 27th and 28th June 2018, TCC advised POWERGRID to resolve the compensation issue at the earliest

POWERGRID may update the status

2.1.5.2 Data telemetry of Kishanganga HE Project through OPGW

In the 13th TeST meeting held on 24.04.2018, POWERGRID informed that new transmission line from Kishenganga to Wagoora was under construction

through Amargarh and OPGW connectivity would be established only after commissioning of the transmission line which is likely to be completed by June 2018. POWERGRID representative agreed to inform the status after checking OPGW availability on this line for data telemetry of Kishanganga HE Project.

During 39th TCC & 42nd NRPC Meetings held on 27th and 28th June 2018 POWERGRID informed that they will confirm later regarding installation of Terminal Equipment at Kishanganga HE project once Fibre is available.

POWERGRID may update the status.

2.2 Issue in AMC of existing S900 RTUs (Agenda by HVPNL, DTL HPSEB and NRLDC)

2.2.1 Agenda by HVPNL : The AMC of S-900 RTUs is up to July 2018 and POWERGRID assured that same may be extended by one more year. However the DPR of SLDC Expansion Project Phase-II through PSDF funding has been approved by WTDs of HVPNL. The MoP has also been approved for the same. Now 14 nos. old S-900 RTU's will be replaced under PSDF funding project.

2.2.2 Agenda by DTL: AMC of S900 RTUs installed under ULDC is valid till July 2018. During 12th TeST Meeting it was decided that PGCIL shall replace S900 RTUs of PGCIL and members/constituents who have consented for their RTU replacement by July 2018. PGCIL may update the status along with the target of installation at all the sites of POWERGRID and Constituents. .

2.2.3 Agenda by HPSEB : HPSEBL is in process of procurement of new RTU's for replacement of S-900 RTUs and it may take time. Therefore, the AMC of S-900 RTU's which is going to expire in September'2018, may be extended by one year i.e. upto September' 2019.

2.2.4 Agenda by NRLDC: Many transducers are faulty at many locations where S900 RTUs are installed. However due to non-availability of transducers issues are not been resolved. It is requested to arrange for spare transducers where required. The status of RTU replacement may be discussed and the schedule for replacement of S900 RTUs may be finalised
POWERGRID may update the status.

2.2.5 Replacement of S 900 RTUs :

2.2.6 Replacement of old S900 RTUs (Agenda by POWERGRID)

As per discussion in previous TeST & NRPC meetings, POWERGRID have agreed to replace old S900 RTUs for all Constituents on Deposit/Consultancy Basis. MOU/Agreement for the has been signed by all Constituents however). It may be mentioned that as per policy, award shall be placed only after signing of MoU/Agreement between POWERGRID & respective constituents and Deposit of advance payment

In 13th TeST meeting dated 24.04.2018 Representative of POWERGRID requested all concerned members to inform status and action plan for signing of

MoU/Agreement & payment, so that tendering process for procurement of new RTUs may be initiated.

In this meeting The sub-committee expressed concern over delay in procurement process and advised all the concerned constituents to submit the signed copy of MoU to POWERGRID latest by 15th May 2018. It was also decided by the sub-Committee that if any Constituent doesn't submit the signed copy of MoU by 15th May 2018, it will be the concerned Utilities responsibility to make necessary arrangement for procurement on their own so that their RTUs are replaced before expiry of AMC.

By 15th May 2018, only four have deposited payment against MOU/Agreement (THDC, SJVNL, BBMB & NHPC out of 9 Constituents.

NTPC, NPCIL, DTL, PSTCL & IPGCL are requested to expedite the advance Payment as per MOU, so that POWERGRID may proceed for publication of NIT for procurement of new RTUs.

2.3 Communication issues of NR States

2.3.1 UP communication issue (Agenda by UPPTCL)

iUPPTCL nformed the following Communication related issues

- 2.3.1.1 UPPTCL informed that completion of Azamgarh (400)-Gorakhpur (400 UPPTCL) link, in Central Sector, has been inordinately delayed. Data transmission of many substations have not been transferred to fibre optic system due to incomplete fiber link. POWERGRID is requested to complete this fibre link at the earliest .
- 2.3.1.2 UPPTCL requested POWERGRID to inform the status of procurement of PDH equipment in replacement of Nokia PDH.
- 2.3.1.3 **FRTU for viewing data of UPS & DG set:** UPPTCL informed that It was agreed by POWERGRID in 12th TeST meeting that procurement of FRTU's will be done by POWERGRID along with the procurement of RTU's the procurement still pending.

2.3.2 HPSEB Communication Related Issues: (Agenda by HPSEB)

HPSEB_informed the following Communication related issues

- 2.3.2.1 **Installation of OPGW under Package-I** :Under package-I (a), OPGW of about 545.335 Km is to be laid on HPSEBL transmission network and as per LOA, work was to be completed by 31.03.2017, however, as per 13th TeST MoM, it was agreed by POWERGRID that this work shall be executed by December' 2018.

In this context, it is intimated that the teams involved in stringing work of OPGW has been dismantled from HPSEBL site w.e.f. 19.11.2017 and as on date, no stringing work is being carried by the Firm on HPSEBL Transmission network. It is, therefore, requested that OPGW stringing work may be restored immediately so that it could be completed by December, 2018 as decided in 13thTeST meeting. POWERGRID may apprise the latest status.

2.3.2.2 **The data of 220KV Giri station is not available at SLDC/ALDC Control Centre, Shimla** w.e.f March'2018 due to LILO of 132KV Giri-Solan line. OPGW has been laid between Giri-Solan, Giri-Kalaamb and SDH, PDH along with 48VDCPS have been delivered at said locations under Package-I(a). It is, therefore, requested that installation/SAT activity of OPGW, OLTE equipments along with 48V DCPS at Giri & Solan stations may be carried out at the earliest so that real time data of Giri station could be shifted from PLCC to fibre & routed through Giri-Solan-Totu-Jutogh. HPSEB requested POWERGRID to apprise the latest status and timeline for carrying out above activity..

2.3.3 DTL Communication issues (Agenda by DTL)

DTL informed the following Communication related issues

2.3.3.1 Newly Laid out OPGW from 220KV Mandola – Wazirabad (under system improvement scheme of central /state sector) is out of operation since last two months, thereby reducing system availability. Also, the 400KV Bamnauli-Ballabgarh and Bamnauli – Jhatikara link has not been commissioned. PGCIL is requested to urgently get the OPGW repaired / pending work completed. Further, AMC of the OPGW be also urgently processed by PGCIL.

2.3.3.2 New communication equipment (ECI make) that is supplied under ULDC Scheme has been installed and DTL is in process of shifting of data from the old setup (Fijitsu and Nokia equipment).

In order to stop the AMC of ULDC phase I wideband equipments and to have reliable communication network, PowerGrid is requested to provide a plan for AMC / support for maintaining new communication equipment (ECI Make).

2.3.3.3 Replacement of diverted Communication eqpts /addl BOQ.

A number of SDH/PDH communication equipments have been diverted / utilized by PGCIL for the project works, from earlier allocated DTL sites, such as 220KV Patparganj / Preet Vihar etc. Plan for replacement / installation at those sites alongwith the additional approved BOQ for other sites, be provided.

2.3.3.5 Charges for bay extension in Siemens RTU's.

As already requested in previous TeST meetings, Unit charges for extension of 220 / 66 / 33 KV bays in RTU's installed by Siemens under ULDC#2 needs to be provided to the Utilities to enable the proposed bay extension work at various sites. Same has still not been provided.

2.3.3 HVPNL communication issues (Agenda by HVPNL)

2.3.3.1 **Implementation of MultiSite Configuration between SLDC Panipat and SLDC Shimla:-** The implementation of MultiSite Configuration between SLDC Panipat and backup SLDC Shimla is pending. Out of total 39 no. Stations, only 14

no. Stations of Shimla end are reporting at SLDC Panipat. Matter may be taken up with M/s Siemens for its early solution.

2.3.4 PSTCL Communication issues (agenda by PSTCL)

- 2.3.4.1 PSTCL requested POWERGRID to convey the approved integration charges payable to M/s Siemens Ltd for carrying out integration of addition/extension of bays for Siemens RTUs.

2.4 Communication issues of NRLDC (Agenda by NRLDC)

2.4.1 Communication plan for channel redundancy and to back-up NRLDC

The provision of redundant communication was discussed in 8th TeST held on 26th July, 2016, This is to inform that redundant data communication is yet to be ensured at NRLDC after one year of discussion.

Presently 93 RTU out of 124 are reporting on redundant channel. It is requested to expedite the process of providing redundant channel at the earliest.

However redundant channels provided are also intermittent causing loss of data in real-time.

2.4.2 Requirement of Ethernet ports at NRLDC

During 12th TeST meeting, Committee has approved for procurement of additional Mux at NRLDC to cater requirement of additional Ethernet port. PGCIL to update the status of procurement.

2.5 Signing of side letters of MoU for AMC: (Agenda by POWERGRID)

- 2.5.1 Side letter of MoU for AMC contract for OPGW was expired on 30.06.2018, POWERGRID has sent side letters to respective constituents for signing of side letter to MOU. Signing of side letters are still pending from DTL, RVPNL, UPPTCL & J&K PDD.

It is once again requested to expedite the signing of MoUs immediately otherwise it is difficult to carry out the AMC works without MOU in place.

- 2.5.2 Side letter of MoU for maintenance of RTUs was send to J&K PDD & PTCUL long back. However, side letters are MoU is yet to be signed by PTCUL and PDD. It is once again requested to expedite the signing of MoUs immediately.

<h2>3.0 Issues in Unified Load Dispatch & Communication scheme of NR (Phase-II):</h2>
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3.1 Requirement of Ethernet ports at NRLDC (Agenda by NRLDC)

During 13th TeST meeting, Committee has approved for procurement of additional Mux at NRLDC to cater requirement of additional Ethernet port. POWERGRID may update the status of procurement.

3.2 DTL SCADA issues (agenda by DTL)

DTL informed the following SCADA related issues

3.2.1 Data loss of EDNA from 25-Jun-18 15:00 hrs to 26-jun-18 09:00 hrs.

On 25th June 2018, 18 Hrs of eDNA data was lost due to negligence of Siemens site engineers. Till date we have not received any clarification related to cause of data loss.

3.2.2 Database synchronization problem with multisite.

There are issues in database synchronization with multisite regarding synchronization of IFS database of RRVPNL.

3.2.3 STLF issues

In load error analysis page the current forecast value does not match with any of the forecasted values.

3.2.4 Number of open access consumers of more than 10MW load are to be integrated in SCADA of SLDC. As per open access regulations these consumers are to provide metering data via two channel of communication to SLDC. These consumers may be required to install routers/switches etc at SLDC's communication rooms (space and auxiliary supply shall have to be provided by SLDC) and integrated in Siemens SCADA system. It is understood that Gujarat SLDC is charging these consumers for installing their equipments in SLDC.

The various modes of integration alongwith the safety requirements (firewall etc) and any changes required in SCADA needs to be discussed and some kind of procedure may be formulated for future standardization.

3.2.5 **Replacement of Old DC Power supplies:** The DC Power supplies, supplied under ULDC Phase-I Project are nearly 18 years old out of which Ascom make chargers are currently under AMC valid till 2020. However, Chabbi make chargers are not covered under any AMC. These chargers have become old and susceptible to frequent break downs and therefore need replacement. There is an option to either replace old charger with new DC Chargers or provide 220 V DC to 48V DC converters which tap 220V DC supply from sub- station DC Supply.

DTL requested TeST sub-Committee to provide technical reasoning/guidelines(if any) in support of any of the two options above or any other option considered suitable.

3.2 UP SCADA issues (Agenda by UPPTCL)

UPPTCL informed the following SCADA related issues

- 3.3.1 Frequent interruption in data communication /Networking issues:** It has been observed that frequent data interruption for short duration is taking place especially between terminal servers installed at sub LDCs to Backup SLDC/ Main SLDC. Sometimes frequent failure of data reporting from all RTU/SAS to Main /Backup SLDC also takes place and continues until communication cables are taken out from IFS routes /switches and then connected again. It has been discussed in 13th Test meeting and earlier also. In the 13th TeST meeting it was requested by UPPTCL & UPSDLC that services of an external agency in Networking experts may be taken up by M/s Powergrid for sufficient period to study the behavior of UP communication network and remedial measures to be suggested. Formal letter has already been submitted to NRPC in this regard.

3.3.2 Short Term Load Forecasting:

M/S Siemens has been told to incorporate following features in STLF but same are yet to be provided

- (i) Manual Execution mode is to be activated by Siemens.
- (ii) Feature for incorporating correction factor is also to be activated.
- (iii) Feature for restricted demand forecast is also to be provided.

- 3.2.3 EMS tuning :** It is affected by frequent outage of WUPPTCL link.

- 3.2.4** Interruption in publishing of SCADA data on SCADA web server :

- 3.2.5** Delay in implementation of various pending SCADA /EMS work by Siemens:

- (i) OTS issues: still unresolved even after taking up this issues in various TeST Meetings as well raising the issue separately also with Siemens/ POWERGRID
- (ii) frequently IMM problem occurs.

- 3.2.6** Issues raised in 12th TeST meeting regarding total failure of Scada & EMS on 08-12-2017 are still unresolved.

3.3 PSTCL SCADA Issues

- 3.3.1 Regarding interruption of publishing of SCADA data on SCADA Web Server:** Issue regarding non updation/publishing of SCADA data on Siemens web server is being raised/discussed by State Utilities including NRLDC in various TeST

meetings in the past but issue has not been resolved fully till date by M/s Siemens inspite of assurance given by them. As a result, remote user/ Dispatcher has to face a lot inconvenience due to inaccurate real time SCADA data on SCADA website. On dated 31 Aug 18 at time 11:58 Hours, Total Punjab RES generation was showing 465 MW in SCADA, whereas in Siemens web server, it was displaying 162 MW only.

PSTCL requested POWERGRID to take up the matter with SIEMENS to get it resolved completely, so that these kind of issues does not happen in future.

- 3.3.2 Frequent interruption of Interstate Drawl Points:** Frequent interruptions in Telemetry data of Interstate Drawl Points (PGCIL, BBMB etc.) has been observed mainly due to issues like fault(s) in Battery Charger & OPGW Breakdown. List of such major incidents happened in the past is attached along with as Annexure-1 for reference please. Due to frequent interruption of telemetry data, dispatcher(s) face major problem in controlling the grid. In addition, mismatch in SEM-SCADA data is a great concern for DisCom(s) also who have to bear financial burden due to UI account.

PSTCL requested POWERGRID to look into the issue & explore the possibility of minimising such kind of incidents in future as well as to take measures to reduce down time of outage of telemetry data.

3.4 HVPNL SCADA issues (Agenda by HVPNL)

HVPNL informed the following SCADA related issues

- 3.4.1 Rollover to IPv6:-** In the 12th TeST Meeting, the sub-committee advised that the necessary action regarding migration to IPv6 in compliance to Govt. directions shall be taken by the concerned utilities in co-ordination with their internet service provider. Thus, PowerGrid is requested to get this activity carried out.
- 3.4.2 Interruption in publishing of SCADA data on SCADA Web Server:-** The publishing of SCADA data on SCADA Web Server gets interrupted many times, resulting into inconvenience to the system user. The interruption in the publishing of SCADA data on SCADA Web Server has occurred many times during past more than four months at SLDC Panipat. M/s Siemens may be asked to check and resolve the issue at the earliest.
- 3.4.3 Non-working / Failure of Haryana SLDC Website:-** A no. of instances of non-working of Haryana SLDC Website has occurred in the past few months viz. 04.03.2018, 17.05.2018 and 28.06.2018. The website during its failure has been restored by M/s Siemens in a long span of time. Moreover, the detailed analysis report citing the reason of failures, preventive action taken, any kind of data loss etc. has not been provided by M/s Siemens for any of the instance mentioned above. Thus the matter may be taken up with M/s SIEMENS regarding the issue to avoid recurrence of such instances in future.
- 3.4.5 EMS Training:** - It was decided in the 12th TeST Meeting that PGCIL shall arrange EMS training from M/s Siemens on behalf of all the NR constituents. The training was conducted from 21.05.2018 to 25.05.2018 by M/s Siemens at SLDC Panipat. But as per the training module finalized by NRPC, STLF (Short Time

Load Forecasting) was not covered in the training session which is important from the system operation point of view. Thus the matter may be taken up with NRPC/M/s SIEMENS to cover the pending module & complete the training in all aspects.

3.4.6 EMS Issues: While carrying out the EMS tuning activity, certain problems/misconceptions are being faced which are not been resolved even with the help / support available from M/s. Siemens Engineers deployed at SLDC, Panipat as they are not conversant with the EMS functionality of the system.

The matter was discussed in the 12th & 13th TeST meeting wherein it was assured by M/s Siemens to deploy suitable manpower, who can help in EMS tuning activity at SLDC Panipat. Matter needs to be taken up with M/s Siemens regarding the same.

3.4.7 Performance of the Site Engineer deployed by M/s SIEMENS at SLDC Panipat:-

Mr. Ravinder Singh was deployed as Software Engineer by M/s Siemens at SLDC Panipat as a substitute of Mr. Trivesh Yadav, Software Engineer at SLDC Panipat who has worked for past more than three years and left this office on 31.03.2018. The Software Engineer was deployed without any prior intimation/discussion and consent of HVPNL authorities. Matter was taken up with M/s Siemens and PowerGrid a no. of times regarding this issue and was also deliberated in the 13th TeST Meeting. Despite of this, Mr. Ravinder Singh, the software support of M/s Siemens at SLDC Panipat was not available at the site w.e.f. 01.06.2018 without any prior intimation to this office and there was no software engineer available at site from 01.06.2018 to 17.06.2018 during which many serious issues/problems occurred and none was taken care off by M/s SIEMENS for its early solution. Moreover it is pertinent to mention here that the new Software engineer, Mr. Sandeep Jhoka has been deployed by M/s Siemens w.e.f. 18.06.2018 who is having no knowledge and experience regarding the SCADA System Software and is unable to resolve the issues/events at site. M/s Siemens has been reported a no. of times that the software engineer provided is not conversant with the system and may be replaced with a trained personnel for early redressal of the issues. This is a matter of great concern and may lead to security issues/system threat & hamper the smooth functioning and healthiness of the system. M/s Siemens Ltd. may be asked to provide the qualified and skilled engineers in accordance with the conditions of the contract to maintain the SCADA/EMS System to the desired level of availability. PowerGrid being the owner of the project and NRPC being the owner of the region should initiate punitive action against M/s Siemens to ensure proper compliance of the contractual obligations.

3.4.8 Cyber Security Audit Compliance:

Every year the cyber security audit is being taken up by the 3rd party vender AKS through M/s SIEMENS. The report is being submitted regarding the same and recommendations are being made by the Audit team. Moreover the new patches that are available must also be installed in the system and the report regarding the same must also be provided by M/s SIEMENS. Matter may be taken up with M/s Siemens regarding the same.

4. Telemetry Related Issues

4.1 Present Status of Telemetry

4.1.1 Non-Availability / Reliability of Telemetry (Agenda by NRLDC)

The new stations at 400 kV are being integrated in the system. Though the telemetry integration is ensured before charging the new element, the reliability of telemetry is not at all ensured. The reliability of telemetry of the following stations are very poor:

PGCIL			
Parbati-II	Agra South	Harsh Vihar	
Sitarganj	Allahabad 400 KV	Baspa	
Kishanganga	Baglihar*	Mainpuri 765	
Chamera-I	Mathura	Kawai	
Bahadurgarh	Srinagar UK	Vishnu Prayag	
Budhil	Chhabra	Suratgarh	
Malana	Makhu		

*Baghilar yet to be integrated

Reliability of telemetry for some of the stations are poor since its integration. Member may like to discuss the issues and resolution target for restoration of reliability.

4.1.2 Status telemetry of TCSC / FSC

NRLDC has been continuously requesting utilities to ensure reliable telemetry at the control centre. However, it is being observed that FSC/ TCSC status is not available from following locations.

S. No.	Station	Line	FSC Data Status
1	Ballabgarh	Kanpur	Not reporting
2	Bareilly 400	Meerut	Not reporting
3	Lucknow 400	Gorakhpur	Not reporting
4	Mainpuri	Fatehpur	Not reporting

5	Meerut 400	Koteshwar	Not reporting
6	Gorakhpur	Muzaffarpur	Not reporting
7	Unnao	Bareilly (UP)	Not reporting

Utilities are requested to arrange for integration of telemetry of FSC/TCSC at the earliest.

4.1.3 Telemetry from Kurukshetra HVDC – as per agreed in the separate meeting

In addition to this, in meeting held at Kurukshetra, POWERGRID had agreed to provide telemetry of additional data of HVDC as shown below which is still to be completed:

S. No.	Description	Clause in MoM dated 12-07-2018
1	Extinction angle (<i>inverter and rectifier stations</i>) and Firing angle (<i>inverter and rectifier stations</i>)	17
2	Telemetry of "real-time mode (<i>bi-polar with both DMR, bi-polar with one DMR, etc.</i>) of operation" and "instance of changeover"	20

PGCIL to update the status.

4.1.4 Telemetry of weather parameter in view of forthcoming winter

NRLDC requested ALL constituents to ensure correct telemetry of weather parameters and submit the report of availability of correct data from weather stations, So that the data from that stations can be used in winter season.

4.2 Telemetry of digital status

4.2.1 Telemetry of digital status (Agenda by NRLDC)

The importance of correct Digital telemetry was discussed in all the sub-committee meeting and it is observed that there is no improvement in this regard. It is was decided in 13th TeST Sub-committee meeting that the constituent will furnish the availability status of 220 kV and above stations and improvement there off.

CERC has given direction for implementation of Fast Regulation Ancillary Service (FRAS) and for implementation unit wise status telemetry is a strict requirement. The availability of unitwise status should be available on reliable basis. Member may discuss.

Members are requested to furnish the status of digital data telemetry of the stations for and the same may be discussed for further improvement.

4.2.2 Telemetry of digital status (Telemetry of Digital Status (Agenda by HVPNL))

HVPL informed that this issue have been discussed with HVPL TS Wing. However digital status is not correctly reporting due to old equipment i.e. mainly isolators. The CB status is reporting correctly up to 90% approx in 220KV & above Substations.

4.4 Calculation of Actual Drawl in SCADA: (Agenda by HVPL)

HVPL informed the following status. The SEM and SCADA data for each points are being compared and the points for which % age errors are more than 5 % are reported for correction. The inaccuracy/mismatch (in SCADA Vs SEM) for the below mentioned points was reported in past months but the problem is yet to be resolved.

- 1 Hisar_PG - 220 KV Fatehabad-1.
- 2 Kurukshetra HVDC_PG – 400/220KV T/F T-1 & T-2
- 3 400KV Dhanonda-Mahendergarh PG Ckt-1

HVPL requested NRLDC to resolve the problem of SCADA data mismatch with SEM and restore accuracy of telemetry data.

5 Unified Real Time Dynamic State Measurement (URTDSM) Scheme.

5.1 URTDSM Status (Agenda by HVPL):-

5.1.1 HVPL informed that SAT of URTDSM system installed at SLDC Panipat was completed on 16.02.2018 and has already been confirmed to POWERGRID and M/s GE India Ltd along with certain observations. In accordance with the above, the GSAVT period of 1000 hrs will have to be completed on 29.03.2018. But during SAVT period, URTDSM system failure occurred on dated 28.03.18. Matter has been already taken up with M/s PGCIL & M/s GE India Ltd. to submit the detailed report regarding failure of URTDSM system, but nothing has been received in this regard. Thus repeated SAVT may be carried out on account of the system failure during SAVT period. In addition, out of the total 9 no. PMUs installed at PTPS, only 2 no. PMUs are reporting at SLDC. Moreover the status regarding shifting of 3 Nos. PMU's from PTPS to DCRTP may be intimated. Matter needs to be taken up with the concerned.

5.1.2 Installation of PMU:-

HVPL informed that site survey was done by M/s GE at 220KV DCRTP Switchyard for the re-installation of PMU. Now the dismantling of PMU from PTPS 1 to 4 and installation of PMU pending on part of M/s Powergrid. M/s PGCIL may update the status.

5.2 UP URTDSM issues: (Agenda by UPPTCL)

UPPTCL informed that Khara PMU not reporting, PMU reporting from Fiber Home become intermittent.

5.3 No site engineer is available (Agenda by DTL) :

No site engineer is available for monitoring / trouble shooting of the installed URTDSM system at SLDC, since last two months.

5.4 Unavailability of PMU Data: (Agenda by PSTCL)

PMU data of Guru Gobind Singh Super Thermal Plant(GGSSTP),Ropar is not available till date at Punjab SLDC, although it was assured by PGCIL that said issue shall be resolved during SAVT

PSTCL requested POWERGRID to do the needful in this regard & to intimate the tentative date of availability of PMU data of GGSSTP,Ropar

6 OTHER ISSUES

6.1 Frequent Non- availability of Siemens Site Engineer: (Agenda by DTL)

Two no's Siemens Engineers were deputed at DTL under ULDC Phase 2 scheme. . However, since last 4 months, one site engineer was not reporting at SLDC on regular basis and most of the time he was absent without any notice to our department. Further, the engineers deputed are not fully competent to handle the complaints, on their own. All complaints are to be sent to Mumbai for resolution, thereby increasing system downtime and difficulty in operation. OTS was also non-functional for the last one month.

6.2 Status of revised LOA of AMC of ULDC phase 2 according to GST: (Agenda by DTL)

In line with point no. 3.4.4 of 13th TeST sub-committee MOM, SIEMENS representative was advised to get the contract amended from POWER GRID. POWERGRID may provide the information on action taken.

6.3 DISPOSAL OF OLD AND OBSOLETE SCADA EQUIPMENT OF ULDC-I SCHEME:

6.3.1 Agenda by HPSEB) The recovery charges against ULDC-I scheme was completed during July'2017 but communication regarding disposal of old & obsolete equipment's under said scheme is still awaited from M/s POWERGRID.

6.3.2 Agenda by HVPNL :In the 12th TeST & 13th TeST Meeting, representative of POWERGRID informed that the final payment from the constituents is yet to be

received. Once the payment is received, POWERGRID would issue the letter confirming the disposal of the old and obsolete equipments installed under ULDC Phase-1. But no confirmation in this regard has been received till date.

6.4 Survey off of Old Assets under ULDC Phase-I& Dismantling of Microwave Tower -(Agenda by HVPNL)

The 21 no RTUs and UPS has been replaced with new equipment. Hence the old equipment installed under ULDC Phase-I required survey off. In last meeting PGCIL has stated that Life of ULDC Phase-I equipment will be completed in July' 2017 then these equipment will be property of constituents and they can disposed off at their own. Powergrid may update the status. HVPNL informed that The dismantling case of microwave towers is being processed.

6.4 Delay in payment: -(Agenda by HVPNL)

HVPNL has been made all the pending payments to M/s POWERGRID i.e. amount 22,07,071/- from May-18 to July-18. HVPNL has already been informed to M/s Powergrid for the integration of 23 no. C-264 RTUs and informed that no maintenance was done for these 23 no. S-900 RTU sites. Now no pending payment is there towards HVPNL as of now. POWERGRID may update the status.

6.5 Pending payment of AMC from PTCUL (Agenda by NRLDC)

During last TCC Meeting, NRLDC has requested PTCUL for reconciliation and payment of pending invoice of AMC of old Alstom System.

In this regard NRLDC has written letter to PTCUL but till date no response has been received from PTCUL

PTCUL may update the status of payment.

6.6 Delay in Payment (Agenda by POWERGRID)

POWERGRID is providing consultancy services on RTU/APS/Wideband/OPGW maintenance to constituents on overhead charges basis as per MOU signed with respective Constituents. Constituents are paying on quarterly or yearly basis with advance payment, however even advance payments are being released on delay of 5-6 months and in some cases the delay is of up to one and half year which is not acceptable and POWERGRID have no other option to deduct the overhead charges from advance 1% deposited with us.

Outstanding payment:

1. DTL – Rs. 1.8 Lacs (OPGW)
2. J&K PDD – Rs 23.71 Lac (APS, OPGW, RTU, wideband & Insurance)
3. PTCUL – Rs 8.24 Lac (wideband, APS, OPGW & RTU)
4. UPPTCL – Rs 82 Lac (APS, RTU, OPGW, wideband & Insurance)

5. HVPNL – Rs 8 lacs short payment (RTU, Insurance, OPGW, APS & wideband equipment)

Above outstanding amounts are pending since long back and POWERGRID is regularly pursuing the case with respective Constituents however settlement of payment issue was not closed till date even repeated reminders. Now POWERGRID is going to stop AMC works for UPPTCL, PTCUL and J&K PDD where no issue has been identified for delay of payment.

Revised MOU side letter in line with GST clause has been sent to Constituents for signing to avoid any delay in payment on account of taxes.

6.7. Pending TDS: (Agenda by POWERGRID)

All Constituents are requested to submit Quarterly TDS certificate in time against payment made to POWERGRID for Consultancy / AMC services which is required to match the books of Accounts.

In view of non-payment of insurance charges, all constituents are requested to do their insurance at their own. POWERGRID is not taking may overhead charges, audit has also objected several times for this type of works without any overhead charges and delay in payment.

6.8 Maintaining of temperature at control centres: (Agenda by POWERGRID)

To maintain the temperature in Communication, Server room, Battery room, adequate numbers of Air conditioners must be required to maintain temperature at 27 Degree Celsius. Further, SCADA/URTDMS servers are inbuilt feature for having Auto shutdown to prevent loss of data in case of over temperature (set at 33 Degree), all constituents are requested to main standard AC temperature. J&K PDD is having serious issues of non-maintaining proper temperature in server room which impacted shutdown of communication equipment & SCADA/EMS services several times at Jammu control centre.

Annexure-IA

Follow up of issues of 12th TeST meeting Decisions

Sl No	Issue	Action by	Time line	Compliance status as on 31.08.2018
2.2.4.2	Regarding underground fibre connectivity of UP SLDC Gomti Nagar with 220kV S/S Gomti Nagar. The sub-committee advised POWERGRID for expediting the award process and complete the connectivity at the earliest	POWERGRID	May 2018	Work completed
2.2.9.1	Requirement of E&M card for fiber home PDH/SDH system at RVPNL	POWERGRID	Dec 2018	POWERGRID informed that Requirement from Constituents have received in last week of Feb' 2018, these are additional spare requirement and procurement shall be done by Dec' 2018 as informed in 13 th Test meeting.
2.2.9.2	Repairing of HBL Make DCPS Installed by M/S COMMTEL:	POWERGRID	Jan 2018	Ongoing activity and repairing of DCPSs are under progress.
3.2.5.2	BBMB and UP were in process of testing their back-up SLDCs, wherein they were facing some issues. M/s Siemens representative assured to resolve the issues by Jan., 2018.	SIEMENS	May 2018	UPPTCL, BBMB & PSTCL networking issues has been resolved after change in IP configuration for SLDC/Sub-LDCs.
3.2.5.3	All the SLDCs would test back-up SLDC at least once in every six month. The sub-committee advised all the members to complete this exercise by 31st March, 2018	ALL SLDCs & SIEMENS	31.03.2018	<i>Respective Constituents may test their back up control room testing.</i>
5.1.1	NTPC informed that extension work of building at Dadri was going on and work would be	NTPC & POWERGRID	15 th May	NTPC confirmed their readiness of control

	completed by end of Feb' 2018, then POWERGRID can install PMUs in Dadri NTPC control centre.		2018	room on 9 th August' 2018, accordingly team has been deployed for PMU installation, work is in progress
3.2.5.3	All the SLDCs would test back-up SLDC at least once in every six month. The sub-committee advised all the members to complete this exercise by 31st March, 2018	ALL SLDCs & SIEMENS	31.03.2018	<i>Respective Constituents may test their back up control room testing.</i>

Annexure 1B

Follow up of issues of 13th TeST meeting Decisions

2.3	AMR data through Fibre Network	NRLDC & POWERGRID	15.06.2018	Communication links has been configured, scheme implementation is done through protection team.
2.4.2	Issuance of Technical Standards for the communication system	All Constituents	26.05.2018	
2.5.2.1 & 2.5.2.2	Implementation of OPGW under Package-I (a). Iva and V: HPSEB issues	POWERGRID	Sept/Oct 2018	<i>POWERGRID NR-II will update</i>
2.2.3.1	Replacement of diverted Communication Equipments /Additional BOQ for DTL	POWERGRID	31.12.2018	POWERGRID informed that as per DTL requirement for ECI make equipment, these will be supplied by Dec' 2018 as informed in 13 th Test meeting.
2.5.5.5	Implementation of Multi Site Configuration between SLDC Chandigarh and SLDC Patiala:	POWERGRID	15.05.2018	Work completed.

2.6	The sub-committee advised all the constituents to submit requirement of additional Ethernet ports/SDH equipment latest by 15 th May, 2018	All Constituents	15.05.2018	Ethernet Port requirement was not submitted by any of the Constituents.
3.6.1	PSTCL Multisite link issues	POWERGRID & SIEMENS	31.05.2018	Multisite implemented.
5.3	NTPC informed that extension work of building at Dadri was going on and work would be completed by end of Feb' 2018, then POWERGRID can install PMUs in Dadri NTPC control centre.	NTPC & POWERGRID	15 th May 2018	NTPC confirmed their readiness of control room on 9 th August' 2018, accordingly team has been deployed for PMU installation, work is in progress
5.5.1	BBMB BBMB informed that URTDSM Scheme, 2 * 60 kVA UPS system along with Battery Bank had to be provided by POWERGRID.	POWERGRID	Supply by July 2018 & installation by Sept 2018	UPS along with battery bank has been delivered, installation shall be done by 15 th Oct' 2018
6.8	Pending TDS : POWERGRID requested all Constituents to submit Quarterly TDS certificate in time against payment made to POWERGRID for Consultancy / AMC	All Constituents	15.05.2018	Some of the Constituents have shared the details, however in general no Constituents have shared the details regularly.
6.9	Signing side letters of AMC MOU. POWERGRID agreed to send side letters and relevant constituents agreed to send signed letters by 31.05.2018.	POWERGRID	31.05.2018	POWERGRID send side letter in May' 2018 however signing of Side letter are still pending from DTL, RVPNL, UPPTCL & J&K PDD for OPGW maintenance and side letter for RTU maintenance is pending from PTCUL & PDD
6.10	Maintaining of temperature at control centers :	All Constituents	31.05.2018	<i>J&K PDD have not complied till date and</i>

				<i>due to this communication equipment & SCADA/EMS services shutdown several times at Jammu control centre</i>
6.11	<u>Draft Communication Audit Procedure</u> The sub-committee advised all the constituents to send their comments, if any,	All Constituents	31.05.2018	