



Agenda
for
2nd TeST Meeting

Date: 26.11.2019
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

EASTERN REGIONAL POWER COMMITTEE

AGENDA FOR 2ND TELECOMMUNICATION, SCADA AND TELEMETRY SUB-COMMITTEE MEETING TO BE HELD AT ERPC, KOLKATA ON 26.11.2019 (TUESDAY) AT 11:00 HOURS

PART – A : CONFIRMATION OF MINUTES

ITEM NO. A.1: Confirmation of minutes of 1st TeST Sub-committee meeting held on 24.10.2019

The minutes of 1st TeST Sub-committee meeting held on 24.10.2019 circulated vide letter dated 21.11.2019.

Members may confirm the minutes of 2nd TeST Sub-committee meeting.

PART – B : ITEMS FOR DISCUSSION

ITEM NO. B.1: Provision of OPGW along with communication equipments in Important ISTS Lines (for strengthening of OPGW Network of ER-Grid and ER-NR & ER-WR Connectivity)

In 23rd SCADA O/M meeting held on 06.03.2019, ERLDC requested ERPC to form a committee who can ascertain the requirement of OPGW along with communication equipment after considering the route diversity to bring reliability in Power System operation as per requirement.

Accordingly, a Committee was formed. The committee met on 14.08.2019 and 24.10.2019, wherein the members discussed about the requirement of additional Inter-regional and Intra-regional OPGW links for strengthening of Eastern Regional OPGW network.

Followings are the list of additional OPGW link, which are envisaged by the committee for implementation along with communication equipment and DCPS:-

Sl No	Corridor	Selected lines for laying OPGW	Length (km)
1	ER- NR	765 kV S/C Gaya-Varanasi Line –I	265
2		400 kV D/C Patna – Balia Line –I	195
3	ER - WR	765 KV S/C Ranchi – Dharamjaygarh Line-1	305
4		765 KV S/C Jharsugada – Dharamjgarh Line-1	149
5	ER-SR	400 kV D/C Jeypore – Gazuwaka	221
6	ISTS network	400 kV D/c Nabinagar (BRBCL) Generating Station – Sasaram	82
7		400 kV Farakka –Purnea	160
8		400 kV Farakka-Sagardighi-Subhasgram	301
9		400kV Maithan (PG) – Durgapur (WB)	128
10		400KV Durgapur (PG) – Sagardighi (WB)	72
11	DVC network	220 KV KTPS – Giridih (Line # 251 , 252)	101
12		132 KV Jamuria – Ramkanali (Line # 90)	53
13		132 KV Ramkanali – CTPS (Line # 60)	70
14		132 KV Purulia – Jamshedpur (Line # 39,40)	87

15		132 KV CTPS – Gola (Line # 6,7)	67
16		Howrah (DVC) – Howrah(WB)	1
17	JUSNL	220 kV Daltanganj (JUSNL) – Latehar (JUSNL) LILoed at Daltanganj (PG)	90
18		220 kV Jodda (OPTCL)- Ramchandrapur (JH)	130
19		220 kV Chandil (JH)- Ranchi (PG) (up to LILo point)	90

All constituents agreed for implementation of the above-mentioned OPGW links in Central Sector (Sl. 1 to 10) by Powergrid.

DVC also requested Powergrid to take up the implementation of OPGW links of DVC Sector (Sl. 11 to 16).

JUSNL also requested Powergrid to take up the implementation of OPGW links of JUSNL Sector (Sl. 17 to 19).

The detailed report is available at ERPC website in Miscellaneous/Reports section.

Members may discuss.

ITEM NO. B.2: Establishment of State-of-the-Art Unified Centralized Network Management System U-NMS for ISTS and State Utility Communication Network in Eastern Region

CERC notified Communication Regulation which envisages Centralized Supervision System for ISTS Communication.

As per the regulation clause no 7.2 (vii):

“CTU shall be the Nodal Agency for supervision of communication system in respect of inter-State communication system and will implement centralized supervision for quick fault detection and restoration.”

The issue was discussed in 24th SCADA O&M Meeting held at ERLDC on 14th August 2019, wherein Member Secretary, ERPC informed that a Committee is required to form for the assessment of technical requirements to facilitate monitoring of ISTS communication network in line with CERC regulation.

Accordingly, a Committee was formed and the Committee was met on 24th October 2019 at ERLDC, wherein POWERGRID made a detailed presentation on Unified Network Management System (U-NMS) Project to be implemented for managing Project for ISTS & State utilities communication network at State, Regional & National level.

Members discussed the technical aspects of U-NMS proposal and generally found it is feasible technically for the U-NMS proposal. All Constituents have given their consent for implementation of U-NMS Project for Central Sector as well as for the State Sector/Constituents.

Powergrid informed that the estimated cost for Eastern Region ISTS and state network U-NMS is **Rs. 99.93 Crs excluding AMC cost which is estimated as Rs. 2.6 Crs for 6 years after Warrantee period.** U-NMS Project implementation Schedule is considered as 24 months. Investment made by POWERGRID is proposed to be recovered through tariff as notified by CERC. Also it has been deliberated and agreed upon that AMC for U-NMS shall be carried out by POWERGRID itself for Central as well as State sector.

Members may approve.

ITEM NO. B.3: Communication availability from NLDC/SLDCs to the nearest wide band node/switchyard for the generating stations under AGC -- NLDC

Hon'ble Central Electricity Regulatory Commission (CERC) in the matter of Automatic Generation Control (AGC) implementation in India, has issued the direction that all thermal ISGS stations with installed capacity of 200 MW & above and all hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC, to install equipment at the unit control rooms for transferring the required data for AGC as per the requirement to be notified by the NLDC.

Considering the importance of communication links being used for automatic controls, same common points may not be used along the path to ensure near 100% availability. Also, in line with CERC order, all the power plants are supposed to take necessary action for arranging the communication (through redundant and alternate paths) from the existing nearest wideband communication node to unit control room through two fibre optic cables, in coordination with CTU. Above ISGS stations should be enabled before 28th February, 2020 as per the order of CERC.

The list of plants identified for AGC operation by NLDC in Eastern Region are as given below-

S. No.	Power Plant	T/H	Cap (MW)	Nearest wideband node	Main communication path available ?	Alternate communication path available ?	Route diversity available for alternate path?
1	Farakka STPS – I & II	T	1600				
2	Kahalgaon STPS – II	T	1500				
3	Barh STPS	T	1320				
4	Maithon Power Limited	T	1050				
5	Talcher STPS – I	T	1000				
6	Kahalgaon STPS – I	T	840				
7	Nabinagar Thermal Power Project	T	750				
8	Teesta – V	H	510				
9	Farakka STPS – III	T	500				
10	MTPS Stage - II	T	390				
11	Rangit	H	60				

Members may deliberate further action plan.

ITEM NO. B.4: Issue of trial operation/completion certificate by ERLDC for Alipurduar-Punasangchu OPGW link—Powergrid

The OPGW work in Alipurduar-Punasangchu link (64 Km) alongwith communication equipment was completed for India Portion on 28.03.2019. POWERGRID requested ERLDC to issue Trial Operation Certificate/Completion certificate for India Portion of Alipurduar-Punasangchu link. ERLDC vide their letter dtd 24.09.2019 intimated that the certificate can be issued after transfer of data & voice through this link. But the work is completed by POWERGRID for Indian Portion (with transmission line) and the link could not be established due to pending work in Bhutan side. Accordingly it is requested to issue the trail operation/completion certificate by ERLDC for Alipurduar-Punasangchu link (India Portion).

Members may discuss.

ITEM NO. B.5: Display of real-time system data at ERPC Secretariat

As per the internal meeting held on 25.11.2019 at ERPC, MS ERPC suggested that a real time system data along with display may be provided for real time monitoring and reporting purpose of ER grid.

Members may discuss.

ITEM NO. B.6: Non-Functioning of UPS-1 at SLDC, DVC, Howrah since 04.11.2019

DVC informed that necessary action has to be taken to avoid any sort of emergency in absence of redundancy of the Auxiliary power supply for the system in urgent basis.

Members may discuss.

ITEM NO. B.7: List of pending issues at SLDC DVC Howrah and ALDC DVC Maithon in respect of SCADA/EMS systems**1. Pending Issues at SLDC DVC Howrah**

SI. No.	Description of pending issue	Remarks	Timeline for completion
(1)	(2)	(3)	(4)
1.	5 (Five) nos of Server Fan	Faulty Fan not repaired.	
2.	1 (one) nos of RTU Node	Faulty Node from Burdwan not repaired since 30.04.2019 and not returned till date.	
3.	Cyber Security Audit for 2019	Last conducted on 23/02/18. Not Done in 2019.	
4.	3 (Three) nos. Terminal Server	Faulty Terminal Server not repaired and not returned till date.	
5.	Preventive maintenance of RTU	Not yet initiated.	
6.	Remote operation of Circuit Breakers in following 33 kv feeders required to be tested and made operational for ADMS System (i) Burdwan S/Stn 33Kv WBSETCL (ii) Maithon HPS 33Kv Kulti 1 Feeder 33Kv Kulti 2 Feeder (iii) Kumardhubi S/Stn 33Kv Kumardhubi 1 (JUSNL Feeder) 33Kv Kumardhubi 2 (JUSNL Feeder) (iv) Chandrapura TPS	-Status of CB, Isolator not available -Status of CB and Isolator available -Status of CB and Isolator available -Status of CB, Isolator not available -Status of CB, Isolator not available -Status of CB and Isolator	

	33Kv Kumardhubi 1 (JUSNL Feeder) (v) Gola S/Stn. 33Kv Hoppu Feeder (vi) Ramgarh 33Kv Ramgarh (JUSNL Feeder)	available -Status of CB and Isolator available -Status of CB, Isolator not available	
7.	LDMS not working at following S/s.: -		
	(i) Kolaghat S/s	LDMS not set right till date.	
	(ii) Parulia S/s	-Do-	
8	19 (nineteen) nos. MFM are faulty.	Faulty MFM of Putki/Patherdih not repaired and not returned till date.	
9.	Analog and Digital Data from Jamshedpur S/Stn for 33Kv JUSCO Feeder not available.	33Kv JUSCO Feeder Cable Schedule is included in BOQ.	
10.	DC-to-DC Convertor of Jamuria S/Stn	Data not reporting from Jamuria S/Stn	
11.	1 (One) No of Cell (2V) of battery Bank is faulty	UPS Running bypassing the said Cell	
12.	Hardware person should be posted at Maithon	Maintenance is difficult from Howrah	

M/s Chemtrols may explain.

2. Pending issues at ALDC DVC Maithon

Sl. No.	Description of pending issue	Remarks	Timeline for completion
(1)	(2)	(3)	(4)
1.	2 (two) nos of Rectifier Module	Faulty Module from Gola and Nimiaghat each not repaired and not returned till date.	

M/s ZTT may explain.

ITEM NO. B.8: Replacement of old RTU in Eastern Region for reporting of RTU / SAS to back-up Control Centre

Present status of RTU/SAS replacement / up-gradation:-

Utility	Status	Deliberation in the 1 st TeST meeting	Target
POWERGRID	Pending	POWERGRID intimated that process for placement of LoA has already been started and informed that NIT would be floated by November, 2019.	

Maithon Right bank (MPL)	RTU/SAS Upgraded	ERLDC informed that SAS system at MPL is upgraded but reporting to ERLDC BCC is yet to be done and hence, requested MPL to call their vendor so that configuration at their end could be done properly for its dual reporting. MPL agreed for the same.	
New Farakka (Stage III)	Completed	Dual reporting has been completed at their end but testing is pending which will be done shortly.	
NTPC, Farakka (Stage I & II)	Pending	LoA for replacement of RTU would be placed by December, 2019.	
Talcher STPS	RTU Upgraded	NTPC Talcher Stage #1 informed that they have made a plan for dual reporting of their SAS to ERLDC and to SRLDC also. ERLDC informed that they need two separate channels of reporting of real time SCADA data, one at ERLDC MCC and another at ERLDC BCC. ERLDC further advised if this plan suffices our requirement then they can go ahead and implement this.	
Kahalgaon STPS	Pending	LoA for replacement of RTU would be placed by November, 2019.	---
Chuzachen HEP	Pending	Chuzachen HEP informed that they are up-grading their system by January 2020.	With the availability of OPGW between Chuzachen - Rangpo.
JITPL	Pending	POWERGRID informed that OPGW work will completed by Feb-2020	February-2020
GMR	Pending	POWERGRID informed that OPGW work will completed by Feb-2020	February-2020
JUSNL	Pending	JUSNL informed that LOA was already awarded in June 2019.	March, 2020
OPTCL	Pending	OPTCL informed that LOA for replacement / up-gradation of old RTUs (78Nos) will be awarded by November,2019.	November,2020
WBSETCL	Pending	WBSETCL informed that they are going to place the order shortly with an implementation schedule of 2 years (1809 km OPGW laying works & 35 Nos. of RTU replacement works).	
DMTCL Motihari	Pending	DMTCL representative was absent during the discussion.	OPGW not available
BRBCL Nabinagar	Pending	DMTCL representative was absent during the discussion.	OPGW not available
Teesta – III	Pending	Teesta III representative was absent during the discussion.	OPGW not available
Dikchu	Pending	Dikchu representative was absent during the discussion.	OPGW not available

NHPC (Teesta – V & Rangit)	Pending	NHPC representative was absent during the discussion.	
Jorethang	Pending	Jorethang representative was absent during the discussion.	OPGW not available
APNRL	Completed	---	---
Barh	Completed	---	---

Members may update the latest status.

ITEM NO. B.9: Redundancy of communication links for ICCP between control centres

Redundancy of ICCP communication links from all state control centre including their back-up to Main ERLDC are already implemented. Redundancy of ICCP communication links from all state control centers except DVC-MCC (Andul Road) & WBSETCL-BCC (Abhikshan Bhawan) to back-up ERLDC located at NLDC, New Delhi is yet to be provided.

1. DVC MCC located at Andul Road to ERLDC BCC at New Delhi

In 1st TeST meeting, POWERGRID requested ERLDC to provide space for installation of ULDC equipment at Backup ERLDC (NLDC) so that link may be configured in ULDC network. ERLDC agreed for expediting the resolution of the issue and necessary support for installation of the equipment at Backup ERLDC.

DVC further requested to include underground OFC in Howrah (WB) to Howrah (DVC) under the scope of upcoming project – ‘Strengthening of Inter-regional & Intra-regional OPGW Communication Links for Strengthening of Eastern Region’ and also requested WBSETCL to provide necessary permission & space for laying of Underground OFC and terminal equipment. WBSETCL agreed for the same.

Powergrid intimated that for further DVC data transmission from WBSETCL, Howrah to New Delhi, bandwidth provision either through POWERTEL or combination of WBSETCL and Powergrid may be explored and finalized by DVC. DVC agreed for the same.

ERLDC, WBSETCL, DVC may update.

2. WBSETCL MCC Andul road to ERLDC BCC located at New Delhi

In 1st TeST meeting, Powergrid requested ERLDC to provide space for installation of ULDC equipment at Backup ERLDC (NLDC) so that link may be configured in ULDC network.

ERLDC informed that floor renovation at NLDC is going on and hence, requested POWERGRID to wait for 2-3 months for the suitable space at ERLDC BCC located at NLDC, New Delhi.

Powergrid, ERLDC may update.

3. Fiber redundancy in Central Sector OPGW link

There are few paths (especially last mile) where there is no fiber redundancy. Following are the sections where fiber laying is to be done/under implementation:

Farakka to Jeerat

Powergrid informed that presently, FO link connectivity is available between Farakka to Jeerat through Behrampur which doesn't have route diversity. POWERGRID further informed that route diversity for redundancy would be available after commissioning of OPGW link from Farakka to Jeerat through Gokarna, Rajarhat & Subhashgram.

In the 22nd SCADA O&M meeting held on 30th October 2018 at ERLDC, Powergrid informed that ROW issue of 400kV Rajarhat-Gokarna line is yet to be resolved, OPGW link along with communication equipment is expected to be commissioned by July-2019.

Powergrid may also update about pending 10 km OPGW work of Gokarna- Rajarhat line, which is delayed due to the ROW issue.

In 1st TeST meeting, Powergrid intimated that OPGW in Rajarhat-Farakka link will be completed along with the transmission line.

Powergrid may update.

4. Fiber redundancy in OPTCL Sector

Rourkela to Bhubaneswar SLDC

POWERGRID informed that presently, FO link connectivity between Rourkela to Bhubaneswar SLDC is available through TSTPS, Meeramundali & Mendhasal which doesn't have route diversity.

In 24th SCADA O & Meeting, OPTCL informed that Jagatsinghpur to Paradeep OPGW is pending due to Tower shifting work, which is the requirement of Indian Railways. Once the tower shifting work will be completed by Indian Railways, OPTCL will start their work.

In 1st TeST meeting, OPTCL informed that 17 Nos. of towers are being diverted and same would expected to get completed by May, 2020.

OPTCL may update.

5. Fiber redundancy in JUSNL Sector

Ranchi 400 kV (PG) to JUSNL SLDC (Kushai Colony)

POWERGRID informed that presently, FO link connectivity between Ranchi 400 kV (PG) to JUSNL SLDC is available through Hatia 220 kV which doesn't have route diversity.

POWERGRID further informed that route diversity for redundancy between Ranchi 400 kV (PG) to JUSNL SLDC (Kushai Colony) could not be achieved until unless OPGW connectivity from Chandil to JUSNL SLDC through Namkum (132 kV) i.e. 95 Km could be completed. POWERGRID further informed redundant fiber route is to be explored and implemented by JUSNL.

In 24th SCADA O & Meeting, JUSNL informed that they have received approval for PSDF funding for providing protection channel for redundancy between Chandil to JUSNL SLDC (Kushai Colony) but their Cabinet approval is pending.

In 1st TeST meeting, JUSNL informed that they are yet to receive their cabinet approval (50:50 basis).

JUSNL may update.

ITEM NO. B.10: URTDSM Project installed in Eastern Region

The URTDSM project is installed and being used by ERLDC RTSD operators since January 2019. Few observations need to be attended for better utilization of the system:-

- A. **Negative latency:** It has been observed several times that time synchronization problem with single PMU causes outage of all PMUs data at ERLDC (data loss of all PMUs at ERLDC on 26-04-2019 at 02:05 Hrs due to negative latency with Mejia B PMU).
- B. **Playback Application:** Playback application in E-terra Vision is not running properly. While running playback feature in E-terra Vision application, it is observed that critical feature; like color contour display based on frequency, is not working.
- C. **POWERGRID analytics application:** POWERGRID analytical application software, which was supposed to be installed under URTDSM project, is yet to be made functional at SLDCs.
- D. **E Phasor analytics:** E-phasor analytics application is not running properly. While using this application, operators are facing difficulties in comprehending the error message being shown by the application. This matter was informed to GE through mail dated 06.05.19 but solution is yet to be provided.
- E. **Integration with SCADA over IEC 104:** Data export to SCADA from URTDSM system is not working properly.

In 1st TeST meeting, POWERGRID intimated that GE R&D team has come out with a solution for Negative latency issue (S. No.- A) and Playback Application Issue (S .No.- B) which will be implemented shortly after successful testing.

E-phasor analytics (S. No.- D) and Integration with SCADA over IEC 104 (S. No.- E) is still under R&D team of M/s. GE and the issues will be addressed after solution provided by GE R&D team which is expected by November, 2019.

Powergrid will complete the installation of the analytical application (S. No.- C) modules at DVC (Howrah) and WBSETCL (Howrah) within December-2019.

Powergrid may update.

• **URTDSM Data Summary:-**

Under URTDSM project, 12 nos. PMUs could not be commissioned due to various reason as mentioned below:

- a. Bankruptcy/admin. issue : 2 PMUs (IPPs - Monnet & IndBharat)
- b. Non-availability of communication link : 8 PMUs (GMR IPP & JITPL IPP)
: 2 PMUs at Tenughat
- c. Substation not ready : 3 PMU at Patratu

In 1st TeST meeting held on 24.10.2019, the issue was discussed and POWERGRID requested for short-closing of the pending erection/commissioning activities of PMU in above sites.

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As there is no change in status even after long period of waiting, pending completion of above, POWERGRID may be given go-ahead for submitting tariff petition based on the supply and works carried out in actual for the above-mentioned 12 nos. PMUs at 06 nos. sites.

In 163rd OCC meeting, it was informed that the issue of communication links for GMR, JITPL and Tenughat is being discussed in TeST meeting.

For other PMUs, OCC advised to keep the PMUs as spare wherever it is accessible.

In 1st TeST meeting, followings were discussed –

Kahalgoan STPS:- Powergrid intimated that the visit of GE engineer has been scheduled to various sites for rectification of PMUs which are not reporting at ERLDC.

Sterlite:- ERLDC requested Powergrid to report the same to OPTCL URTDSM system first and ERLDC would get the data through PDC to PDC. OPTCL agreed to provide required communication link so that the same could be integrated and URTDSM data could be reported to OPTCL system.

Talcher STPS:- Powergrid informed that PMU integration at Tacher STPS would be completed by November, 2019 once the status point integration by NTPC is completed. Powergrid agreed to provide the drawing so that NTPC would complete their work.

Redundant communication link in URTDSM project:- Powergrid agreed to provide redundant communication links between control centres in URTDSM project by 300th November, 2019.

Others PMUs non-availability:- Powergrid requested to consider for short-closing of the contract with as-is-where-is basis (excluding erection cost, wherever applicable) With regard to non-commissioning of PMUs at various IPPs and locations which are not ready. ERPC advised Powergrid to discuss the issue at next OCC meeting for a concrete decision in this regard.

Powergrid, NTPC and OPTCL may update.

Members may discuss.

- **SCADA Data Summary :-**

State Sector: Following are the deliberations regarding data non availability of state sector stations:-

AOR	Station	Status	Deliberation in the meeting
WBSETCL	TLDP 4 220kV	Not Available	
	Dharampur 220kV	Not Available	
	Egra 220	Yet to be integrated	<i>WBSETCL informed that they are getting Egra 220 kV data and hence requested ERLDC to configure it at their end.</i>
	Bantala 220kV	Not Available	
	Alipurduar 220kV	Not Available	
BSPTCL	Motipur 220kV	Not available	
JUSNL	Hatia New 220	Not Available	<i>JUNSL informed that by March,</i>
	Jamtara 132kV	Not Available	

	Garwa 132kV	Yet to be integrated	<i>2020 they will make available all the data in their jurisdiction.</i>
	Deoghar 132kV	Not Available	
	Kendposi 132 kV	Not Available	
OPTCL	JSPL 400kV	Most of the data not available	<i>OPTCL informed that by June, 2020 they will make available all the data in their jurisdiction.</i>
	Nalco 220kV	Most of the data not available	
	Narsingpur 220kV	Station commissioned at 220kV without data telemetry	
	Bargarh 220	Station commissioned at 220kV without data telemetry	

Members may update.

PART – C : ANY OTHER ITEMS

ITEM NO. C.1: FOLLOW-UP OF DECISIONS OF THE PREVIOUS PROTECTION SUB-COMMITTEE MEETING(S)

The decisions of previous PCC Meetings are given at **Annexure-C1**.

Members may update the latest status.

ITEM NO. C.2: Status of various projects undertaken by M/s Chemtrols in Eastern Region

Latest status of various projects undertaken by M/s Chemtrols in Eastern Region are given at **Annexure-C2**.

M/s Chemtrols may update the latest status.

Sl No.	Agenda point	Deliberation in the meeting	Latest status
1st TeST Meeting			
1.	OPGW related matters of BSPTCL <ul style="list-style-type: none"> • Losses found in 132 KV MTPS-Motihari & Motihari-Betia line which is yet to be corrected as SAT of future line are pending since long. • Installation work of OPGW taken up for 132 KV Kahalgaon(BH)-Kahalgaon(NTPC) T/L but not completed yet. 	POWERGRID informed that they will depute the team by November, 2019 and requested BSPTCL and NTPC for necessary site access at their location for carrying out the said work. BSPTCL and NTPC agreed for the same.	
2.	Instability of Data – BSPTCL <ul style="list-style-type: none"> • SDH- The improper maintenance of communication equipments and lack of manpower for communication equipments like SDH (Fibcom) and frequent failure of cards (E1/Ethernet) at different GSSs. • PDH- Even after issuance of TOC of PDH (Tejas) provided under scheme of SCADA Upgradation, PDH system is leading to untimely hanging and intermittent data to SLDC and failure of 64 Kbps data cards at different GSSs. 	POWERGRID informed that they will once again take up the matter with Fibcom so that the same could be addressed soon.	
3.	Reporting of BTPS Old Data-BSPTCL - Data of BTPS Old is not reporting to SLDC since long.	NTPC informed that they will look into the matter to resolve it at the earliest.	
4.	Readiness of UPS Room for Backup NLDC Control Center under URTDSM Project	ERLDC informed that the contract for finalization of the work of renovation of UPS room will be completed by February, 2020.	

SL No	POSO / Constituent	Status on 31.07.19	Proposed completion date	Current Status on 24-10-2019	Latest Status
ERLDC Portion					
a)	Improper modeling of TCSC, FSC & HVDC in SCADA system	Director Chemtrols informed that they are not getting necessary support from OSI to attend this issue hence requested ERLDC & ERPC to mediate in this matter for early resolution. MS ERPC mentioned that to resolve these points OSI support is required so he advised ERLDC to invite OSI for attending the upcoming 24th SCADA O&M meeting to be held on 14th August 2019 at ERLDC,Kolkata. ERLDC agreed for the		OSI / Chemtrols given proposed for handson training for at OSI Bangalore on chargeble basis. ERLDC informed that OSI person is not present to discuss this point. ERPC requested POWERGRID to co-ordinate with OSI & Chemtrols to call a meeting at ERPC within 15 days so that these points could be delibrated and resolved. ERPC	
b)	STATCOM Modeling not incorporated in SCADA system	same.		further informed that points not resolved then the same will be taken to the TCC/ERPC board meeting.	
c)	Integration with WAMS				
d)	Non functionality of STLF features in SCADA system since 13th April 2018				
e)	PM not being carried out by M/s Chemtrols through OEM	M/s Chemtrols informed that they have already procured server FANs for all sites. They further informed that server HDD procurement is under process and the same is	15.09.19	UPS, DG will be done by OEM. Rest PM is carried out by Chemtrols engineers.	

l)	Implementation of Automatic Demand Management Scheme (ADMS) in Bihar & Jharkhand	JUSNL informed that ADMS testing has been completed but they are waiting for clearance from their DISCOMs for final implementation of ADMS in their system. BSPTCL informed that they have communicated implementation of ADMS to their DISCOM & SLDC but they are yet to receive communication from them. ERPC informed that this is long pending agenda and it should get resolved as soon as possible otherwise the same would again be forwarded to OCC / ERPC for further deliberation or advise.		JUSNL completed from our end. Bsptcl final list not provided by BSPTCL	
f)	Preventive Maintenance of DG Sets: Scheduled Preventive Maintenance of both DG Sets for Quarter II of 2019 (April-June 2019) are yet to be conducted. The Q1 AMC were conducted during March 2019 (against initial schedule of Jan 2019). Several correspondences have been made with the party to conduct the PM in equal interval which is seldom maintained.			DG Maintanance is going on schedule. Procurement of battery and coil is under process and will be completed by 30th November 2019.	

g)	Daily SOE from all constituent to ERLDC is not getting generated automatically.			work in progress	
DVC					
a)	Spares for workstation and system accessories (e.g. Fans, SMPS, RAM, Mouse, Keyboard etc) are not available.	M/s Chemtrols informed that they have already procured server FANs for all sites. They further informed that server HDD procurement is under process and the same is expected to be completed.	15.09.19	completed	
b)	Cyber security audit report is not submitted by M/s Chemtrols even for the last year conducted on 23.02.2018.	Chemtrols informed that they have already submitted the compliance report. M/s Chemtrols further informed that they would be able to replicate the compliance to other control centres including DVC by 31st August 2019. M/s Chemtrols again informed that they would plan to	31.08.19	work in progress. Will be completed by 30.11.19	
c)	Problems related with RTU maintenances are accumulated due to nonrectification of any issue on time.	DVC informed that problems related with RTU are accumulated due to poor maintenance of RTU & non-rectification of issue in time. M/S Chemtrols informed that RTU maintenance would be carried out as and when their engineer is visiting site for attending the problem. DVC further requested M/s Chemtrols to share the RTU maintenance report and M/s Chemtrols agreed for the Same.		completed	

d)	(iv) 19 nos MFM and 01 (one) Node are faulty – to be rectified.	Chemtrols informed that they will take up the matter and resolve few MFMs as they are not geetting		MFM will be repair only in chargeble basis. Repairing charge quotation will send to	
	(vii) Analog and Digital Data from Jamshedpur S/S for 33 KV JUSCO line is not available.	Chemtrols confirmed that they would resolve the issue at the earliest.	16.08.19		
e)	Data Reporting Issues:				
	(i) Mosaboni S/S – Analog and Digital Data from all 33 KV Bays.	Chemtrols informed that they would be visiting DVC, Maithon to resolve the issue.			
	(ii) Kolaghat S/S - Analog Data for 132 KV Howrah Bay, Kharagpur Bay, Kolaghat (WB) bay				
	(iii) Nimiaghat S/S - Both Analog and Digital Data from all 33 KV Bays				
	(iv) CTPS B: Analog data of LV side from Gen # 7 & 8.				
	(v) MTPS A: Analog data of LV side from Generator # 6.				
	(vi) Biada S/S: Both Analog and Digital Data for all 33 KV Bays and Digital for all 132 KV bays.				
f)	PM of DG is never carried out since installation	M/S Chemtrols informed that they will conduct the Preventive Maintenance for DG Sets once they are able to renew the contract with M/s Garuda Power	16.08.19	schedule in 06-11-19	
g)	Three (3) nos. faulty Terminal Servers to be repaired	Chemtrols informed that the same would be completed at the earliest.	30.09.19		
JUSNL Portion					

a)	AMC cost including implementation of ADMS charged by M/s Chemtrols	Delibration mentioned in first page.			
b)	CPU of LDMS of Japla, Latehar, Daltonganj and Kanke are not working	Chemtrols informed that the same would be completed at the earliest.	31.08.19		
c)	Maintenance related with B-check for 125 KVA DG Set installed at SLDC :	ERLDC informed that clarification regarding Bcheck consumable is already given in 3rd Special SCADA meeting held on 07.06.19. ERLDC advised JUSNL to go through the MOM for clarification. JUSNL agreed for the same.			
d)	Requirement of Anti-virus for DTS Workstations	Chemtrols informed that DTS workstation is not in SCADA LAN and hence, client based anti-virus could not be configured. So, requested JUSNL to arrange for the same. JUSNL agreed for the same.			
OPTCL					

a)	For SCADA system at Bhubaneswar, allotted OSI licenses are as mentioned below	OPTCL informed that they have requested Chemtrols several times for providing additional 12000 Analog & 8000 Status points licenses in their SCADA system installed at Bhubaneswar. Chemtrols informed that they are unable to take any solution for this and hence, requested ERLDC/ERPC to take up the matter directly with OSI. ERPC advise ERLDC to take up this agenda also with OSI in 24th SCADA O & M meeting proposed to be held on 14.08.19 at ERLDC			
BSPTCL Portion					
a)	Isolation Transformer breakdown since 18.08.18	BSPTCL informed that they are yet to get any resolution plan from Chemtrols. Chemtrols informed that they found the vendor at Patna to resolve the issue and the same would be completed at the earliest.	15.09.19	Procurement Done. By 30.11.19 ISO TRF will be supplied at site	
b)	MP 2553 RICOH Printer defective	BSPTCL requested Chemtrols to raised the bill separately so that the same could be processed at BSPTCL end for processing & release of payment.	10.08.19	Quotation submitted to BSPTCL for Damaged parts	

c)	Integration of new bay	BSPTCL informed that integration of new bays is pending from Chemtrols since long. Chemtrols informed that integration of new bays will start once cable laying at site is completed by BSPTCL ERLDC informed that in a special SCADA meeting held on 08.05.17, POWERGRID clarified that supply & laying of required cable for integration of bays is not in the scope of LoA	31.08.19		
WBSETCL Portion					
a)	Chemtrols RTU is not integrated through IEC-104 protocol though communication link is ready	Chemtrols informed that they will provide the schedule by next week and requested WBSETCL to confirm the availability of communication link so that the same could be completed at the earliest. WBSETCL agreed for the same.		Most of the sites has been completed where communication links are healthy. In many S/s we have found that link upto SLDC howrah is not stable or through. We request WBSETCL to share the ping test report of all pending sites	
b)	Improper maintenance of DG systems installed at SLDC	M/S Chemtrols informed that they will conduct the Preventive Maintenance for DG Sets once they are able to renew the contract with M/s Garuda Power.	16.08.19	work in progress	