



AGENDA
FOR
34TH NETeST MEETING

Time of meeting : 10:00 Hrs.

Date of meeting : 23rd July, 2026 (Thursday)

Venue : Hotel Nandan, Guwahati

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NORTH EASTERN REGIONAL POWER COMMITTEE

AGENDA FOR 34TH NETeST MEETING TO BE HELD ON 23.07.2026 (THURSDAY) AT 10:00 HRS

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 33rd Meeting of NETeST Sub-Committee of NERPC

The minutes of 33rd meeting of NETeST Sub-committee held on 24.04.2026 at Hotel Nandan, Guwahati was circulated vide letter No. NERPC/NETeST/2026/365-410 dated 05th May, 2026.

No comments were received from the constituents.

The Sub-committee may confirm the minutes of 33rd NETeST meeting of NERPC.

2. PART-B: ITEMS FOR DISCUSSION

AGENDA FROM NERPC

2.1. Performance Audit of Communication systems installed at ISTS/SLDC stations: NERPC

As per Clause 10 of Central Electricity Regulatory Commission (Communication System for inter-State transmission of electricity) Regulations, 2017 – “The RPC Secretariat shall conduct a performance audit of communication system annually as per the procedure finalized in the forum of the concerned RPC. Based on the audit report, RPC Secretariat shall issue necessary instructions to all stakeholders to comply with the audit requirements within the time stipulated by the RPC Secretariat.”

The Communication Audit Committee of North Eastern Region vide NERPC letter dated 30.07.2024 has been formed based on the provision of Central Electricity Regulatory Commission (Communication System for inter-State transmission of electricity) Regulations, 2017. The data format for communication audit is attached as **Annexure B 2.1**.

In the 32nd NETeST meeting, the forum requested the data from the following utilities as per the table described below to conduct the communication audits:

Sl No.	State/Utility	Name of sub station
1	Arunachal Pradesh	SLDC Arunachal Pradesh, Chimpu
2	Assam	Kahilipara and Sarusajai
3	Nagaland	SLDC Nagaland
4	Meghalaya	NEHU and SLDC Meghalaya
5	Manipur	SLDC Manipur
6	Tripura	SM Nagar (Tripura)
7	Mizoram	SLDC Mizoram
8	PGCIL	Nirjuli, Aizawl, Dimapur, Imphal and Misa
9	Indigrid	SM Nagar, PK Bari
10	NHPC	Loktak
11	NEEPCO	Kathaguri

The data from all the NER states, PGCIL and Indigrid has been received via e-mails. PGCIL has submitted the data for NEEPCO (Kathalguri) and NHPC (Loktak) via e-mail dated 23/04/2026. Data from Assam in respect of Sarusajai sub station is still awaited.

The communication audits in respect of SLDC Tripura, SM Nagar (Tripura) and SM Nagar (Indigrid) have been completed on 14th May 2026 and 15th May 2026 respectively.

Members may deliberate.

2.2. Communication System Outage Planning: NERPC

As per Regulation 7.3 of Central Electricity Regulatory Commission (Communication System for inter-State transmission of electricity) Regulations, 2017:

Quote:

The RPC Secretariat shall be responsible for outage planning for communication system in its region. RPC Secretariat shall process outage planning such that uninterrupted communication system is ensured.

Unquote

Communication System Outage Planning will be limited to the following systems:

- (i) ISTS Communication System including ISGS
 - (ii) Intra-state Communication System being utilized for ISTS Communication
 - (iii) ICCP links between Main & Backup RLDCs, Main & Backup SLDCs & Main & Backup NLDCs.
 - (iv) Inter-regional AGC links
 - (v) Any other system agreed by the sub-group
 - Communication System Outage Planning (CSOP) meeting shall be conducted during the third week of every month normally (preferably through VC) to discuss and approve the proposed outages of communication links and equipment.
 - In case of any emergency outage requirement of communication links and equipment, Entities/Users/Owners may directly apply to respective RLDC with intimation to respective RPCs on D-2 basis. Confirmation of approval/rejection will be provided on D-1 basis by RLDCs in consultation with respective RPCs considering 24hrs processing window.
 - Detailed SOP of Communication System Outage Planning attached at
- Annexure-B 2.2**

- As per Communication system outage planning SOP provision, Monthly Communication system Outage planning meeting needs to be conducted in current month for approval of planned outage of communication equipment's and links in next month.
- Hence, it is proposed to start outage planning for Communication system in line with provisions of Communication system regulations, 2017.

In 32nd NETeST meeting, NERLDC presented a draft list of critical communication elements which impacts the NER grid during outage (the list of important FOTE and OPGW links is attached as **Annexure B 2.2 (i) & (ii)**). The forum requested all constituents to review the list and provide their inputs, including any modification, additions of any communication links, devices, or related elements, at the earliest.

It was further decided that proposal for communication system outages shall be discussed and approved along with the monthly OCC Shutdown of Transmission elements, and the status would be updated in the subsequent NETeST meetings on a quarterly basis for the information of members.

In 33rd NETeST meeting the forum noted that planned communication shutdown proposals from May-2026 onwards shall be put up for deliberation in OCC shutdown meetings by all the concerned utilities. The forum also advised NERLDC to allow D-2 communication shutdown proposals only in case of emergency.

Members may deliberate.

2.3. Guidelines on Availability of Communication system: NERPC

CERC vide order dated 19.01.2024 had approved the “Guidelines on Availability of Communication System” (Annexure-B.2.3) under the *Central Electricity Regulatory Commission (Communication System for inter-State transmission of electricity) Regulations, 2017*.

- In 28th NETeST meeting, the sub-committee decided that CTU shall provide the details of communication channels to NERLDC and NERLDC shall forward the information of the channels to NERPC for computation of availability of the communication systems.
- CTU agreed to provide the list of channels as per guidelines from UNMS. Member Secretary, NERPC asked CTU to provide the information within 2 weeks. CTU has not provided the requisite information. CTU to update on the matter.
- In 30th NETeST Meeting, CTU apprised the forum that sharing the desired list of communication channels comes under the operational aspect of grid communication and CTU being a planning body shall not be responsible for sharing the list of communication channels. CTU informed that they file Petition in Hon'ble CERC in October-2024 in this regard & hearing for the petition has been scheduled on 13/02/25. CTU further stated that the course of action shall be decided as per the hearing of Hon'ble CERC.
- NERPC responded that as per Communication regulations shared by the Hon'ble CERC in January-2024, it is the responsibility of CTU to share the details of channels for communication. NERPC further stated that it is important to determine the channels whose availability is to be calculated. ULDC-POWERGRID agreed to share the list of important ISTS channels.
- The forum advised ULDC-POWERGRID to share the list of important ISTS channels by 10th February-2025.

In 31st NETeST meeting, ULDC-POWERGRID shared the list of important ISTS channels to NERPC. However, the forum noted that the format of the shared list does not clarify the type of service for which the channel is being used. Moreover, the nature of the outages and the duration of the down time of the channels are not specified. PGCIL responded that these evolving requirements should be resolved after the proper tagging process is completed.

In the 32nd NETeST meeting, it was informed that the uniform format for Communication Availability was approved in 16th NPC meeting. The forum agreed to adopt the finalized format as approved in 16th NPC meeting.

Further, PGCIL informed that the standard naming convention of Communication channels and equipment is under finalization. The forum advised Powergrid/CTU to share the requisite information at the earliest so that the NERPC can issue the Availability of Communication System.

In the 33rd NETeST meeting, PGCIL apprised the forum that the standard naming convention for communication channels and equipment is under progress. PGCIL further submitted that the issues pertaining to M/s ECI and M/s Tejas make equipment shall be resolved by May-2026. The issues related to M/s Fibcom make equipment are also under progress

Members may discuss.

2.4. Finalization of a common Detailed Project Report (DPR) for the establishment of Cyber Security Operation Centre (C-SOC) at SLDCs: NERPC

As per Clause 3(j) of the Information Technology (Information Security Practices and Procedures for Protected System) Rules, 2018, organizations with protected systems are mandated to establish a Cyber Security Operation Centre (C-SOC) to implement real-time preventive, detective, and corrective controls against cyber threats.

Furthermore, following a review meeting chaired by the Secretary (Power) on 21.03.2025, it was mandated that SOC proposals submitted under the PSDF-funded scheme must include indigenous SOC and NOC solutions, along with a 5-year Annual Maintenance Contract (AMC).

During the 31st NERPC meeting, Chairperson, NERPC opined that NERPC Secretariat shall take over the responsibility of preparing the DPRs and NITs for all the constituent states (with the exception of Assam). This centralized approach aims to ensure the standardization of systems, encourage participation from reputed vendors, and facilitate the cost-effective implementation of the project across the region.

To achieve this, NERPC forum suggested that a Sub-Committee comprising representatives from all the concerned states, NERLDC, and NERPC be formed to thoroughly review and finalize the DPR.

The Sub-Committee would comprise 1 member each from Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Tripura and NERLDC and NERPC Secretariat would be Convener of the committee.

In view of the above, a letter requesting the nomination of officers (Name, Designation, Contact No., Email ID) possessing the requisite technical background not below the rank of Executive Engineer (EE), was sent via e-mail dated 02/04/2026. The nominations were requested latest by 10th April 2026.

DoP, Arunachal Pradesh, SLDC Mizoram and SLDC Tripura have sent the requisite nominations.

In the 33rd NETeST meeting, NERPC Secretariat apprised the forum that the draft DPR has been prepared and comments are awaited from the state utilities for the BoQ part of the DPR.

Arunachal Pradesh, Tripura & Mizoram have already sent their nominations. Meghalaya apprised the forum that the nomination for the sub-committee to finalize the DPR has been submitted via e-mail dated 23/04/2026. Manipur mentioned that nominations would be sent soon.

Member Secretary stated that once the nominations are received by NERPC Secretariat, a meeting would be convened to finalize the DPR so that the same could be sent to PSDF Secretariat at the earliest.

Nominations from SLDC Manipur have been received via e-mail dated 04/05/2026. Nominations from the remaining states are awaited.

Members may deliberate.

2.5. Regional Cyber Security Coordination Forums for NER: NERPC

The Government of India, through Information Technology Act-2000 laid the foundation of CERT-In, an organization dedicated to the cause of Cyber Security Standards,

Compliances, Incident Response and Guidance. The GoI, Ministry of Power, CEA and Central Electricity Regulatory Commission brought in multi-layered approach to coordinate cyber defence, considering the intensity and complexity of the cyber threat perceptions in Indian Power Sector.

Brief of the relevant Regulations with respect to regional-sub-sectoral coordination forums are given under:

- i. Clause 53(1) & (2) of IEGC 2023 stipulate as below:
 - a) The sectoral CERT (Computer Emergency Response Team) for wings of power sector, as notified by Government of India, from time to time, shall form a Cyber Security Coordination Forum with members from all concerned utilities and other statutory agencies to coordinate and deliberate on the cyber security challenges and gaps at appropriate level. A sub-committee of the same shall be formed at the regional level.
 - b) The sectoral CERT shall lay down rules of procedure for carrying out their activities.
- ii. The draft Central Electricity Authority (Cyber Security in Power Sector) Regulations, 2025 proposes the following (at Clause 5):

The Authority through separate order may also designate sub sectoral CERTS in Power Sector for Generation, Transmission, Distribution, Grid Operation and any other sub-sector, along with their roles and responsibilities, to assist CSIRT-Power.

The Government of India after reviewing the needs of Cyber Security in Critical Infrastructure Sector, created dedicated Sectoral CERTs. Following the directives of GOI/ CERT-In, MOP created six sectoral CERTs and designated nodal organisations, as listed below:

S.No.	Sectoral CERT	Nodal Organization
1	CERT – Thermal	NTPC
2	CERT – Hydro	NHPC
3	CERT – Transmission	POWERGRID
4	CERT – Distribution	DP&T Division, CEA

5	CERT – Grid Operation	NLDC
6	CERT – Renewable Energy	MNRE/SECI

The status of Regional Cyber security Coordination Forum(Thermal, Hydro and Transmission) in NER may be discussed.

In 31st TCC Meeting, the forum opined that the item is to be further discussed in Sub-Committee meeting(s) for detailed study/deliberation/clarification and is therefore referred to the Sub-Committee(s) of NERPC.

In the 33rd NETeST meeting, after detailed deliberations, the forum agreed that each nodal agency shall form a sub-committee for each sectoral CERT for NER grid consisting of

- Representatives specializing in Cyber Security/IT from the respective nodal agencies, NERLDC, NERPC and Central/State Sector Generators/IPPs (For CERT Thermal/Hydro)
- Representatives specializing in Cyber Security/IT from the respective nodal agencies, NERLDC, NERPC and Central/State sector Transmission utilities/other TSPs (for CERT-Transmission).

The forum also noted that the respective sub committees shall sit quarterly to discuss the cyber security issues of NER grid pertaining to that sector. A letter in this regard shall be issued by NERPC to all the concerned stakeholders.

Accordingly, NERPC has issued letters dated 08/05/2026 for formation of sub committees for:

1. CERT-Thermal to NTPC (Bongaigaon)
2. CERT-Hydro to NHPC
3. CERT-Transmission to POWERGRID, NERTS

NTPC, NHPC & NERTS may update. Members may discuss.

2.6. Progress of SCADA/EMS ULDC-III Project of NER: NERPC

With reference to the NER SCADA/EMS ULDC-III Project which the 26th Monitoring Committee of PSDF had assigned to POWERGRID for implementation. PSDF has agreed to provide 70% of the cost of the project as grant and 30% of the cost of the project shall be contributed by POWERGRID as an equity.

During the 31st NERPC/TCC meeting held on 11th- 12th March 2026 at Aizawl, Mizoram following were recommended:

NERPC forum noted the consensus among the constituent states, including the formal agreement from Mizoram, for implementation of the NER SCADA/EMS ULDC-III Project under the 70:30 funding mechanism.

Emphasizing that the comprehensive DPR already includes the AMC, the forum advised POWERGRID to proactively take up the matter with their higher management to secure the necessary approvals for executing the AMC component.

In the 33rd NETeST meeting, the issue on the AMC portion was also deliberated.

In 239th OCC Meeting, it was informed that after multiple communication with PGCIL regarding undertaking of AMC portion, a reply from Powergrid on execution of AMC has been received and a special meeting would be convened to deliberate the matter in detail with PGCIL and NERLDC.

Subsequently, a special meeting on implementation of the NER SCADA/EMS ULDC-III project under PSDF funding was held on 3rd July 2026 wherein the following decisions have been taken:

1. POWERGRID shall share the detailed BoQ (for all the states and NERLDC) for comparison with the earlier BoQ by NERLDC.
 2. Each state shall nominate a nodal officer for the implementation of SCADA/EMS phase-III.
 3. The detailed DPR shall be shared by POWERGRID to PSDF by August-2026.
- The MoM of the special meeting is attached as **Annexure-B 2.6**.

Members may discuss.

AGENDA FROM NERLDC

2.7. Status of Annual Maintenance Contract (AMC) of SCADA/EMS systems of NER states: NERLDC

In 32nd NETeST meeting held on 29th August 2025, Tripura and other NER states expressed concern about the exorbitant high price of AMC quoted by M/s GE Vernova for the existing SCADA system. It was decided to convene a special meeting with M/s GE Vernova to resolve the pending issues pertaining to AMC of SCADA project of NER states.

In view of above a NERPC special meeting on Extension of Comprehensive-AMC of SCADA/EMS system of NER states held on 06th November 2026, where price negotiation was done with M/s GE Vernova and revised offer price was finalized. It was also discussed in the meeting that NER states will finalize and sign their respective AMC contracts with M/s GE Vernova within 3 months from the issuance of the Minutes of the Special Meeting. (Minutes of the Special Meeting is attached as **Annexure B 2.7**)

The status of expiry of the AMC for each SLDC is tabulated below:

Sl. No.	Control Centre	Original AMC Expiry (7+2)	Extended AMC Expiry Date	Status as per 34th NETeST Meeting
1.	Arunachal Pradesh	31-03-2027	Not required at present	
2.	Assam	11-11-2024	11-11-2026	
3.	Manipur	07-11-2025	Under awarding stage	
4.	Meghalaya	31-03-2025	31-03-2027	
5.	Mizoram	30-04-2026	Under awarding stage	

6.	Nagaland	31-03-2027	Not required at present	
7.	Tripura	31-03-2025	Under awarding stage	

As upcoming SCADA/EMS Project under ULDC-III will take another 2-3 years in implementation as per given timeline given by ULDC-POWERGRID, states are requested to extend the AMC accordingly.

All states may update the AMC status.

2.8. Status Update on URTDSM Phase-II Project (ISTS Portion) and AMC Extension for URTDSM Phase-I: NERLDC

The URTDSM Phase-II Project (ISTS Portion) was approved during the 30th NERPC/TCC meeting held on 13th–14th November 2025 at Srinagar, with an approved cost-sharing mechanism of 100% RTM (Regulated Tariff Mechanism) route under a 70:30 Debt-Equity ratio, to be implemented by POWERGRID. In view of this approval, POWERGRID-ULDC is requested to present a comprehensive status update on the project, covering key aspects such as progress on award of contracts/tenders, current implementation timeline, etc.

Also, the Annual Maintenance Contract (AMC) for URTDSM Phase-I is scheduled to expire in December 2026 and given that the implementation of URTDSM Phase-II is expected to take considerable time before commissioning, there is a critical need to ensure uninterrupted maintenance support for the existing Phase-I infrastructure in the interim period. POWERGRID-ULDC is accordingly requested to apprise the committee on the action taken/proposed towards extension of the AMC for URTDSM Phase-I, including the current status of the extension process, proposed extension period, associated cost implications, and expected timeline for finalization, so as to avoid any maintenance gap for the operational Phase-I system.

Powergrid may update.

2.9. Status Update on VoIP Upgradation Package in NER: NERLDC

The VoIP Upgradation Package for the North Eastern Region (NER) was awarded by POWERGRID to M/s Orange on 23rd December 2025, with a stipulated implementation timeline of fourteen (14) months. Pursuant to the award, the kick-off meeting for the project was held on 19th January 2026, followed by completion of the site survey of NERLDC premises by February 2026.

Further as informed by POWERGRID in the 33rd NETeST meeting, M/s Orange has completed surveys at the Main and Backup NERLDC and the main SLDC control centres excluding Assam Main Control centre and survey is also completed at Nagaland and Meghalaya back up SLDC. In light of the progress made so far, POWERGRID-ULDC is requested to present a detailed status update on the project, including progress against the implementation schedule, current stage of equipment procurement/installation, any deviations from the original timeline, and the anticipated date of completion.

Powergrid may update.

2.10. Concerning telemetry situation of SCADA data of Nagaland state owned substations: NERLDC

SCADA data (both analog and digital) from majority of Nagaland owned substations is presently not reporting at NERLDC. Despite regular follow-ups and weekly updates through Weekly Telemetry Availability Report and CERC Monthly Non-Availability Letter for telemetry status by the NERLDC SCADA team, the issue still persists.

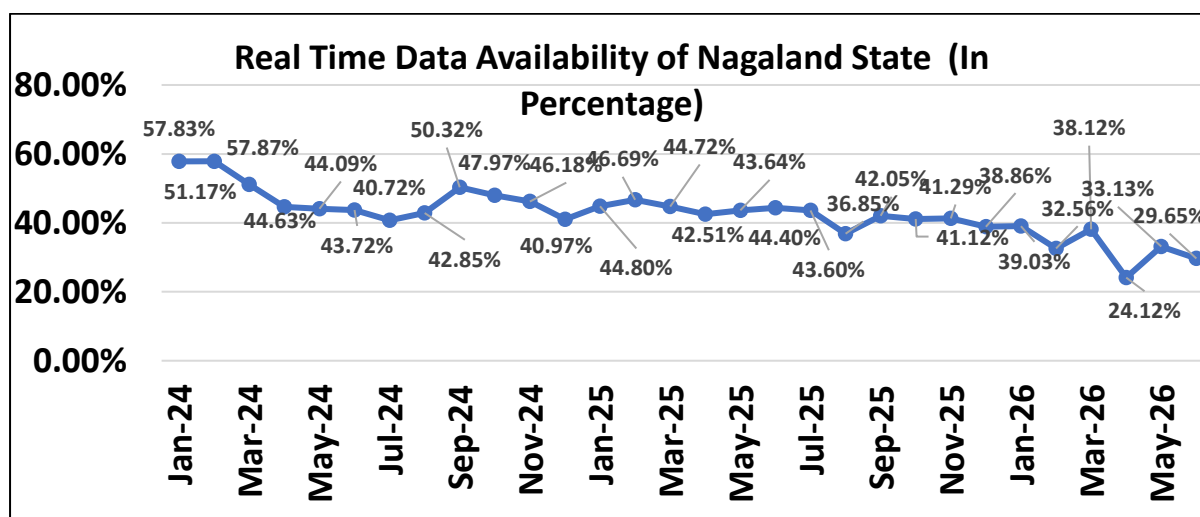
As per the 30th NeTEST MoM issued on 28th January 2025, a target of 70% real-time data availability was set for Arunachal Pradesh to be achieved by March 2025. However, the actual real-time data availability has shown a declining trend instead of improvement.

The picture as shown below shows the real-time data availability for Nagaland state since January 2024. There is a clear declining trend in real-time SCADA data availability as data availability drops from

around ~58% (Jan–Feb 2024) to ~29.65% (June 2026) indicating a significant deterioration (~28% drop) over time.

In terms of communication related projects, NERPSIP-Nagaland is on verge of completion and Nagaland has received sanction of grant from PSDF for “Establishment for Reliable Communication System for 66kV and above network” in March 2025. Despite the major projects under implementation the improvement in telemetry is yet to be realised.

Multiple communications have been made to SLDC Nagaland on 18th March 2026, 30th March 2026, 20th April 2026, 10th June 2026, and 01st July 2026, (Attached as **Annexure-B 2.10**). However, response is yet to be received.



SLDC Nagaland may update.

2.11. Concerning telemetry situation of SCADA data of Arunachal Pradesh state owned substations: NERLDC

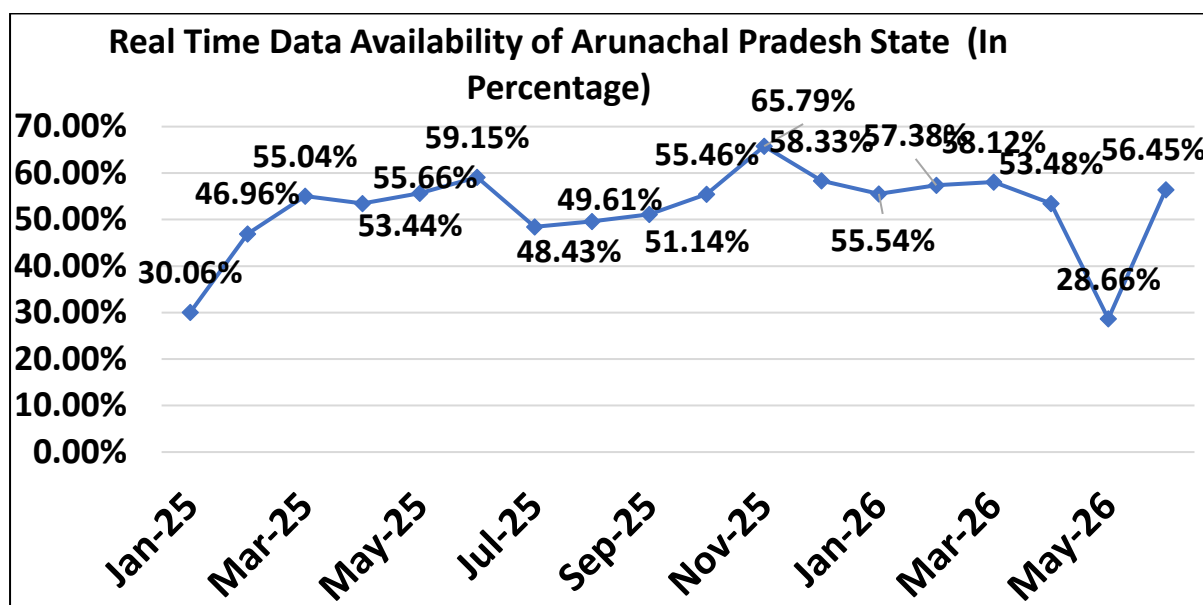
SCADA data (both analog and digital) from majority of Arunachal Pradesh owned substations is presently not reporting at NERLDC. Despite regular follow-ups and weekly updates through Weekly Telemetry Availability Report and CERC Monthly Non-Availability Letter for telemetry status by the NERLDC SCADA team, the issue still persists.

As per the 30th NeTEST MoM issued on 28th January 2025, a target of 70% real-time data availability was set for Arunachal Pradesh to be achieved by

March 2025. However, the actual real-time data availability has shown a declining trend instead of improvement.

The picture as shown below shows the real-time data availability for Arunachal Pradesh state since January 2025 till June 2026. Despite the major communication infrastructure improvement via CTDS-Arunachal Pradesh scheme, the significant improvement in availability of SCADA data from state owned substations is yet to be realized.

Multiple communications have been made to SLDC Arunachal Pradesh on 18th March 2026, 02nd April 2026, 20th April 2026, 01st June 2026, 01st July 2026 (Attached as **Annexure-B 2.11**), however no response has been received from their end.



SLDC Arunachal Pradesh may update.

2.12. Status of OPGW and FOTE approved in various meeting: NERLDC

Following communication projects have been approved in various meetings, POWERGRID may update the same:

Sl. No.	Project/Link N	Award Date/Meeting approved	Implementing Agency & Time	Status as per 9th CPM	Status as per 34th NETeST Meeting
1	Additional FOTE at Loktak	20.12.2023	POWERGRID & 06 months	Commissioning by May '26	
2	Additional FOTE at Bongaigoan	20.12.2023	POWERGRID & 06 months	Commissioning by May '26	
3	Additional FOTE for AGC Locations: Subansiri	02.09.2024	POWERGRID & 06 months	Supply completed	
4	Additional FOTE for AGC Locations: Doyang	02.09.2024	POWERGRID & 06 months	Supply Completed. Commissioning Target: June'26	
5	OPGW replacement on 132 kV NEHU – Khliehriat Ckt-1	30.01.2025	POWERGRID & 18 Months	Material under production, being implemented under Bulk OPGW package. Target: Dec'26.	
6	UGFO from Tower-25 to NERLDC Shillong over 132 kV Mawlyndep – NEHU line.	30.01.2025	POWERGRID & 18 Months	Material under production, being implemented under Bulk OPGW package. Target: Dec'26.	
7	OPGW Replacement of 132 kV Kahilipara – Umtru – Umiam Stg.III	30.01.2025	POWERGRID & 18 Months	Material under production, being implemented under Bulk	

	– Umiam Stg. I - NEHU			OPGW package. Target: Dec'26.	
8	OPGW replacement on 132 kV Sarusajai - Umtru	30.01.2025	POWERGRID & 18 Months	Material under production, being implemented under Bulk OPGW package. Target: Dec'26.	
9	2x24F UGFO from NERLDC Guwahati to Gantry of Kahilipara	30.01.2025	POWERGRID & 18 Months	Material under production, being implemented under Bulk OPGW package. Target: Dec'26.	
10	OPGW and associated equipment on 132 kV Dharmanagar – Dullavcherra -Hialakandi line	05.05.2025	POWERGRID & 24 Months	Material under production, being implemented under Bulk OPGW package. Target: Dec'26.	
11	400 kV PK Bari (Indigrid) – Silchar (PG)	30th NERPC/TCC meeting dated & 11.03.2026	POWERGRID & 30 Months	-----	
12	220 kV Kathalguri – Mariani (PG)	30th NERPC/TCC meeting dated & 11.03.2026	POWERGRID & 30 Months	-----	

POWERGRID may update the status.

2.13. Establishing second communication channels of AGC from Plants (under operation) AGC to NLDC Delhi-NERLDC: NERLDC

In view of maintaining high availability of communication connectivity between AGC Plants (under operation) and NLDC Delhi; a second communication link is configured. The details of second communication link were shared to Plants vide email dated: 20th May 2026, 07th April 2026 and 18th March 2026. However, utilisation of second communication link is yet to be started by plants.

The matter was referred from 239th OCC to NETeST forum and the updated status is as follows:

Sl. No	Name of Plant	Second communication link status	Utilisation Status
1	NTPC Bongaigaon	Link tested.	Completed.
2	Kopili	Link configured. Testing is Pending.	Subsequent to link testing, NEEPCO is requested to engage OEM of AGC to connect the AGC RTU/Firewall with second link. To be completed within one week in coordination with NERLDC
3	Doyang	Link tested.	Completed.
4	Loktak	Link configured. Testing is pending	Completed.
5	Subansiri	Link configured. Testing is pending	Subsequent to link testing, NHPC is requested to engage OEM of AGC to connect the AGC RTU/Firewall with second link. Closed loop testing pending, to be completed in a week.

Members may update the status.

2.14. Review of award of AMC for SAMAST System NER States: NERLDC

As SAMAST system is connected with SCADA/EMS system of states, therefore regular maintenance is required to overcome operational challenges and avoid cyber security concerns. In view of same, a special meeting was held on 15th October 2025 to discuss the consolidated scope of work (both hardware and software part) for SAMAST AMC for all NER states.

Thereafter, NERPC conducted a Special meeting was held on 30th January 2026 for price negotiation in which M/s PwC and M/s Infotek has quoted prices for all seven modules of SAMSAST software for a period of 3+2 years as tabulated below:

Sl No.	Year	Cost each year (exclusive of GST)	Cost each year (inclusive of GST at prevailing rate)
1	Year-1	Rs. 65,00,000/annum/state	Rs. 76,70,000/annum/state
2	Year-2	Rs. 65,00,000/annum/state	Rs. 76,70,000/annum/state
3	Year-3	Rs. 65,00,000/annum/state	Rs. 76,70,000/annum/state
4	Year-4	Rs. 68,25,000/annum/state	Rs. 80,53,500/annum/state
5	Year-5	Rs. 68,25,000/annum/state	Rs. 80,53,500/annum/state

M/s Infotek has also given the final negotiated price for hardware part of SAMSAT system for 3+2 years which is tabulated below as:

Sl No.	Year	Cost each year (exclusive of GST)	Cost each year (inclusive of GST at prevailing rate)
1	Year-1	Rs. 35,30,800/annum/state	Rs. 29,00,300/annum/state

2	Year-2	Rs. 35,30,800/annum/state	Rs. 29,00,300/annum/state
3	Year-3	Rs. 35,30,800/annum/state	Rs. 29,00,300/annum/state
4	Year-4	Rs. 37,07,340/annum/state	Rs. 30,45,315/annum/state
5	Year-5	Rs. 38,92,707/annum/state	Rs. 31,97,581/annum/state

All states were suggested to issue LoA to M/s PWC & M/s Infotek for the hardware part of SAMAST system for NER states at the earliest.

All states may update the status.

2.15. Review of Status of ADMS System in NER States: NERLDC

A meeting was held on 05th May 2026 to discuss ADMS AMC related issues with all NER states. As ADMS is critical asset for managing demand during low-frequency and overdrawal condition of the grid and the system is also connected with SCADA/EMS system. Therefore, ADMS in a healthy operational state and AMC of the system is essential.

In the meeting, NER states highlighted cyber security/IOC issues being faced by them and other operational challenges. The minutes of the meeting are attached as **Annexure B 2.15**. As ADMS system is connected with SCADA/EMS system at SLDCs, it is very critical to ensure proper maintenance and operationalization of ADMS system.

Forum has advised all NER states to ensure that AMC is kept in place to avoid operational challenges.

Sl. No.	Control Centre	Original AMC Expiry (7+2)	Status as per 34th NETeST Meeting
1.	Arunachal Pradesh	31-03-2028	

2.	Assam	31-03-2027	
3.	Manipur	31-03-2025 (Expired)	
4.	Meghalaya	30-11-2026	
5.	Mizoram	31-08-2027	
6.	Nagaland	Expired. (Original AMC date not available)	
7.	Tripura	System not under operation. Expiry date not available.	

States may update the AMC status.

AGENDA FROM POWERGRID

2.16. Regarding replacement of SDH and PDH installed under Microwave vacation Package: PGCIL

SDH (STM-4) and PDH had been installed and commissioned around 2019 under Central -Sector and Assam State Sector in Microwave Vacation Package. As the equipment are nearing its end of life of 07 years as per the useful limit of communication system and considering the increase in network congestion, the same may be considered for replacement with suitable higher order muxes. The list of equipment is attached as **Annexure B 2.16.**

2.17. Incorporation of (2X20) kVA UPS for load requirement of upcoming VOIP and existing UNMS system: PGCIL

The agenda is for consideration of procurement of (2X20) kVA UPS for catering to the load requirements of upcoming VOIP and UNMS system. The load calculations and BOQ attached as **Annexure B 2.17.**

AGENDA FROM CTU

2.18. Capacity Upgradation to STM-64 for ER-NER Inter regional connectivity in NER region: CTUIL

The need to enhance the existing communication infrastructure is increasing day by day to handle the surge in bandwidth demand driven by higher power flows, expanded SCADA operations, wide-area monitoring systems, and real-time protection signalling. With the integration of renewable energy sources, growing inter-regional transfers and the need for enhanced grid reliability, the communication backbone must evolve to support faster, more resilient and higher-capacity data transmission. Day by day there is increasing trend of services and applications, and hence more channels are getting connected to the ISTS communication network. There is also increase in redundancy communication links such as dual redundancy for RTU, ICCP link between RLDC and NLDC, International ICCP links, redundancy in AGC, upcoming AMR scheme all over India, etc.

NERLDC vide letter Ref No.: NERLDC/System Logistics/OT/Communication/8477 dtd 20.01.26, stated that upcoming Backup ERLDC, Backup NRLDC is coming up at NER (Guwahati), hence it is quite necessary to upgrade the capacity of inter-regional links in NER including Main & Backup NERLDC.

Transitioning to STM-64 will not only provide the necessary bandwidth headroom but also ensure scalability for future requirements, reduce latency in critical grid operations and strengthen the overall reliability of the ISTS communication network.

This Agenda has been deliberated in 9th NER CPM dtd 16.03.2026(Minutes attached as **Annexure-B 2.18(i)**) where in NERLDC provided the below mentioned path to form STM-64 ring link in NER including NERLDC & Backup NERLDC.

400kV Bongaigaon(PG) - 220kV Salakati - 220kV BTPS(Assam) - 220kV Agia

(Assam) - 220kV Boko (Assam) - 400kV Azara (Assam) - 220kV Sarusujai (Assam)-132kV Kahilipara (Assam) - NERLDC Guwahati- 132kV Umtru (Meghalaya) – 132kV Umiam III (Meghalaya) - 132kV Umiam I (Meghalaya) – 132kV Umiam (Meghalaya) - 132kV NEHU (Meghalaya) – NERLDC Shillong – 132kV Neigrihms (Meghalaya) – 132kV Khleihriat (Meghalaya) – 132kV Khleihriat(PG) – 132kV Khandong (NEEPCO) – 220kV Kopili (NEEPCO) – 400kV Misa (PG) – 400kV Balipara (PG) – 400kV Bongaigaon (PG) to form a ring considering NERLDC.

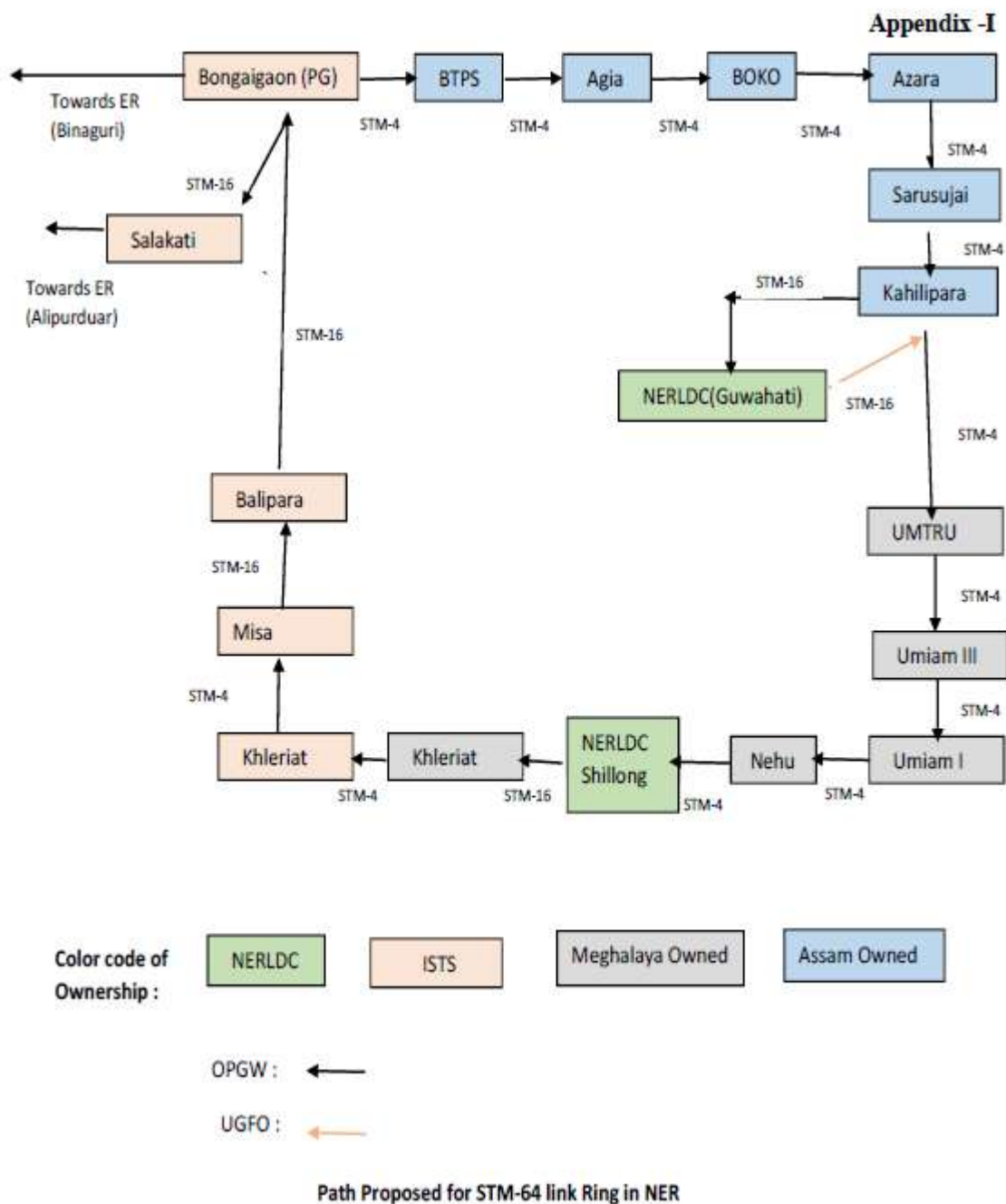
CTUIL studied the path for a new parallel STM-64 ring link formation from UNMS (UNMS Snapshots attached at **Annexure-B 2.18(ii)**). Further, a special meeting was held between CTUIL and POWERGRID on dt. 08.04.2026 for STM-64 ring link formation.

Based on the above deliberations and inputs, below mentioned path is suggested for STM-64 link in NER till NERLDC & Backup NERLDC:

Path for STM-64:

ER - 400kV Bongaigaon(PG) - 220kV BTPS(Assam) - 220kV Agia (Assam) - 220kV Boko (Assam) - 400kV Azara (Assam) - 220kV Sarusujai (Assam) - 132kV Kahilipara (Assam) - NERLDC Guwahati- 132kV Kahilipara (Assam) - 132kV Umtru (Meghalaya) – 132kV Umiam III (Meghalaya) - 132kV Umiam I (Meghalaya) - 132kV NEHU (Meghalaya) – NERLDC Shillong – 132kV Khleihriat (Meghalaya) – 132kV Khleihriat(PG) – 400kV Misa (PG) – 400kV Balipara (PG) – 400kV Bongaigaon (PG)- 220kV Salakati- ER to form a ring considering NERLDC.

Pictorial representation of the proposed STM-64 path is shown below in the Appendix -I.



- Further, POWERGRID suggested considering Two Nos. STM-64 equipment at Kahilapara(Assam) as backup NERLDC is connected radially to 132kV Kahilapara(Assam) via UGFO cable and further stated that redundant UGFO path is also under implementation between Kahilapara (Assam) Node to Backup NERLDC.
- Similarly, Two Nos. STM-64 equipment is required at Bongaigaon (PG) S/s

as Alipurduar-Salakati link is connected to the rest of NER via Bongaigaon (PG) Only.

- Considering the criticality of inter -regional ER-NER link and redundancy and NLDC suggestion vide letter dtd 26.06.26 (Attached as **Annexure-B 2.18(iii)**) that the infrastructure shall be reviewed and strengthened for path, equipment, port, power-supply and last-mile diversity. Main and standby links should not share avoidable common dependencies, proposed STM-64 link will be established in separate fibre pair through STM-64 SDH equipment in addition to the existing link.

For complete upgradation(STM 64 capacity) from main RLDC (ERLDC,NRLDC), NLDC to back up RLDC(ERLDC,NRLDC) at NERLDC Guwahati similar links need to be identified in ER and NR region.

Accordingly, 20 Nos. STM-64 FOTE are required for STM-64 link formation including NERLDC & Backup NERLDC.

Wherever end stations belong to state constituents power supply and space shall be provided by the states for installation of STM-64 FOTE.

POWERGRID/STUs may confirm the spare fibre availability, length of the links and repeater requirement on the suggested STM-64 OPGW links mentioned below.

POWERGRID:

Sl.No	Link Name	Spare Fibre availability	Length
1	400kV Bongaigaon(PG) - kV BTPS(Assam)		
2	Khleriat -Misa		
3	Misa-Balipara		
4	Balipara-Bongaigaon		
5	Bongaigaon-Salakati		

Assam:

Sl.No	Link Name	Spare Fibre availability	Length
1	BTPS -Agia		
2	Agia- Boko		
3	Boko- Azara		
4	Azara -Sarusajai		
5	Sarusajai- kahilipara		
6	Kahilipara- B/U NERLDC		
7	B/U NERLDC kahilipara(UGFO)		
8	Kahilipara- Umtru		

Meghalaya:

Sl.No	Link Name	Spare availability	Fibre	Length
1	Umtru -Umiam III			
2	Umiam III -Umiam I			
3	Umiam I -Nehu			
4	Nehu - NERLDC Shillong			
5	NERLDC Shillong - Khleriat			
6	Khleriat (Meghalaya) - Khleriat PG			

Further as per MPLS JC report

The Rollover from SDH to MPLS of the existing Main & Backup control centers (SLDCs & RLDC) alongwith their existing ISTS stations (RTM/TBCB) is suggested to be implemented first in a smaller region like NER which shall also require spare fibre pair and MPLS-TP Equipment as MPLS-TP shall run in parallel to SDH.

Present Status of MPLS-TP roll out:

Draft TS has been prepared by CTUIL and floated with OEMs/POWERGRID for suggestions/comments and received comments/suggested are incorporated. Technical specifications shall be circulated among MPLS JC

Members.

In the 16th NPC (Minutes attached as **Annexure-B 2.18(iv)**) it was decided that

Matter related to 'Make in India' compliances for FOTE (Fiber Optic Terminal Equipment) equipment shall be taken up by ET&I Division, CEA with MoP.

MII relaxation for MPLS-TP is under review of MoP.

In view of above members may deliberate and forum may suggest accordingly.

Members may deliberate.

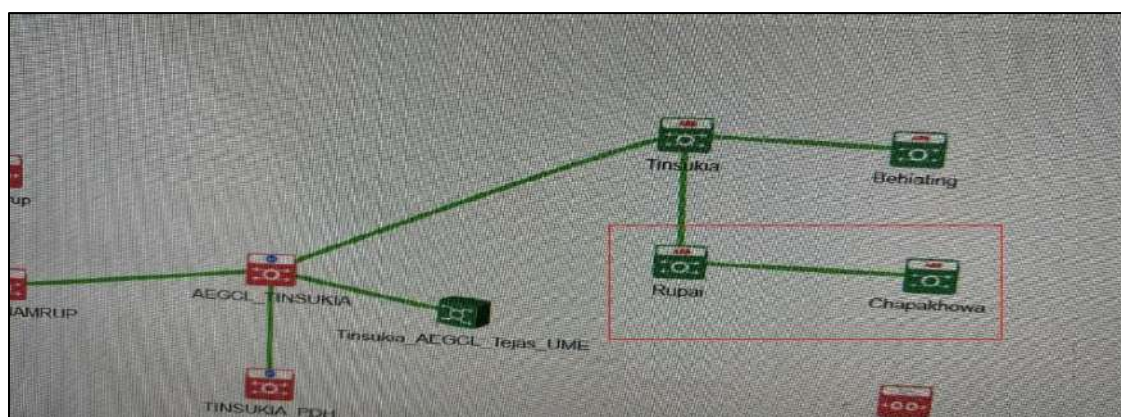
2.19. Discrepancies pertaining to Availability report generated from NER UNMS: CTUIL

Many instances of mismatches in owner names, link names, channel count (duplicity of channels) have been observed in the monthly availability report. NMT/ULDC may update the status of stitching channels and provide the timeline for completion as it is unable to identify the channels/channel count from availability report generated from UNMS.

Availability report being generated consists of the availability of Powergrid nodes only. NMT/ULDC is suggested to include all the ISTS nodes in availability report.

Owner/entity wise & channel wise availability report shall also be generated as per format approved in 16th NPC meeting dtd 04.07.25. Mismatch in Status of Links in U-NMS for ABB devices under NERPSIP-Assam.

The Mismatch in status of Rupai- Chapakhowa is reported by NERLDC as the OPGW connectivity of Chapakhowa with Rupai is down but still the node is showing up in the UNMS. The UNMS screenshot is attached for reference.



All nodes should be visible in UNMS (FIBCOM & ABB nodes not visible)

Further following TSP wise discrepancies are reported :

Indigrid: Several nodes have been partially integrated and are visible in the U-NMS system. However, these nodes are currently not communicating over the SNMP protocol, which is necessary for full operational integration and status monitoring within U-NMS. The support from Indigrid is required.

Aparva (KMTL): Integration remains pending due to the absence of a required gateway IP configuration, which is to be provided by the vendor ABB. This has caused long-standing de-lays in completing integration of critical nodes like New Kohima, Imphal, and Mariani. The support from Aparva (KMTL) is required.

Sterlite node: NMT/ULDC may provide the integration status of Tejas devices commissioned by Sterlite at 220 kV Nangalbibra and 400 kV Bongaigaon.

Tejas devices commissioned under ULDC and TBCB: Many Tejas nodes are recently commissioned under ULDC or TBCB schemes of PGCIL which are required to be integrated with UNMS without any delay as these nodes are being utilized and require continuous monitoring. Name of node are: Misa, Kopili, Khelieriat, Shillong-NERLDC, Guwahati-NERLDC, Subansiri HEP, BNC HVDC, Kathalguri, Namsai.

Fibcom devices commissioned under ULDC: Many Fibcom nodes are recently commissioned under ULDC which are required to be integrated with UNMS without any delay as these nodes are being utilized and require continuous monitoring. Name of node are: Kameng, Roing, Tezu, Namsai, Pasighat

NLDC vide letter dtd 26.06.26 (attached as Annexure- III) suggested that Inter-regional coordination for monitoring the end-to-end communication of the plants has to be urgently improved at all regional ULDCs and appropriate visibility may also be extended to NLDC for common situational awareness.

These issues have been deliberated in various meetings i.e 9th NER CPM dtd 16.03.26, 33rd NETeST meeting dtd 24.04.26, separate meeting between ULDC/NMT, POWERGRID GA&C and CTUIL regarding issues pertaining to UNMS dtd 28.04.2026. It is requested that NMT/ULDC may update the progress of the rectification of the above issues and provide the timeline for rectification.

Members may deliberate.

AGENDA FROM ASSAM

2.20. Submission of techno commercial offer for AMC of SCADA/EMS Phase-II by M/s GE: Assam

The existing SCADA/EMS AMC, which was extended for a period of two years, is going to expire on 11.11.2026. The upgradation of the existing system is presently under process and is expected to take at least another two years for completion.

In view of the above, on 04.05.2026 M/S GE Vernova T&D Ind. Ltd. was requested to submit a techno-commercial offer for extension of the AMC for a period of two years, with a provision for further extension by one additional

year, if required. The offer may accordingly be submitted for a total duration of three years. Initially, services shall be availed for two years, and the third year may be exercised based on requirement.

M/S GE Vernova T&D Ind. Ltd. was requested to submit the offer at multiple instances. However, M/S GE Vernova T&D Ind. Ltd. is yet to submit the offer. The matter has been placed before the RPC in the special online meeting held on 03.06.2026.

The offer is required for timely formalization and execution of the contract.

Members may discuss.

AGENDA FROM PwC

2.21. State wise status of SAMAST: PwC

PwC has prepared a presentation showing the state wise status of SAMAST in NER attached as **Annexure-B 2.21**

Members may note.

3. PART-C: ITEMS FOR UPDATE/FOLLOW-UP

The follow up items are attached at **Annexure 3.1.**

Members may update.

REGIONAL COMMUNICATION AUDIT REPORT			
General Information:			
1	Substation Name		
2	SS Voltage level		
3	Date of commissioning of the substation	XX.XX.XXXX	
4	Region & State / Auditee	/	
5	Audit Date		
6	Name of the Utility which owns the SS		
Details of Audit Team Members :			
SL	Name	Designation	Organization
1			
2			
3			
4			
Attached Documents, if any			
SL	Name of the document	Original / Signed / Copy	
1			
2			
3			
4			
5			
6			
7			

8		
9		
10		
11		
12		
13		
14		
15		
16		
17		

Communication Channels and Equipments Audit Format

(A) List of channels in usage for data (64 kbps, 104, PMU, VC, 101) / Voice / Protection circuits / others:

Sl	Description (64 kbps, 104, PMU, VC, 101) / Voice / Protection circuits / Others)	Source	Destination	Channel Routing	Ownership details of terminal equipment / Links
1					
2					
3					
4					
5					
6					
7					
8					

(B) List of terminal communication equipments:

Sl	Name of Station	Equipment Type (SDH / PDH / Radio / VSAT / EPABX)	Make / Model	Ownership
1				
2				
3				
4				
5				
6				
7				
8				

(C) Communication System Details:

I. SDH Equipment

(1) Card Details:

Slot No	IP Address & Path / Direction Name	Card Details	Place a ✓ mark if on usage, else Write as "Spare"	Whether Card is healthy / Faulty ? (H / F)	Cards Redundancy available (Yes / No)	Power Supply Card / Optical Card (Yes / No)	MSP configured? (Yes / No)	Action Plan for faulty cards	Other Information, if any
1									
2									
3									
And so on									

(2) Whether equipment is time synchronized : Yes / No

If Yes, how is it being done?

(3) Failures during last Fin. year / since last Audit :

Particulars	Number of failures of Card / Power Supply	Reason for failures	Measures taken for rectification
Card		(i) (ii) (iii)	(i) (ii) (iii)
Power Supply		(i) (ii) (iii)	(i) (ii) (iii)

(4) Configuration of the Node:

Name of Equipment	Number of Nodes	Number of directions	Name of Directions	Number of links down, with details	Details of corrective action, if any, taken
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--	--	--	--	--	--

(5) Preventive maintenance schedule and its compliance:

Date of Last Preventive maintenance	Maintenance carried out as per schedule? (Yes / No)	Whether all the defects have been attended? (Yes / No) Give details

II. PDH Equipment

(1) Card Details :

Slot No	IP Address	Card Details	Place a ✓ mark if on usage, else Write as "Spare"	Whether Card is healthy / Faulty ? (H / F)	Cards Redundancy available (Yes / No)	Power Supply Card / Optical Card (Yes / No)	MSP configured? (Yes / No)	Action Plan for faulty cards	Other Information, if any
1									
2									
3									
And so on									

(2) Whether equipment is time synchronized : Yes / No

If Yes, how is it being done?

(3) Failures during last Fin. year / since last Audit :

Particulars	Number of failures of Card / Power Supply	Reason for failures	Measures taken for rectification
Card		(i) (ii)	(i) (ii)

		(iii)	(iii)
Power Supply		(i) (ii) (iii)	(i) (ii) (iii)

(4) Configuration of the Node:

Name of Equipment	Number of Nodes	Number of directions	Name of Directions	Number of links down, with details	Details of corrective action, if any, taken

(5) Preventive maintenance schedule and its compliance:

Date of Last Preventive maintenance	Maintenance carried out as per schedule? (Yes / No)	Whether all the defects have been attended? (Yes / No) Give details

III. OPGW / Optical Fibre Details

Number of Directions	Name of Direction	No. of Pairs	No. of Fibers used	No. of spare & healthy Fibers	Unarmoured cable laid within PVC/Hume duct pipe?	Fibre Count in OPGW? Whether matching with Approach cable to FODP?	Overall Optical Fibre Path Attenuation (dB/km)	Power Received	Conformation to Compliance of CEA Standards

IV. Healthiness of Auxiliary System:

(1) Details of 2 independent Power Sources :

[illegible]

(2) Conformation to Compliance of CEA Standards :

V. Healthiness of Earthing of each equipment:

Sl	Equipment	Status on Healthiness of Earthing

VI. Details of Voice communication available between Sub-station and Control Centre:

Sl	Voice communication (Sub-station - Control Centre)	Status on Healthiness of Voice communication	Healthiness of air-conditioning of communication room as per OEM recommendation

VII. PLCC Details:

[illegible]

VIII. Radio Communication Details:

Number of Equipments	Make and Model	Status on Healthiness	Last preventive maintenance		Details of defects, if any, attended	Status of Availability of Spares	Conformation to Compliance of CEA Standards
			Schedule	Actual			

IX. Data Retention : (i) Earliest Date of availability of data: _____
(ii) Historical data availability : _____ days.

X. Control Command Delay : (i) Time delay in seconds from Control Centre : _____ Seconds
for SCADA
(ii) Time delay in seconds from Control Centre : _____ Seconds
for WAMS

XI. Wide Band Network : (i) Absolute channel delay in protection applications : _____ ms
(ii) Channel delay asymmetry in protection applications : _____ ms
(iii) Switching Time delay to alternate path/route during failure of one path : _____ ms

XII. Any other information :

**Audit Team Member
NERPC**

**Audit Team Member
NERLDC**

**Audit Team Member
PGCIL (Internal / External)**

**Audit Team Member
State (Internal / External)**

Communication Audit Checklist (Annexure-II)

S.No	Check list points	Expected	Actual	Reference
1	Whether OPGW is terminated properly. Down lead shall be fixed property in sufficient locations. Metallic part shall be connected to earth mat riser.	Yes		
2	Distinct approach cable shall be laid 1 Protection & Communication 2 Fibers for commercial applications Item no 1 cable shall be terminated in communication room FODP One number FODP panel shall be available in communication room			
3	Fiber Identification shall be done in FODP properly			
4	Whether End to end tests were carried out during installation and records are available (both Optical Power Source/receiver testand OTDR Test results			
5	Whether patch chords 1 Cross labelled (source/ receive) 2 Tx – Rx Marking 3 Mechanical protection is provided for patch chords laid between panels			
6	Whether separate room for communication is available with following:- 1 Air conditioning with standby A/C Unit 2 AC Distribution board with ELCB 3 Single point earthing bar which shall be connected to substation Earth mat			
7	Two sets of 48 V (Positive Earthed) DC System shall be available with 1 Common DC Distribution board/ Panels with incoming MCB, coupler MCB , out doing MCB setc 2. Minimum 200 Ah (2 sets of battery) VRLA batteries are preferred to keep chargers and battery in communication room. 3. Battery Charger shall be Thyristorised/SMPS			
8	Battery Charger alarms /measurements shall be made available to SAS (if available) It can be achieved through MOD bus or connecting analogue/ digital signals to Common BCU of SAS. If such system is not available major			

Communication Audit Checklist (Annexure-II)

	alarms shall b alarmed in common substation annunciator			
9	2 nos of substation Data (From RTU or SAS Gateway)shall route in different roots to Main and Standby Load Dispatch centres			
10	Kindly assure proper protection is available for AC Distribution (ELCB, MCB, Backup fuse),			
11	Aux Transformer neutral Earthing shall be connected to Stations earth mat (Aux Transformers shall be installed in yard earth mat area only)			
12	Whether DG sets with AMF panels are provided for Aux AC Supply			
13	Whether 2 nos 11 kV (or 33kV) supplies are available for Each station aux Transformer			

**Final Standard Operating Procedure (SoP) for Communication System
Outage Planning**

1. As per the following CEA and CERC Regulations, the Communication Outage for the Region shall be carried out by RPC Secretariat:

- a) Regulation 7.3 of Central Electricity Regulatory Commission (Communication System for inter-State transmission of electricity) Regulations, 2017 stipulates as below:

Quote:

7.3 Role of National Power Committee (NPC) and Regional Power Committee (RPC):

-
- (iv) The RPC Secretariat shall be responsible for outage planning for communication system in its region. RPC Secretariat shall process outage planning such that uninterrupted communication system is ensured.*
-

Unquote

- b) Regulation 10 Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020 notified on 27.02.2020 envisages as below:

Quote:

10. Outage Planning: Monthly outage shall be planned and got approved by the owner of communication equipment in the concerned regional power committee, as per detailed procedure finalized by the respective regional power committee.

Unquote

2. A Communication System Outage Planning Sub-Group/ TeST Sub Committee shall be formed in each region constituting the members from all the entities connected to ISTS including all CGS, ISGS, REGs/SPPDs/SPDs, STUs, SLDCs etc., of the respective Region, RLDC/Grid-India, PGCIL, CTUIL, Private Transmission licensees in respective region & RPC secretariat. The sub-group/ Sub Committee may co-opt any other member from any organization for facilitating the activities of the sub-group/ Sub Committee.
3. Communication System Outage Planning will be limited to the following systems:
- (i) ISTS Communication System including ISGS
 - (ii) Intra-state Communication System being utilized for ISTS Communication
 - (iii) ICCP links between Main & Backup RLDCs, Main & Backup SLDCs & Main & Backup NLDCs.
 - (iv) Inter-regional AGC links.

- (v) Any other system agreed by the sub-group.
4. Communication Equipment/link within the scope of the Procedure would include :
- (i) Optic Fibre links
 - (ii) Any other link being used for ISTS communication
 - (iii) ICCP links between Main & Backup RLDCs, Main & Backup SLDCs & Main & Backup NLDC
 - (iv) VC links between LDCs
 - (v) Inter-regional AGC links
 - (vi) SPS Links
 - (vii) Tele-Protection
 - (viii) AMR
 - (ix) PMU
 - (x) SDH & PDH
 - (xi) DCPC
 - (xii) RTU & its CMU cards
 - (xiii) DTPCs
 - (xiv) Battery Banks and Charging Equipment
 - (xv) EPABX
 - (xvi) Any other equipment/link agreed by the sub-group
5. A Web Portal named as “Communication System Outage Planning Portal” shall be developed by respective RLDCs. Log-in credentials shall be provided to all the ISTS connected entities/concerned entities.
6. Entities/Users/Owners shall add their communication links and the equipment to the Web Portal as soon as they are commissioned. The same has to be furnished to RPC Secretariat /RLDCs.
7. Entities/Users/Owners of the communication equipment shall upload the outage proposals of communication links and the equipment (in the prescribed format only) to be availed during subsequent month by 7th/8th of every month in the Web Portal.
8. RPC Secretariat consolidates the list of outage proposals received from various Entities/Users/Owners of the communication links and equipment by downloading from the Web portal and circulate the same among all the respective region entities by 15th of every month. Communication outages affecting other regions would be coordinated by respective RLDC through NLDC.
9. Communication System Outage Planning (CSOP) meeting shall be conducted during the third week of every month normally (preferably through VC) to discuss and approve the proposed outages of communication links and equipment.
10. The approved outages of Communication links and equipment in the CSOP meeting shall be published in the RPC website and respective RPCs Communication Outage Portal within 3 days from the date of CSOP meeting.

11. Outage of the approved communication links and equipment shall be availed by the respective owner /entities after confirming the same with RLDC on D-3 basis.
12. In case of any emergency outage requirement of communication links and equipment, Entities/Users/Owners may directly apply to respective RLDC with intimation to respective RPCs on D-2 basis. Confirmation of approval/rejection will be provided on D-1 basis by RLDCs in consultation with respective RPCs considering 24hrs processing window.
13. Entities/Users/Owners shall take the code from the respective RLDC before availing the planned outage of the communication links & equipment and before restoration of the same.
14. Entities/Users/Owners of the communication links and equipment shall submit the deviation report for the approved outages (approved dates & approved period) availed during the previous month and the report on planned / forced / other outage of communication links / equipment by 10th of the month to RPC Secretariat as per the format at **Annexure-I** .
15. In the monthly CSOP meetings, communication links and equipment whose outage duration (Planned / Forced / Others) more than 48 hours for the last 12 months of rolling period shall be deliberated for the measures to be taken in future for the better outage management. The date deviations and non-availing the outages that were approved in the previous CSOP meetings shall also be deliberated in the CSOP meetings.

Outage Deviation Report : List of outages of Communication Equipment availed / deviated during the month of June, 2021

Dated : 00:00

B Details of Communication Equipment availed :

[illegible]

List of Important FOTE as per requirement of NERLDC

Sl. No.	Station/SLDC/RLDC Name	Location-Owner	FOTE-OEM	OWNERSHIP	CONNECTED TOWARDS
1	Bongaigaon	PGCIL	ECI	PG	BONGAIGOAN (AS)
					SALAKATI
					NTPC-BgTPP
			FIBCOM	PG	SALAKATI
					RANGIA
2	BTPS	AGECL	ECI	AEGCL	Bongaigaon
					AGIA
3	Agia	AGECL	ECI	AEGCL	BTPS
					Boko
4	Boko	AGECL	ECI	AEGCL	Mirza
					Agia
5	Mirza	AGECL	ECI	AEGCL	Sarusajai
					Boko
6	Sarusajai	AGECL	ECI	AEGCL	SLDC-Kahilipara
					Samaguri
					Mirza
7	SLDC-Kahilipara	AGECL	ECI	AEGCL	Sarusajai
					Umtru
					ABB-SLDC-Kahilipara
					Fibcom-SLDC-Kahilipara
					Fibcom
			ABB	AEGCL	Kamakhaya
					Sonabil
8	Guwahati NERLDC	NERLDC	FIBCOM	PGCIL	SLDC-Kahilipara
					Tejas
			9	Samaguri	AGECL
Mariani(AS)					
Sarusajai					
10	Mariani (AS)	AGECL	ECI	AGECL	Lakwa
					Mariani (PGCIL)
					Mariani -ABB
11	Maraini (PGCIL)	PGCIL	ECI	PGCIL	Mariani (AS)
					Mariani - Fibcom
					Mariani - ABB_KMTL
			Fibcom		Kathalguri
					Mokokchung-PG
			ABB		Mariani - Fibcom
					New Kohima
12	Kathalguri	NEEPCO	Fibcom	PGCIL	Mariani - PG
					Kathalguri_Tejas_PG
			Tejas		Mariani - Fibcom
13	MISA	PGCIL	ECI	PGCIL	Samaguri - ECI
					Misa- Fibcom
					Khleihriat-ECI
					Kopili-ECI
					Misa-ECI(ComTel)
					Dimapur(PG)-ECI
					Balipara-ECI
			Fibcom		Misa-EC
					Dimapur-Fibcom
					Misa-Tejas
					Balipara-Fibcom
			ECI		Misa-ECI
					Balipara-Fibcom
					Balipara-ABB

14	Balipara	PGCIL		PGCIL	Balipara(AEGCL)-ECI			
					Gohpur(AEGCL)-ECI			
			Fibcom		Balipara-ECI			
					Misa-Fibcom			
					BNC_HVDC-Fibcom			
					Sonabil(AEGCL)-ABB			
					Gohpur(AEGCL)-ABB			
15	BNC_HVDC	PGCIL	Fibcom	PGCIL	Balipara-Fibcom			
					AP_SLDC-Fibcom			
					Ranganadi-Fibcom			
					Rangia-Fibcom			
16	Ranganadi	NEEPCO	Fibcom	PGCIL	BNC_HVDC-Fibcom			
					Ziro-Fibcom			
			ECI		Ranganadi(PGCIL)-ECI			
					Ranganadi-Fibcom			
					Pare(PGCIL)-ECI			
					Gohpur(AEGCL)-ECI			
					Ranganadi-Fibcom			
17	Ziro	PGCIL	Fibcom	PGCIL	Ziro-Tejas			
					Ranganadi(PGCIL)-ECI			
18	Pare	NEEPCO	ECI	PGCIL	Pare_Sterlite-ECI			
			ECI		STERLITE	AP_SLDC-ECI		
			19	Nirjuli	PGCIL	ECI	PGCIL	North Lakhimpur_Sterlite-ECI
						ECI		STERLITE
Gohpur(AEGCL)-ECI								
20	SLDC_AP	AP					ECI	
						AP_SLDC-ECI		
						Fibcom	PARE_Sterlite-ECI	
			Nirjuli_PGCIL-ECI					
			North Lakhimpur_Sterlite-ECI					
			Nirjuli_PGCIL-ECI					
			Pare_PGCIL-ECI					
			Lekhi-ECI					
21	Gohpur_AEGCL	ASSAM	ECI	AEGCL	SLDC_AP-Fibcom			
					ABB	AP_SLDC-ECI		
			AP_SLDC-Tejas					
			BNC_HVDC-Fibcom					
			Ranganadi_ECI					
			Nirjuli_PGCIL-ECI					
			Balipara(PGCIL)_ECI					
22	Sonabil_AEGCL	ASSAM	ABB	AEGCL	Gohpur_NERPSIP			
					North Lakhimpur-ABB			
					Balipara-ABB			
					Tezpur-ABB			
23	Salakati	PGCIL	ECI	PGCIL	Kahilipara_SLDC-ABB			
			Fibcom		Bongaigaon_PGCIL-ECI			
					Salakati-Fibcom			
					Bongaigaon-Fibcom			
					Salakati-ComTel			
24	Kamakhya	ASSAM	ABB	AEGCL	Salakati-ECI			
					Paltan Bazar-ABB			
					Sishugram-ABB			
25	Sishugram	ASSAM	ABB	AEGCL	Kahilipara_SLDC-ABB			
					Kamakhya-ABB			
					Amingaon-ABB			
26	Amingaon	ASSAM	ABB	AEGCL	Sishugram-ABB			
					Kamalpur-ABB			
					Rangia-ABB			
27	Umtru	MEGHALAYA	ECI	MEPTCL	Kahilipara_SLDC-ECI			
					UmiamStg3-ECI			

28	Umiam Stg3	MEGHALAYA	ECI	MEPTCL	Umtru-ECI
					UmiamStg1-ECI
					UmiamStg3-GE
29	Umiam Stg1	MEGHALAYA	ECI	MEPTCL	UmiamStg3-ECI
					NEHU_SLDC-ECI
30	NEHU_SLDC	MEGHALAYA	ECI	MEPTCL	UmiamStg1-ECI
					PGCIL_Shillong-ECI
					NEHU_SLDC-Fibcom
					NEHU_SLDC-Tejas
			Fibcom	MEPTCL	NEHU_SLDC-ECI
					Neighrims-Fibcom
					NERLDC_Shillong-Fibcom
31	Khleihriat	PGCIL	ECI	PGCIL	PGCIL_Shillong-ECI
					Khleihriat_PG-Tejas
					Badarpur_PG-ECI
					Khleihriat_PG-Fibcom
					Khandong_PG-ECI
					Misa_PG-ECI
			Fibcom		Khleihriat_PG-Tejas
					Khleihriat_State-Fibcom
					NERLDC_Shillong-Fibcom
					Haflong_PG-Fibcom
					Badarpur_PG-Fibcom
					Khleihriat_PG-ECI
			Tejas		Khleihriat_PG-ECI
					Khleihriat_PG-Fibcom
32	Khandong	NEEPCO	ECI	PGCIL	Khleihriat_PG-ECI
33	Kopili	NEEPCO	ECI		Kopili_PG-ECI
					Khandong_PG-ECI
					Misa_PG-ECI
34	Badarpur	PGCIL	ECI_Upgrade	PGCIL	Khleihriat_PG-ECI
					Kumarghat_PG-ECI
					Badarpur_PG-Fibcom
			ECI		Badarpur_PG-ECI
					Badarpur_PG-ECI Upgrade
					Badarpur_PG-Fibcom
					Kolasib_Mizoram-ECI
					Silchar_PG-ECI
					Jiribam_PG-ECI
			Fibcom		AEGCL_Badarpur-ECI
					Khleihriat_PG-Fibcom
					Kumarghat_PG-Fibcom
					Aizwal_PG-Fibcom
					Jiribam_PG-Fibcom
					Silchar_PG-Fibcom
35	Silchar	PGCIL	Fibcom	PGCIL	Badarpur_PG-ECI
					Badarpur_PG-ECI Upgrade
					Badarpur_PG-Fibcom
			ECI		Melriat_PG-Fibcom
					Jiribam_PG-Fibcom
					Silchar_PG-ECI
					Silchar_PG-Fibcom
			Comtel_ECI		Silchar_ECI-ComTel
					Melriat_PG-ECI
					Srikona_AEGCL-ECI
			Fibcom		Badarpur_PG-ECI
					Silchar_PG-ECI
					Misa_PG-ComTel
					Jiribam_PG-ECI
					Silchar_PG-Fibcom
					Badarpur_PG-Fibcom

36	Jiribam	PGCIL	Fibcom	PGCIL	Jiribam_AS-Fibcom
			ECI		Imphal_PG-Fibcom
37	Imphal	PGCIL	Fibcom	PGCIL	Loktak_NHPC-Fibcom
			ECI		Jiribam_PG-Fibcom
38	Loktak	NHPC	Fibcom	PGCIL	Pailapool_AS-ECI
					Badarpur_PG-ECI
39	Dimapur	PGCIL	Fibcom	PGCIL	Imphal_PG-ABB
			ECI		Imphal_SLDC-Fibcom
40	Doyang	NEEPCO	Fibcom	PGCIL	Imphal_PG-ECI
					Loktak_NHPC-Fibcom
41	Palatana	OTPC	Fibcom	PGCIL	Imphal_PG-Fibcom
					Kohima_Nagaland-ECI
42	SM Nagar(TS)	TRIPURA	Fibcom	PGCIL	Imphal_PG-Fibcom
					Ningthoukhong-Fibcom
43	Agartala_SLDC	TRIPURA	Fibcom	PGCIL	Rengpang-Fibcom
					Jiribam_PG-Fibcom
44	RCNagar_AGTCCPP	NEEPCO	Fibcom	PGCIL	Kohima_Nagaland-Fibcom
					Nagarjan-Fibcom
45	Kumarghat	PGCIL	Fibcom	PGCIL	Dimapur_PG-ECI
					Misa-Fibcom
46	Aizwal	PGCIL	Fibcom	PGCIL	Doyang-Fibcom
					Dimapur_PG-Fibcom
47	Aizwal	PGCIL	Fibcom	PGCIL	Misa_PG-ECI
					Kohima_Nagaland-ECI
48	Aizwal	PGCIL	Fibcom	PGCIL	Dimapur_PG-Fibcom
					Sanis-Fibcom
49	Aizwal	PGCIL	Fibcom	PGCIL	Mokokchung_Naga-Fibcom
					Udaipur_TS-Fibcom
50	Aizwal	PGCIL	Fibcom	PGCIL	SMNagar_TS-Fibcom
					SMNagar_Sterlite-GE
51	Aizwal	PGCIL	Fibcom	PGCIL	Budhjungnagar)TS-Fibcom
					Palatana-Fibcom
52	Aizwal	PGCIL	Fibcom	PGCIL	Agartala_79Tilla-Fibcom
					SMNagar_TS-Fibcom
53	Aizwal	PGCIL	Fibcom	PGCIL	Agartala_SLDC-ECI
					RCNagar-Fibcom
54	Aizwal	PGCIL	Fibcom	PGCIL	Baramura-Fibcom
					Agartala_79Tilla-Fibcom
55	Aizwal	PGCIL	Fibcom	PGCIL	RCNagar_PG-ECI
					Rokhia-ECI
56	Aizwal	PGCIL	Fibcom	PGCIL	Mohanpur-ECI
					Agartala_79Tilla-Fibcom
57	Aizwal	PGCIL	Fibcom	PGCIL	RCNagar_PG-ECI
					Kumarghat-Fibcom
58	Aizwal	PGCIL	Fibcom	PGCIL	PK Bari_TS-Fibcom
					RC_Nagar_Indigrid-GE
59	Aizwal	PGCIL	Fibcom	PGCIL	RCNagar-Fibcom
					Agartala_SLDC-ECI
60	Aizwal	PGCIL	Fibcom	PGCIL	Kumarghat_PG-ECI
					RCNagar-Fibcom
61	Aizwal	PGCIL	Fibcom	PGCIL	Kumarghat_PG-ECI
					PKBari_TS-Fibcom
62	Aizwal	PGCIL	Fibcom	PGCIL	Badarpur-Fibcom
					PK Bari_TS-ECI
63	Aizwal	PGCIL	Fibcom	PGCIL	RCNagar_PG-ECI
					Kumarghat-Fibcom
64	Aizwal	PGCIL	Fibcom	PGCIL	Badarpur-ECI Upgrade
					Melriat_PG-Fibcom
65	Aizwal	PGCIL	Fibcom	PGCIL	Aizwal_PG-ECI
					Badarpur_PG-Fibcom
66	Aizwal	PGCIL	Fibcom	PGCIL	Zembawak-Fibcom

			ECI		Aizwal_PG-Fibcom	
					Kolasib_Mizoram-ECI	
					Melriat_PG-ECI	
47	Melriat	PGCIL	Fibcom	PGCIL	Melriat_PG-ECI	
					Shimmui-Fibcom	
					Aizwal_PG-Fibcom	
					Silchar_PG-Fibcom	
					Zembawak-Fibcom	
			ECI		Aizwal_PG-ECI	
					Melriat_PG-Fibcom	
					Silchar_PG-ECI	

Annexure B 2.2 (i)

List of Important OPGW		
Sl. No.	Name of OPGW Link	Ownership
1	Bongaigoan (PG) - Bongaigoan (AS)	PGCIL
2	Bongaigoan (PG) - Salakati (PG)	PGCIL
3	Bongaigoan (PG) - NTPC BgTPP	PGCIL
4	Doyang(NEEPCO) - Mokachung(state)	PGCIL
5	Doyang - Dimapur	PGCIL
6	Doyang - Sains	Nagaland
7	Mokakchung(PG) - Mokakchiung(State)	PGCIL
8	Mokakchung(PG) - Mariani(PG)	PGCIL
9	Dimapur SLDC - Nagarjun	PGCIL
10	Dimapur SLDC - Dimapur(PG)	PGCIL
11	Dimapur - Doyang	PGCIL
12	Dimapur - Kohima	PGCIL
13	Dimapur - Misa	PGCIL
14	Wokha- Kohima	Nagaland
15	Kohima - Wokha	Nagaland
16	Kohima - Dimapur(PG)	PGCIL
17	Kohima - Imphal(PG)	PGCIL
18	Imphal - Imphal SLDC	PGCIL
19	Imphal - Jiribam(PG)	PGCIL
20	Imphal - Loktak	PGCIL
21	132kV Yurembam(Imphal) - Yaingangpokpi	MSPCL
22	Yaingangpok - Hundung	MSPCL
23	Yaingangpok - Kongba	MSPCL
24	Kongba - Thoubal	MSPCL
25	Thoubal - Kakching	MSPCL
26	Loktak(NHPC) - Imphal(PG)	PGCIL
27	Loktak(NHPC) - Rengpang	MSPCL
28	Loktak(NHPC) - Ningthoukhomg	MSPCL
29	Loktak - Jiribam(PG)	PGCIL
30	Misa - Balipara	PGCIL
31	Misa(PG) - Mariani(PG)	PGCIL
32	Mariani - Kathalguri	PGCIL
33	Mariani(PG) - Mariani AEGCL	PGCIL
34	Mariani(PG) - New Kohima (KMTL)	Aparva
35	New Kohima (KMTL) - Imphal (PG)	Aparva
36	Balipara - Gohpur	PGCIL
37	Balipara - Sonabil	AEGCL
38	Balipara - BNC(HVDC)	PGCIL
39	Mirza - Sarusajai	AEGCL
40	Mirza - Boko	AEGCL
41	Agia - Boko	AEGCL

42	Agia - BTPS	AEGCL
43	Agia - Mendipathar	AEGCL
44	Rangia - BNC_HVDC	PGCIL
45	BNC(HVDC) - Balipara	PGCIL
46	BNC_HVDC - Rangia	PGCIL
47	BNC_HVDC - Ranganadi	PGCIL
48	BNC_HVDC - Itanagar_SLDC	PGCIL
49	Bongaigaon (AS) - Rangia	AEGCL
50	Salakati - Bongaigaon	PGCIL
51	Ranganadi - Ziro	PGCIL
52	Ranganadi - BNC_HVDC	PGCIL
53	Ranganadi - Gohpur	PGCIL
54	Ranganadi - Parey	PGCIL
55	Itanagar - BNC_HVDC	PGCIL
56	Itanagar - Arunachal_Itanagar(SLDC)	PGCIL
57	Arunachal_Itanagar(SLDC) - Nirjuli	PGCIL
58	Palatana(OTPC) -SM Nagar(TR)	PGCIL
59	SM Nagar(TR) - Agartala_79Tilla	PGCIL
60	Agartala_79Tilla - RC Nagar	PGCIL
61	SM Nagar(TR) - SM Nagar(ST)	PGCIL
62	SM Nagar(ST) - PK Bari(ST)	PGCIL
63	PK Bari(ST) - PK Bari(TR)	PGCIL
64	PK Bari(TR) - RC Nagar	PGCIL
65	RC Nagar - Kumarghat	PGCIL
66	PK Bari(TR) - Kumarghat	PGCIL
67	Kumarghat - Badarpur	PGCIL
68	Badarpur - Khleihriat(PG)	PGCIL
69	Badarpur - Jiribam	PGCIL
70	Badarpur - Silchar	PGCIL
71	Badarpur - Aizwal	PGCIL
72	Khleihriat(PG) - Khleihriat (ME)	PGCIL
73	Khleihriat(PG) - Khandong	PGCIL
74	Khleihriat(ME) - Neighrims	PGCIL
75	Neighrims - NEHU	PGCIL
76	Khandong - Kopili	PGCIL
77	Kopili - Misa	PGCIL
78	Aizwal - Melriat	PGCIL
79	Melriat - Silchar	PGCIL
80	Aizwal - Kolasib	PGCIL
81	Badarpur - Kolasib	PGCIL
81	Haflong(PG) - Umrangshu	PGCIL
81	Umrangshu - Khandong	PGCIL
82	Pare - SLDC_Itanagar	PGCIL



भारत सरकार Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय
NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

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website: www.nerpc.gov.in

No: NERPC/NETeST/2026/1148-1151

10th July 2026

सेवा में / To

As per list attached

विषय: PSDF फंडिंग के तहत NER SCADA/EMS ULDC-III प्रोजेक्ट को लागू करने से संबंधित विशेष बैठक का कार्यवृत्त

Sub: Minutes of special meeting on implementation of the NER SCADA/EMS ULDC-III project under PSDF funding - reg.

महोदय/महोदया,

कृपया आपकी जानकारी और आवश्यक कार्रवाई हेतु, 3 जुलाई 2026 (शुक्रवार) को सुबह 10:30 बजे NERLDC कॉन्फ्रेंस हॉल, गुवाहाटी में आयोजित PSDF फंडिंग के तहत NER SCADA/EMS ULDC-III प्रोजेक्ट को लागू करने से संबंधित विशेष बैठक का कार्यवृत्त इसके साथ संलग्न है। यह कार्यवृत्त NERPC की वेबसाइट: www.nerpc.gov.in पर भी उपलब्ध है।

कृपया कोई भी टिप्पणी जल्द से जल्द एन.ई.आर.पी.सी सचिवालय को सूचित करें।

यह सदस्य सचिव, NERPC के अनुमोदन से जारी किया जाता है।

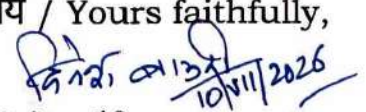
Sir/Madam,

Please find enclosed herewith the minutes of the special meeting on implementation of the NER SCADA/EMS ULDC-III project under PSDF funding which was held on 3rd July 2026 (Friday) at 10:30 hrs at NERLDC Conference Hall, Guwahati for your kind information and necessary action. The minutes is also available on the website of NERPC: www.nerpc.gov.in.

Any comments/observations may kindly be communicated to NERPC Secretariat at the earliest.

This issues with the approval of Member Secretary, NERPC.

भवदीय / Yours faithfully,


(डी.के. बौरी / D.K Bauri)
निदेशक / Director

Distribution List:

1. ED, NERLDC, Dongtiah, Lower Nongrah, Lapalang, Shillong -793 006
2. CGM, GA&C, POWERGRID, B-9 Qutab Institutional Area, Katwaria Sarai, New delhi-110016

Copy to:

1. PS to Member Secretary, NERPC Shillong
2. Director (Operations), PGCIL, Plot No.2, Sector-29, Gurgaon-122001


10/11/2026

(डी.के. बौरी / D.K Bauri)

निदेशक / Director

Minutes of Special Meeting on “Implementation of the NER SCADA/EMS ULDC-III project under PSDF funding” held on 3rd July, 2026 (Friday)

A special meeting was convened by NERPC on 3rd July, 2026 (Friday) at 10:30 Hrs at “NERLDC, Grid India”, Guwahati to deliberate the way forward for implementation of the SCADA/EMS Upgradation in NER. As per the decision in the 26th Monitoring Committee of PSDF, the project is to be executed by POWERGRID. The discussions and decisions are summarised as below.

Participants list is attached as **Annexure-I**.

1. Opening Remarks

Member Secretary (MS), NERPC welcomed all participants to the meeting and invited them to engage in a fruitful discussion.

CGM (I/C), NERLDC requested that the project should be completed at the earliest in view of the impending expiry of the Annual Maintenance Contracts (AMCs) across the State Load Despatch Centres (SLDCs) and NERLDC. He emphasised that any further delay in implementation would result in significant cost escalation, noting that the extant approved project cost is approximately ₹521 crore and that discussions with POWERGRID would be necessary regarding AMC and other implementation modalities.

It was also highlighted that the extended AMC for Assam SLDC is scheduled to expire in November 2026 and for other states AMC is expected to be expire in coming years, and that any delay beyond this period would substantially increase AMC expenditure.

ED (GA&C), POWERGRID expressed gratitude to NERPC for providing the opportunity to discuss & present the SCADA/EMS Upgradation for NER project.

Member Secretary, NERPC concurred with the views expressed by CGM (I/C), NERLDC regarding the urgency of the project.

POWERGRID thereafter made a detailed presentation on the project, which is enclosed as **Annexure-II**.

2. Discussion Points

2.1 Total Cost Estimate

The issue of the total cost estimate (as per the latest figures available) for each SLDC, inclusive of the Annual Maintenance Contract (AMC), was discussed. POWERGRID presented the fresh cost estimate at approximately ₹ 688/- Crore (including AMC) with ₹538.91 Crore as Supply & Service and ₹149.69 Crore as AMC.

It was explained that, while the earlier PSDF approval was based on a project cost of ₹521/- Crore, a revised estimate has now been prepared taking into account the recently awarded rates in the Northern and Eastern Regions, reflecting approximately 40–50% escalation in hardware prices. POWERGRID further submitted that the estimate is likely to escalate on account of a subsequent rise in the cost of Hardware/electronic items. It was noted that server and memory prices, in particular, continue to rise owing to growing demand from AI and data-centre applications. The revised estimate also includes IEDC and contingency charges.

2.2 PSDF Fund Flow through Tripartite Agreement

Director, NERPC observed that SCADA/EMS upgradation project had been discussed in the last two NERPC meetings and that the only major pending issue remains the AMC mechanism, on which NERPC had already communicated with POWERGRID on multiple occasions.

POWERGRID informed that it would facilitate the flow of funds under the Power System Development Fund (PSDF) to the States during the AMC period, through a Tripartite Agreement comprising PSDF, the concerned State SLDC, and POWERGRID as the implementing entity. It was clarified that POWERGRID has not been responsible for AMC execution since ULDC Phase-I & ULDC Phase-II, the AMC having traditionally remained the responsibility of the project owner (i.e. State SLDCs/RLDCs). However, in the present case of 70:30 PSDF funding mechanism for NER SCADA/EMS ULDC-III project, POWERGRID would facilitate the fund-flow mechanism for AMC payments under the proposed arrangement.

It was informed that the same modality has already been adopted and is running successfully in the State of Ladakh, where the AMC portion is also funded through PSDF. Under the arrangement, PSDF would release quarterly advance funds to POWERGRID, and POWERGRID would subsequently transfer the AMC funds to the respective States.

The Tripartite Agreement of Ladakh SCADA/EMS project is enclosed as **Annexure-III** for reference. The procedure for the flow of funds under the aforesaid arrangement was outlined as follows:

- a. On submission of the quarterly bill by the vendor to the State, the State shall raise a request to POWERGRID for the PSDF portion of the bill.
- b. POWERGRID shall thereupon submit the request to PSDF for release of the fund.
- c. On receipt of the fund from PSDF, POWERGRID shall forward the same to the State.
- d. The State shall pay the vendor's bill, discharging the PSDF portion from the fund so received and the balance from its own resources.
- e. The State shall submit a Fund Utilisation Certificate, duly certified by an auditor, to POWERGRID.

2.4 MoU / Agreement between POWERGRID and NER SLDCs

POWERGRID informed that an agreement /MoU would be required between POWERGRID and the respective SLDCs of the NER States, both for execution of the project and to serve as formal consent from the SLDCs for undertaking the same.

POWERGRID requested forum to extend the necessary support in completing the signing process of agreement with the NER SLDCs. The draft agreement intended to be signed is attached as **Annexure-IV**.

2.5 Nomination of Project Executing Agency and Inclusion of NERLDC Guwahati & Shillong in the SCADA/EMS Upgradation Project

POWERGRID enquired whether NERLDC agrees to the implementation of project through POWERGRID and further enquired regarding the inclusion of NERLDC Guwahati and Shillong within the ambit of SCADA/EMS upgradation project.

NERLDC referred to the deliberations held in the meeting among CMD, GRID-INDIA and CMD, POWERGRID on 08th September 2022, wherein the philosophy of "One-Region One-Tender" was adopted and it was decided that a single combined tender would be floated for one region. In terms of the said deliberations, the Northern Region (NR) and Eastern Region (ER) were entrusted to POWERGRID for execution, while the Western Region (WR) and Southern Region (SR) were entrusted to GRID-INDIA. The Northeastern Region (NER), however, remained undecided at that stage in view of the funding arrangement under PSDF.

NERLDC further submitted that, in view of POWERGRID having since been entrusted with the role of Implementing Agency for the NER-SLDCs by the 26th Monitoring Committee of PSDF held on 16th December 2025, it would be appropriate that the SCADA/EMS Upgradation of NERLDC Shillong and NERLDC Guwahati be undertaken concurrently with that of the NER-SLDCs. This would ensure vendor

uniformity and minimise operational challenges across the SCADA/EMS systems of the NER. Accordingly, NERLDC expressed its intent to incorporate the SCADA/EMS Upgradation of NERLDC Shillong and Guwahati within the scope of the aforesaid NER project, with POWERGRID acting as consultant for the project, in line with the MoU signed with ERLDC and NERLDC for executing similar projects in their respective regions. NERLDC informed the forum that the project cost for the NERLDC portion would be recovered through RLDC fees and charges as per CERC norms, as is being followed in all other regions.

2.6 Preparation of Draft / Revised DPRs and BoQs

POWERGRID informed the forum that the preparation of a fresh (revised) Detailed Project Report (DPR) would be necessary and requested formal concurrence from NERPC before proceeding further. It was also informed that the Technical Specification (TS) and questionnaire had been circulated to the NER States in April 2026, though responses were still awaited.

NERPC requested POWERGRID to proceed with the preparation of the Draft DPRs for the SLDCs, along with the corresponding Bills of Quantities (BoQs), and further requested NERLDC to extend all necessary assistance in verifying the BoQs and Draft DPRs. POWERGRID submitted that, based on the experience gained during execution of the NR and ER projects, certain line items — which were either not being delivered or were found not required for the project — have been excluded from the scope. It was further noted that, subsequent to preparation of the DPRs, the same shall be submitted to PSDF for approval of funds.

2.7 Issues Requiring Finalisation

Based on the experience of the NR and ER projects, POWERGRID observed that completion of the ULDC Phase-III projects in NR & ER had taken nearly three years, owing to challenges such as vendor-dependent database development and display configuration. Accordingly, the following aspects were identified for finalisation before preparation of the DPR:

- Responsibility for database & display development.
- Status and management of AMC for the existing RTUs.

2.8 Site Details and Nodal Officers

POWERGRID requested the forum to furnish the addresses of the Main and Backup SLDCs, and to appoint Nodal Officers and Alternate Nodal Officers for each SLDC. NERPC assured that all such details would be provided to POWERGRID at the earliest.

2.9 Status of AMC Expiry — SLDCs and NERLDC

NERLDC submitted the status of expiry of the AMC for each SLDC and NERLDC, as tabulated below:

Sl. No.	Name of Control Centre	Original AMC Expiry (7+2)	Extended AMC Expiry Date
1.	Arunachal Pradesh	31-03-2027	Not required at present
2.	Assam	11-11-2024	11-11-2026
3.	Manipur	07-11-2025	Under awarding stage
4.	Meghalaya	31-03-2025	31-03-2027
5.	Mizoram	30-04-2026	Under awarding stage
6.	Nagaland	31-03-2027	Not required at present
7.	Tripura	31-03-2025	Under awarding stage

Sl. No.	Name of Control Centre	Original AMC Expiry (7+2)	Extended AMC Expiry Date
8.	NERLDC	31-01-2026	31-01-2029

NERPC informed the forum that SCADA AMC support in Tripura had already been withdrawn, rendering the implementation of Phase-III increasingly critical. In view of the above, the forum requested POWERGRID to expedite the SCADA/EMS Upgradation of NER, as the extended AMCs of all the States are nearing expiry.

2.10 Special Meeting with SLDCs

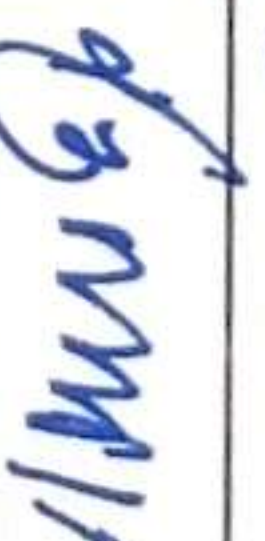
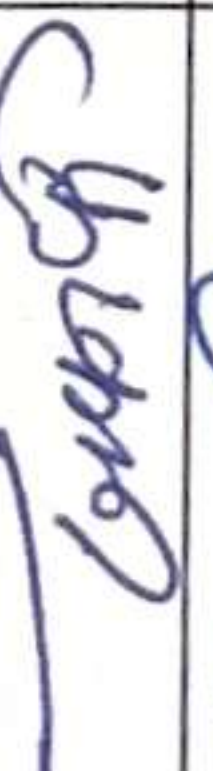
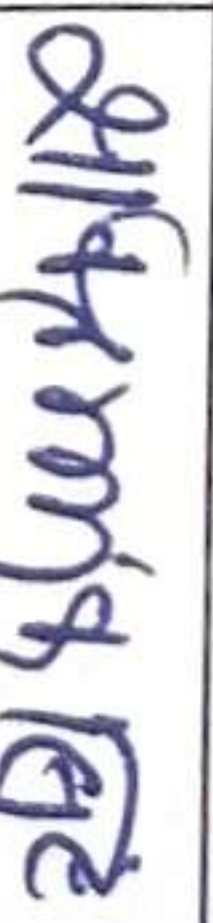
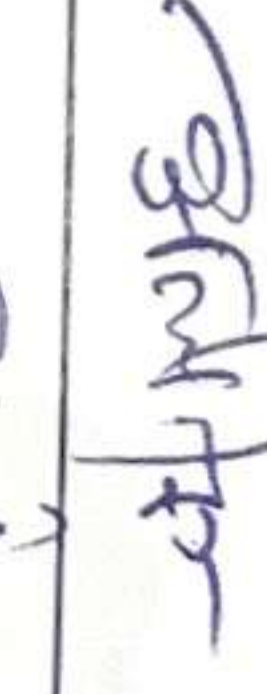
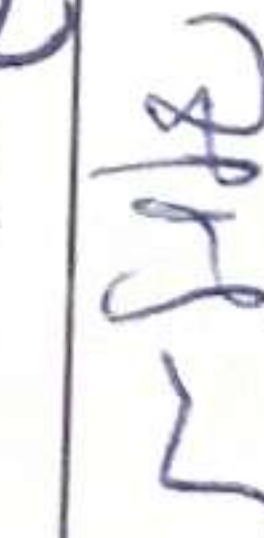
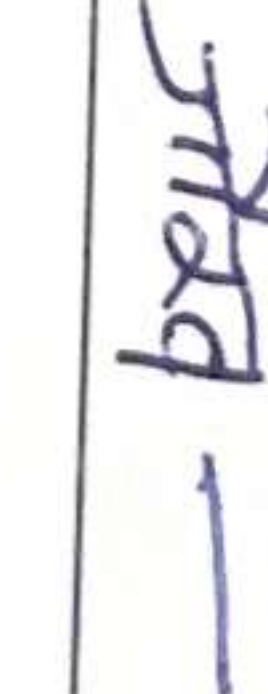
NERPC informed the forum that a Special Meeting with the SLDCs / all NER constituent States would be convened shortly, following the present meeting, in order to apprise them of the developments in respect of the SCADA/EMS Upgradation of NER. NERPC requested the presence of Grid Automation & Communication (GA&C), POWERGRID, during the said meeting.

3. Action Points

The following action points were agreed upon:

Sl. No.	Action Item	Responsibility	Timeline
1	Share detailed BoQ with NERLDC for comparison with the earlier BoQ and incorporation of observations, if any.	POWERGRID / NERLDC	Within one week
2	Nomination of Nodal Officers by constituent States.	NERPC / States	During the next NeTEST meeting (end of July 2026)
3	Prepare and submit revised DPR to PSDF for approval.	POWERGRID	By August 2026

NERPC Special meeting on SCADA/EMS Phase-3 dated 03.07.2026 at NERLDC Guwahati

S No	Name	Designation	Organization	Email ID	Mobile No	Signature
01	Somnath Laksh	CGM (C/C)	GoD Grid	sonnath.laksh@grid-india.in	9310953819	
02	D K Bauri	Director	NERPC	dkbauri.ceo@gov.in		
03	Sunil Kumar	ED (C/C)	POWERGRID	sunilkumar@powergrid.in	9910045512	
04	Furkan A. Siddiqui	DCM	POWERGRID	fa.siddiqui@powergrid.in	9650598183	
05	Sakal Deep	DM	NERLDC	skdeep@grid-india.in	97744528218	
06	SHAKTI MAYANK SINGH	Am	NERLDC	shaktimayank@grid-india.in	8299085576	
07	PALASH JYOTI BORAH	CM	NERLDC	palash.jyoti@grid-india.in	8761093399	
08	Manish Kr. Tiwari	CGM	POWERGRID	manish.tiwari@powergrid.in	8826896879	
09	KAHLESH BHASHYA	DY. MGR	POWERGRID	kamlesh@powergrid.in	9859723132	
10	Amit Gupta	DGM	NERLDC	apgupta@grid-india.in	9869221406	
11	Ashwin Kr. Ganeswarani	AD - II	NERPC	ashwnganeswarani@gov.in	8638966481	
12	Dinesh Kr Singh	AD	"	singh.dinesh39@gov.in	7042118261	
13	A. De.	Dy. Director	NERPC	alix.erpc@gov.in		
14	S Mondal	Ex	NERPC	sumesh@grid-india.in	9433041555	
15	Gaurav Bhattacharjee	DM	NERLDC GRID-INDIA	bhattacharjee.gaurav@grid-india.in	9402304210	
16	S. dyngkhor	MS, NERPC		← Attended through Online →		

NER ULDC Ph-III Project

“Implementation of Unified Load Dispatch and Communication (ULDC) Phase-III (SCADA/EMS Upgradation Project –North Eastern Region)”

NERPC Special Meeting

on 03.07.2026

Index

- **Project Scope**
- **Tentative Project Cost**
- **Funding and tariff**
- **Tripartite Agreement**
- **Project execution methodology**
- **Project Timeline**
- **Inputs required for DPR**
- **Owner's Responsibility**
 - **Readiness of Site**
 - **Responsibility during Project**
 - **Responsibility during AMC**
- **Important Issues**

Project Scope

- **Project** : “Implementation of Unified Load Dispatch and Communication (ULDC) Phase-III (SCADA/EMS Upgradation Project – North Eastern Region)”
- **Scope of Work:**
 - Installation of SCADA/EMS system equipped with Computer Hardware & Software at Main and Backup Control Centers of 7 States
 - Integration of RTUs/SASs/Terminal server/DCPC, VPS, VC systems, Aux Power Supply system and DG set etc., with respective Main & Backup Control Centers of respective RLDC/SLDCs
 - Integration of Main and Backup Control Centers of SLDCs with Main and Backup control centers of NERLDC
 - Integration with other computer systems such as metering, scheduling etc., wherever applicable.
 - Comprehensive maintenance of complete system for 7 years (1-year warranty and 6-year AMC)
 - Training of Owner’s personnel
 - Cyber Security Audit as per Statutory guidelines.

Project Cost (As approved by PSDF in Dec'25)

S. No.	SLDC	Total Cost (Rs. Cr.)	Project Cost (Rs. Cr.)	AMC for 7 Yr (Rs. Cr.)
1	Assam	79.92	24.29	25.63
2	Tripura	74.64	49.03	25.61
3	Meghalaya	75.75	50.14	25.61
4	Manipur	71.85	46.25	25.60
5	Mizoram	72.51	46.91	25.60
6	Nagaland	73.31	47.71	25.60
7	Arunachal Pradesh	73.69	48.09	25.60
Total		521.67	342.07	179.27

Project Cost (Revised Est. Cost after considering 50% escalation on HW price). Due to increased storage and RAM prices under the current market conditions

S. No.	SLDC	Total Cost (in Cr.)	Project Cost (in Cr.)	AMC for 7 Yr (in Cr.)
1	Assam	101.90	79.75	22.15
2	Tripura	98.29	76.93	21.36
3	Meghalaya	99.39	77.79	21.61
4	Manipur	97.53	76.79	21.20
5	Mizoram	94.75	74.16	20.59
6	Nagaland	97.94	76.65	21.29
7	Arunachal Pradesh	98.79	77.32	21.47
Total		688.61	538.91	149.69

Funding and Tariff

S. No.	SLDC	Project Cost (in Cr.)	Funding (Rs. Cr.)		Tariff yearly
			30 % RTM (POWERGRID)	70 % by PSDF	
1	Assam	79.75	23.93	55.82	7.27
2	Tripura	76.93	23.08	53.85	7.01
3	Meghalaya	77.79	23.34	54.45	7.09
4	Manipur	76.79	22.89	53.43	6.96
5	Mizoram	74.16	22.25	51.91	6.76
6	Nagaland	76.65	22.99	53.65	6.99
7	Arunachal Pradesh	77.32	23.19	54.12	7.05
Total		538.91	161.68	377.24	49.14

Tripartite Agreement of Ladakh SLDC

1) Tripartite agreement

(i) First Part-PSDF as Nodal agency

(ii) Second part-SLDCs

(iii) Third part- POWERGRID as ENTITY



PSDF Tripartite Agreement_Ladakh SLDC.pdf

- 2) Treasury Single Account(TSA) of RBI shall be maintained by the ENTITY.
- 3) ENTITY shall establish a dedicated organization within the utility and nominate a nodal officer of suitable rank for speed execution of project.
- 4) Expenditure details will also be submitted by ENTITY to Nodal Agency for release of fund.
- 5) ENTITY responsible for execution of the scheme shall ensure timely submission of Project status to NLDC along with the request for dispersal of fund from PSDF.

Tripartite Agreement

Mode of Release of Funds

1- Project cost(Excluding AMC)

- a) First Stage- 10%- After MOU signing
- b) Second stage: 20 %- Award of contract
- c) Third Stage-60%- after utilization of 1st and 2nd installment
- d) Final Stage- Balance 10%- Completion certificate to Nodal Agency by ENTITY

2- Funds of AMC portion out of sanction PSDF grant be released by MOP, GOI to ENTITY through the Nodal Agency and in manner as indicated below

- i) 1st Stage- 14%- Signing of AMC agreement between SLDCs and Contractor
- ii) 2nd Stage 14%-For 2nd Year
- iii) 3rd Stage ; 14%- For 3rd Year
- iv) 4th Stage: 14%- For 4th Year
- v) 5th Stage: 14%- for 5th Year
- vi) 6th Stage 16%- for 6th Year
- vii) 7th Stage 16%-- for 7th Year

Project Execution Methodology

- 1) Consent by all Owners/Constituents
- 2) Agreement between POWERGRID and Owners/Constituents
- 3) Tripartite Agreement (POWERGRID+ Owners +PSDF)
- 4) Proposal to be put up to PSDF for approval
- 5) Sanction of Funds from PSDF
- 6) NIT, NOA
- 7) Engineering activities
- 8) Supply, Installation & commissioning at site
- 9) Handing over of system
- 10) AMC

Project Timeline (Tentative)

Activity	Timeline	Estimated Time (in months)
Agreement by all Stakeholders	July' 26	1
DPR preparation & Submission of proposal to PSDF	Aug' 26	1
PSDF Approval/Sanction Order	Sep' 26	1
NIT	Nov' 26	2
Award	Mar' 27	4
Engineering	18 months for existing Control Centre and 24 months for New Control Centre	
Factory Acceptance Test (FAT)		
Installation & Commissioning		
Site Acceptance Test (SAT)		
SAVT & Parallel Operation		
Taking Over Certificate		

Inputs required for DPR

- 1) Nomination of Coordinator (along with an alternate member) from each Constituent (SLDC) for finalization of scope.
- 2) Location & address of Main & Backup Control centers.
- 3) Input for finalization of BoQ
- 4) Details of existing RTUs. Sample format is attached at **Appendix-A**
- 6) Details of initial Power System Sizing. Sample format attached at **Appendix-B**
- 7) Requirement of furniture for CC (PSDF acceptance required)
- 8) Inputs sought vide letter dated 27.04.2026 is awaited



Letter to Manipur_SCADA details.pdf

Owner(s) Responsibilities...



Readiness of Site

- 1) Readiness of Main & backup CC for smooth execution of works in terms of civil building, AC power supply, Air conditioning, etc.,
- 2) Readiness of proper earthing for SCADA system, APS and DG set
- 3) LT panel for two independent AC sources to connect Input ACDB along with suitable rating MCCB
- 4) Adequate AC in battery & UPS room, Server room, Control room
- 5) Readiness of Communication Link.
- 6) Space availability for Outdoor equipment (DG Set) installation.
- 7) Providing Email server, SMS facility and internet connectivity at sites
- 8) Temporary space for storage of supplied material under watch & ward of contractor

Owner(s) Responsibilities...



Responsibility during Project:

- 1) Providing support and access to facilities at the sites.
- 2) Providing site specific inputs & existing system data for exchange of data with existing IT system/WAMS/Scheduling apps etc.
- 3) Input for data related to Power System / RTU
- 4) Modification in existing systems (RTU/other control system) for integration
- 5) Development of Database & Display
- 6) Validation of Database & Display
- 7) Any statutory clearance/ entry permit/shutdowns as required.
- 8) Taking over the delivered system upon completion of the project

Owner(s) Responsibilities...

Responsibility during AMC:

- The responsibility for maintenance of the SCADA/EMS system shall be with the Owner(s) of the system.
- The responsibility for payment to Contractor shall be in the scope of Owner(s) of the system.

Important Issues

- 1) A dedicated team for routine activities (including database preparation, display development, and validation etc.) shall be involved from the project initiation stage itself to ensure better coordination, quality, and timely completion of deliverables.
- 2) Augmentation of existing RTUs for dual reporting
- 3) AMC of existing RTUs
- 4) Man-Power with EMS application experience

THANK YOU

FRIDGES, ACs ARE AMONG 9 ITEMS THAT MAKE UP JUST 1% OF ENTIRE CPI BASKET OF GOODS & SERVICES

The memory chip problem that is slowly feeding into inflation

Siddharth Upasani
New Delhi, June 16

MORE EXPENSIVE PHONES & PCS

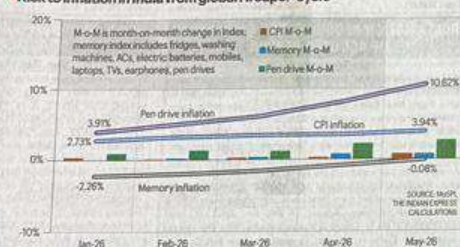
How consumers are now quietly paying for AI boom

Soumyarendra Barik &
Anil Sasi
New Delhi, June 16



Soaring memory costs are projected to drive worldwide smartphone shipments to drop by 8.4% in 2026.

• Risk to inflation in India from global AI super-cycle



only make up 1% of the entire CPI basket, compare that with the three TOP vegetables (onion, onion, potato) that account for nearly 2% of the CPI. Moreover, electronics manufacturers don't pass on higher input prices as quickly and substantially as farmers. Why? Because manufacturers already have a substantial profit margin built into the final price. However, the price increases announced so far are already hurting sales.

The India problem

As it turns out, not all buyers may be locking in long-term deals. Sumit Sadana, executive vice-president and chief business officer at Micron, told a media outlet last month that the US chip manufacturer's Indian customers were probably not understanding the gravity of the situation. He said that in terms of long-term demand, it was difficult to get "reliable signals" from Indian customers and what the company needed at this point was a "commitment" to such demand and not just an indication. The prospects for consumer electronics prices — and retail inflation — for Indians are not bright, then. The RBI currently expects CPI inflation to average 5.9% in the final three months of 2026. By then, the contribution to inflation from these electronics goods may be much higher. **FULL REPORT ON** WWW.INDIANEXPRESS.COM

for pen drives and hard disks is nearing 5%. Policymakers across the world are already taking note of this new source of inflation.

Last month, economists from the Federal Reserve wrote of the "unprecedented contribution" to core inflation by the "Computer Software and Accessories" category of the US's Personal Consumption Expenditures price index.

Structural shortage

In India, the contribution to inflation of the nine items mentioned above has been rather small, partially because they

such as marketing, distribution and taxes, and is a crucial metric used by manufacturers to assess profitability and pricing strategy. Senior analyst at Counterpoint, Shenghao Bai noted, "The memory price surge is delivering a structural impact to smartphone BOM costs. In 2026, OEMs will struggle to balance component costs, gross margins and shipment targets. Those who rely heavily on entry-level models to drive market share will face a significant risk of short-term losses. The way that manufacturers will mitigate these rising costs, according to Counterpoint, is by reducing expected shipment targets for low-end models, downgrading non-core specifications to offset costs, and simply passing the cost on to customers."

What that's leading to is a longer usage duration of smartphones especially in price-sensitive markets such as India. And the proportionate increase is higher in the lower end of the market, where price elasticity is higher.

AI has triggered a global memory shortage by pushing chipmakers to divert production towards lucrative high-bandwidth memory used in data centres, leaving less conventional DRAM (dynamic random-access memory) available for smartphones and PCs and driving up prices across the electronics supply chain.

AI boom hits budget phones, computers

According to a report by market intelligence firm Counterpoint Research, memory will ac-

Gartner estimates a 130% surge in combined DRAM and solid-state drive (SSD) prices by the end of 2026, which will increase PC prices by 17% and smartphone prices by 13%, compared to 2025 levels. This situation will concentrate demand on premium devices.

"This is the steepest contraction in device shipments witnessed in over a decade. Higher prices will narrow the range of devices available, prompting buyers to hold on to devices for longer, fundamentally altering upgrade cycles," said Ranjit Atwal, Sr. Director Analyst at Gartner. Because of rising costs, Gartner expects PC lifetime to increase by 15% for business buyers and 20% for consumers by the end of 2026. These delayed upgrades will further raise concerns over increased security vulnerabilities and challenges of managing older devices.

Why AI is so hungry for memory

The surge in RAM prices is largely a consequence of how the AI boom has reshaped the memory industry.

AI servers built by companies such as Nvidia require enormous quantities of high-bandwidth memory (HBM), a specialised form of memory that allows AI chips to process data much faster. As demand for AI infrastructure exploded, memory manufacturers, which include Samsung, SK Hynix and Micron among others, began diverting more production capacity towards HBM and server-grade DRAM, which offer far higher margins than memory used in smartphones and PCs, according to a report by intelligence and consultancy firm TrendForce. With these new

States' development, welfare spending surges 131% in 10 years: CAG

RBI relaxes ECLGS 5.0 norms

ENS Economic Bureau
Mumbai, June 16

THE RESERVE Bank of India

As of June 10, more than 1.06 lakh loans worth over

urban cooperative banks and non-banking financial companies. The move follows the government's introduction of

Soumyarendra Barik & Anil Sasi
New Delhi, June 16

SMARTPHONE SALES, especially those at the budget end of the spectrum, are beginning to hit a wall, thanks to the startling price of RAM — high memory that once was one of the cheapest smartphone and computer components — which has more than tripled in value since October 2022.

Like phones and laptops, rising memory costs could end up impacting other electronic devices such as smart TVs and medical devices.

The single biggest reason for the surge in memory cost is the explosive growth in the data centres which power AI, which has started to fall back on RAM (random access memory) rather than the previous heavy reliance on graphics processing units (GPUs).

What that's leading to is longer usage duration of smartphones especially in price-sensitive markets such as India. And the proportionate increase is higher in the lower end of the market, where price elasticity is higher.

AI has triggered a global memory shortage by pushing chipmakers to divert production towards lucrative high bandwidth memory used in

AI boom hits budget phones, computers

According to a report by market intelligence firm Counterpoint Research, manufacturers' share for a smartphone is 43% of the total bill of materials (BOM) for smartphones priced under Rs 20,000 (\$206), and their whole BOM may climb by as high as 25% in 2026. For portables phones, priced above Rs 80,000, BOM costs could rise by Rs 10,000-15,000 by the second quarter of 2026. Bill of materials is the total cost of all components and materials required to manufacture a product, excluding expenses

Soaring memory costs are projected to drive worldwide smartphone shipments to drop by 8.4% in 2023. sp.rmr

such as marketing, distribution and taxes, and is a crucial metric used by manufacturers to assess profitability and pricing strategy. Senior analyst at Counterpoint, Shenghao Bai noted, "The memory price surge is delivering a structural impact to smartphone BOM costs. In 2026, OEMs will struggle to balance component costs, gross margins and shipment targets. Those who rely heavily on entry-level models to drive volume will face a

mark share with a significant risk of short-term losses. The way that manufacturers will mitigate those rising costs, according to Counterpoint, is by reducing expected shipment targets for low- and medium-end products, downgrading non-core specifications to offset costs, and simply passing the cost on to customers.

"Considering the massive memory price surge, standard cost-cutting measures may only result in limited returns. A rise in retail prices seems unavoidable in 2026. We expect low-end retail prices to increase by around \$30, while the cost pressures on some premium flagships will likely be passed on to consumers, resulting in price hikes of \$150 to \$200," says the report.

Soaring memory costs are projected to drive worldwide shipments to decline 10.4% and smartphone shipments to drop by 8.4% in 2026, compared to 2025 levels, according to Gartner, Inc., a business and technology insights company.

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ity towards IBM and server-grade DRAM, which offer higher margins than memory used in smartphones and PCs, according to a report by Intelligence and consultancy firm TrendForce. With this new phase of AI evolution focusing less on training of models and more on inference, the data centres where Nvidia's graphic processing units or GPUs were essential, to a renewed focus now on running AI continuously.

enterprise workflows and are in what is described in Indianapolis as inferencing (making sense of the training data). There's a concomitant shift in their involvement in the AI.

FULL REPORT

Department of India, Department of Space
ISRO Propulsion Complex (IPRC)
P.O., Truvelveli District, Tamil Nadu-627113, India
CORRESPONDENCE

ifications published, the said period for the below:-
23-06-2026.
sing at IPRC, Mahendragiri, (Civil, PH, Electrical & AC
MNC/CMG-02/2026/27, Dated: 22-05-2026). (Estimated
are storage facility at IPRC, Mahendragiri (Civil, PH
(s) (No.: PRC/CMG/TD-11/MW/CMF-03/2026-27
at. 1,125.58 Lakhs)
details. Interested tenderers may please refer to the
s) Notice Inviting Tenders (NIT) on the website
www.milind.com and <https://www.tenderindia.com>

MDC Limited
(A Government of India Enterprise)
6-3-311/A, Conch Wala, Masab Tank, Hyderabad - 500028
91-40-23528715 to 23518121 Ext : 129 / 130, 23538710
Website: www.mdc.co.in, hyderabad@mmdc.co.in

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
(A Government of Andhra Pradesh Undertaking & an ISO 17001:2002 Certified Company)

NOTICE INVITING TENDER

The APTRANSCO invites bids online for Spec.No.PMM32-4 of 47/2026. Supply of 2 Nos. 220V, 850AH VRLA Battery banks.

Date & Time of availability of above tender: 24.06.2024 at 9:00PM. Website: www.tender.aptransco.tenderprocurement.gov.in. Contact No. CE/Transmission: 0866-2492930.

APTRANSCO/3003/2024 **SE: CHIEF ENGINEER/TRANSMISSION**

OSBI
Strategic Training Unit, Corporate Centre
Madame Cama Road, Nariman Point, Mumbai - 400021
REQUEST FOR PROPOSAL FOR SELECTION OF CONSULTANT / INSTITUTE
Offers are invited from reputed consultants / Institutes for organizing a programme on Design thinking. For details, please see Procurement News at Bank's website <https://osbi.bank.in>.
Sd/-
Deputy General Manager (L&E)
(STU Department)

Date: 17.06.2019

SBI

Information Security Department, State Bank of India,
Global IT Centre, Sec-11, CBD Beasapur, Navi Mumbai-400 614

Corrigendum - 5

Ref: SB/GITC/ISD/2016-27/SOC/1442

Dated: 06.04.2019

KRBL has issued Request for Proposal (RFP) for Setting up of Information Security Management System (ISMS) at SBI.

State Bank of Alabama visit Procurement News

Award Cost-NR ULDC_III

Price Bid opened on 10.06.2024

S No	Name of RLDC/SLDC	No of Control canters including sub-LDCs	Award Cost as per price Bid (in Rs Cr.)
1	NRLDC	2	86.69
2	HP SLDC	2	64.50
3	BBMB SLDC	1	39.66
4	DTL SLDC	2	72.83
5	HVPNL	2	63.54
6	J&K SLDC	2	132.93
7	RRVPNL	5 (3 Sub-LDCs)	84.51
8	PSTCL	1	42.92
9	UPPTCL	2	72.39
10	PTCUL	3	69.59
	TOTAL AWARD Cost for	22 Control Centres	Rs. 729.57 Crores

Award Cost-SR ULDC_III

S No	Name of RLDC/SLDC	No of Control canters including sub-LDCs	Award Cost as per price Bid (in Rs Cr.)
1	SRLDC	2	78.66
2	AndhraPradesh	2	60.89
3	Kerala	2	65.38
4	Puducherry	2	33.18
5	TamilNadu	2	78.46
6	Telangana	2	58.40
	TOTAL AWARD Cost for	12 Control Centres	Rs. 316.07 Crores

Award Cost-ER ULDC-III

S/n	Name of RLDC/SLDC	CA No.(Aug 2024)	No of CC incl. sub-LDCs	Award Cost (in Rs Cr.) (Incl. AMC)	AMC Cost (in Rs Cr.)
1	ERLDC	24-1326/01/590 & 02/591	2	75.37	22.65
2	BSPTCL	24-109875/1&2&3	2	58.18	17.49
3	DVC	24-109875/4&5&6	2	55.32	16.64
4	JUSNL	24-109875/16&17&18	2	69.35	20.85
5	OPTCL	24-109875/7&8&9	2	54.63	16.43
6	SIKKIM	24-109875/10&11&12	2	54.97	16.54
7	WBSETCL	24-109875/13&14&15	4 (2 Sub-LDCs)	69.39	20.87
	TOTAL AWARD Cost		16 Control Centres (incl. 2 Sub-LDCs)	Rs. 437.20 Crores	Rs 131.47 Crores

Details of Control Centers

(As per Technical specification)

S. No.	SLDC	Main CC	Backup CC	No. of existing RTU
1	Arunachal Pradesh	Itanagar (Chimpu)	Pasighat or Namsai *	8
2	Assam	Kahalipara	Samaguri	90
3	Manipur	Imphal (Yurembam)	Thoubal (400 kV)	12
4	Meghalaya	Nehu	Mawphlang	26
5	Mizoram	Aizawl (Electric Veng)	Kolasib	6
6	Nagaland	Dimapur (Nagarjun)	Zhadima	14
7	Tripura	Tripura (79 Tilla)	P.K. Bari	26

* Under Consideration

**GRID CONTROLLER OF INDIA LTD.
(Erstwhile POSOCO)**

National Load Despatch Centre

(Designated as Nodal Agency in accordance with Regulation 5 of CERC (PSDF) Regulations, 2014)
(PSDF-Secretariat)

Office Address: B-9, 1st Floor, Qutub Institutional Area, Katwaria Sarai, New Delhi - 16

Fax: 011-26524525, 26536901

Website: <https://psdfindia.in/>. Email: psdf@posoco.in ; nlde.psdf2020@gmail.com

Ref: NLDC-PSDF/POWERGRID-348/2022-23/

Date: 13th April, 2023

To,

Chief General Manager

Power Grid Corporation of India Ltd.

“Saudamini” Plot No: 02, Sector-29, Gurgaon-122001, Haryana

Email: chohan@powergrid.in

Sub: Sanction of grants from PSDF towards “Implementation of “Establishment of State Load Despatch Centre (SLDC) cum Renewable Energy Management Centre (REMC) in UT of Ladakh. (Project ID-348)”, signing of tripartite Agreement- reg.

Ref: Ministry of Power, GOI sanction orders No 10/1 /2014/0M (Vol-V) dated 16th January, 2023 for sanction of grant of Rs. 29.46 Crore for “Implementation of “Establishment of State Load Despatch Centre (SLDC) cum Renewable Energy Management Centre (REMC) in UT of Ladakh. (Project ID-348)”.

Sir,

Please find enclosed herewith the copy of the tripartite agreement duly signed by PGCIL, Power Grid and NLDC, Grid-India.

Thank you,

Your Faithfully



Suhas Dambhare
General Manager PSDF
NLDC-Grid India
(Erstwhile POSOCO)

Enclose: As above

For Kind Information:

1. Chief Engineer (OM), Ministry of Power

Non Judicial



Indian-Non Judicial Stamp
Haryana Government



Date : 06/04/2023

Certificate No. G0F2023D2832

G0F2023D2832

Stamp Duty Paid : ₹ 101

GRN No. 101181634

101181634

Penalty : ₹ 0

(Rs. Zero Only)

Seller / First Party Detail

Name: Nldc Grid controller of India Ltd

H.No/Floor : Na

Sector/Ward : Na

LandMark : Na

City/Village : Delhi

District : Delhi

State : Delhi

Phone: 98*****10



Buyer / Second Party Detail

Name : Pdd

H.No/Floor : Na

Sector/Ward : Na

LandMark : Na

City/Village : Ladakh

District : Ladakh

State : Ladakh

Phone : 98*****10

Others : Power grid corporation of india ltd

Purpose : TRIPARTITE AGREEMENT

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website <https://egrashry.nic.in>

AGREEMENT AMONGST

NODAL AGENCY OF PSDF,

PDD LADAKH

AND

POWER GRID CORPORATION OF INDIA LTD.

THIS AGREEMENT entered into this. ^{12th} day of ^{APRIL} 2023 (Two Thousand Twenty-Three) AMONGST National Load Dispatch Centre (NLDC) operated by Grid Controller of India Ltd (formerly Power System Operation Corporation Ltd), a company incorporated under the Companies Act, 1956 having its registered office at B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016(hereinafter referred to as "Nodal Agency") as the party of the First part.

AND

Union Territory of Ladakh, through POWER DEVELOPMENT DEPARTMENT OF UT of LADAKH (hereinafter referred to as " PDD LADAKH which expression shall include his successors in office") having its office at 1st Floor, 2nd Block, Council Secretariat Complex Ladakh Autonomous Hill Development Council Leh, Ladakh - 194101 is the party of the Second part.

AND

Power Grid Corporation of India Limited (**POWERGRID**), a Company incorporated under the Companies Act, 1956, having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110016, (hereinafter referred to as "ENTITY" which expression shall unless repugnant to the context or

सुहास डभारे / ^{12th} APRIL 2023
महाप्रबन्धक (पी.एस.डी.एफ.) / General Manager (PSDF)
राष्ट्रीय भार प्रेषण केंद्र / National Load Dispatch Centre
पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड (प्रा.स.डी.एफ.)
POWER SYSTEM OPERATION CORPORATION LTD. (PSOCL)
बी-9, कुतुब इंस्टीटयूशनल एरिया, कटवारी सराय, नई दिल्ली-110016
B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi

meaning thereof include its successors and assignee) as party of the Third part.

Nodal Agency, **PDD Ladakh** and **POWERGRID** are collectively referred to as "**Parties**" and singularly as a "Party/Entity".

- A. AND WHEREAS **PDD Ladakh** and **ENTITY** intend to implement the project for **Establishment of State Load Dispatch Center (SLDC) cum Renewable Energy Management Center (REMC) in UT of LADAKH** and whereas it has been agreed to finance such project(s) from PSDF on the terms and conditions as may be stipulated in the Sanction Letter(s) issued by Ministry of Power.
- B. AND WHEREAS the parties have agreed that the project(s), as posed by **ENTITY** and sanctioned by Monitoring Committee, under the PSDF Scheme commencing from the **Financial Year 2023-24** shall be deemed to have been covered under this agreement. The terms and conditions of sanction for a particular project, as contained in the Sanction Letter issued by the Ministry of Power, shall also form part and parcel of the present agreement. The sanction letter shall include supplementals and modifications issued by the Ministry of Power, if any, to the sanction letter.
- C. AND WHEREAS the responsibility for formulation, development and implementation of the aforesaid project(s) rests with the **ENTITY**.
- D. AND WHEREAS Funding from PSDF shall be considered for the projects proposed by **ENTITY** that have a bearing on grid safety and security, provided these are not covered under any other scheme of the Government of India, such as RAPDRP/RGGVY/NEF, etc.
- E. AND WHEREAS, Monitoring Committee of the PSDF has sanctioned the aforesaid project(s) for release of funds to meet the expenditure to be incurred on implementation of the project(s) covered under the programme, directly to **ENTITY** through the Nodal Agency.
- F. AND WHEREAS, a Treasury Single Account (TSA) of RBI, shall be maintained by the **ENTITY** for the development and implementation of such PSDF-funded projects.
- G. AND **PDD Ladakh** and **ENTITY** commit that they the **ENTITY** shall ensure that no tariff is claimed in the petition for the portion of the scheme funded from PSDF.
- H. AND WHEREAS **PDD Ladakh** shall be the owner of the assets created on implementation of the individual project(s), as sanctioned by PSDF.

Now, therefore, in consideration of the premises and mutual agreements, covenants and conditions set forth herein which shall form an integral part of this Agreement, it is hereby agreed by and amongst the parties as follows:

1. PROJECT FINANCING BY PSDF

- 1.1 (a) The **ENTITY** shall establish a dedicated organization within the utility and nominate a nodal officer of suitable rank, for speedy execution of the project(s) and shall be responsible for compliance of the provisions as stipulated. The nodal officer will also arrange to expeditiously get the relevant clearance/orders from **PDD Ladakh**. The **ENTITY** will assign utmost priority to the works to be executed and help in the speedy execution of the project(s) by issuing necessary orders to avoid delay
- (b) Expenditure details will also be submitted by **ENTITY** to Nodal Agency for release of funds against progressive reimbursement claims in the manner prescribed herein under and the detailed procedure, for release of funds as per the structured formats as may be prescribed by Nodal Agency.


सुहास दम्भाने / SUHAS DAMBHANE
महाप्रबन्धक (पी.एस.डी.एफ.) / General Manager (PSDF)
राष्ट्रीय भार प्रेषण केन्द्र / National Load Despatch Centre
पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड (पोसोको)
POWER SYSTEM OPERATION CORPORATION LTD. (POSOCO)
गे-9, कतुब इस्टीट्यूशनल एरिया, कटवारिया सड़क, नई दिल्ली-110
C-9, Katwariya Institutional Area, Katwaria Sarai, New Delhi-11



- (c) The ENTITY responsible for the execution of the scheme shall ensure timely submission of Project Status reports to NLDC along with the request for disbursement of funds from PSDF in accordance with the Detailed Procedure.
- (d) Periodic review and monitoring of the physical and financial progress of the project(s) shall also be taken up by the Monitoring Committee of PSDF.
- (e) Any expenditure that is not directly and exclusively spent towards implementing the scheme shall not be counted as eligible expenditure.

1.2 Mode of Release of Funds

The release of funds from PSDF will be regulated as per the extant instructions of the Ministry of Finance. The funds for implementation of the project(s) shall be released by the Ministry of Power, Government of India, to the ENTITY through the Nodal Agency and in the manner as indicated below:

- a) **First stage:** 10% of the total sanctioned grant (excluding the grant towards AMC charges) within 15 days from the date of signing of the Agreement and fulfilment of all requirements and submission of documents.
- b) **Second Stage:** 20% of the total sanctioned grant (excluding the grant towards AMC charges) shall be released in accordance with the award of contracts placed, in max. no. of 05 tranches and fulfilment of all requirements, and submission of documents, including requisite legal formalities by **PDD Ladakh** and **ENTITY** as per sanction letter of the project. The release of 1st tranche would be after the Letter of Award is issued by the **ENTITY** and an agreement has been signed with the contractor.
- c) **Third Intermediate Stage(s)** - 60% of the total sanctioned grant (excluding the grant towards AMC charges) within 15 days from the date of submitting the expenditure details to the Nodal Agency by **ENTITY**, after utilizing the fund received in the first and second instalment.
- d) **Final Stage-** Balance 10% of the total sanctioned grant (excluding the grant towards AMC charges) within 30 days from the date of submitting the expenditure details and completion certificate to the Nodal Agency by **ENTITY**.
- e) Final completed cost shall be submitted by **ENTITY** to Nodal Agency based on the audited account.
- f) The funds for the Annual Maintenance Contract portion, out of the Total sanctioned PSDF grant, shall be released by the Ministry of Power, Government of India, to the **ENTITY** through the Nodal Agency and in the manner as indicated below:

Payment Stage	% of PSDF Grant sanctioned towards AMC portion to be released every year in advance	Remarks
1 st Stage	14%	Within 15 days from the date of signing of the AMC Contract Agreement between PDD Ladakh and the Contractor. (for AMC during

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 पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड (पी.सोको)
 POWER SYSTEM OPERATION CORPORATION LTD. (PSOCO)
 पी-9, कुतुब इन्स्टीट्यूशनल एरिया, कान्हागिरा सराय, नई दिल्ली-16
 P-9, Qutab Institutional Area, Kanhanra Sarai, New Delhi-16





		Defect Liability Period of one year)
2 nd Stage	14%	For 2 nd year AMC
3 rd Stage	14%	For 3 rd year AMC
4 th Stage	14%	For 4 th year AMC
5 th Stage	14%	For 5 th year AMC
6 th Stage	14%	For 6 th year AMC
7 th Stage (Final)	16%	Balance of Sanctioned PSDF Grant towards AMC portion, to be released within 30 Days from the date of submitting the expenditure details and completion certificate to the Nodal Agency by ENTITY .
Final completed Cost for the AMC portion shall be submitted by ENTITY to Nodal Agency based on the audited account after completion of AMC period.		

1.3 TAXED AND DUTIES

All statutory taxes/levies, duties, cess, entry tax or any kind of imposition(s) whatsoever imposed/charged by any Government (Central/State) and/or any other local bodies/authorities on the **PDD LADAKH** and/or its contractors in respect of the execution of the project(s) covered under this Agreement and Service Tax on service charge (including any variation thereof), not covered in the estimated cost of the project shall be paid by the **PDD LADAKH**.

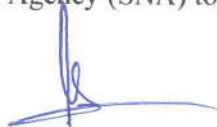
2. UTILIZATION CERTIFICATE

ENTITY shall provide utilization certificate(s) for the funds released by the Ministry of Power for the implementation of the project(s) in the manner prescribed by the **Nodal Agency**.

3. CONSTRUCTION/IMPLELMENTATION

- 3.1 **ENTITY** shall make all possible efforts to complete the project(s) within the approved time frame starting from the date of release of the First Installment of funds by the Ministry of Power, Government of India to the **ENTITY**.
- 3.2 **ENTITY** and **PDD Ladakh** shall specify quarterly milestones, and progress shall be reviewed with reference to these milestones by the Monitoring Committee.
- 3.3 The best cost and quality control measures shall be enforced by **ENTITY** during implementation through appropriate management and control systems
- 3.4 The grant for the project shall be released through the Treasury Single Account (TSA) system of RBI as per the "Revised procedure for the flow of funds for Central Sector Scheme" issued by the Ministry of Finance, Department of Expenditure vide its OM F.No.1(18)/PFMS/FCD/2021 dated 09th March 2022. The Entity shall open a Treasury Single Account (TSA) in RBI and map the same in the Public Finance Management System (PFMS) portal as Sub-Nodal Agency (SNA) to Central Nodal Agency (CNA) for


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 महाप्रबन्धक (पी.एस.डी.एफ.) / General Manager (PSDF)
 राष्ट्रीय भार प्रेषण केन्द्र / National Load Despatch Centre
 पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड (पोसोको)
 POWER SYSTEM OPERATION CORPORATION LTD. (POSOCO)
 को-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-16
 Co-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-11





the PSDF scheme.

4. TAKING-OVER OF THE PROJECT

PDD Ladakh shall ensure taking over the completed project after commissioning (in part or full, as the case may be), **PDD Ladakh** shall be responsible for the operation & maintenance of the project thereafter (in part or full, as the case may be) at their own expenses, except for the portion of sanctioned PSDF grant for Annual Maintenance Contract.

5. ARBITRATION

Any difference or dispute between the parties arising out of or in connection with this project shall be discussed and settled amicably amongst the parties. In the event of non-settlement of the difference or dispute within sixty (60) days, the same shall be referred to the Secretary to the Government of India in the Ministry of Power, for arbitration and whose decision shall be final and binding on the parties to this Agreement.

6. FORCE MAJEURE

The parties shall ensure due compliance with the terms of this Agreement. However, no party shall be liable for any claim for any loss or damage whatsoever arising out of failure to carry out the terms of the Agreement to the extent that such a failure is due to force majeure events such as fire, rebellion, mutiny, civil commotion, riot, strike, lock-out forces of nature, accident, act of God and any other reason beyond the control of concerned party. But, any party claiming the benefit of this clause shall satisfy the other party of the existence of such as event and give written notice of 15 days to the other party to this effect. The services covered under the agreement shall be started as soon as practicable by the parties concerned after such eventuality as come to an end or ceased to exist.

7. IMPLEMENTATION OF THE AGREEMENT

All discretions to be exercised and directions, approvals, consents and notices to be given and actions to be taken under these presents, unless otherwise expressly provided herein, shall be exercised and given by the signatories to this Agreement or by the Authorized representative(s) that each party may nominate on this behalf and notify in writing to the other party. Any other nomination of Authorized representative(s) and/or changes in a designation shall be informed likewise in writing to/by ENTITY and Nodal Agency within one month of the signing of the Agreement. Any changes in designations / registered office address shall be intimated in writing to all concerned parties.

8. NOTICE

All notices required or referred to under this Agreement, shall be in writing and signed by the respective authorized signatories of the parties mentioned herein above unless otherwise notified. Each such notice shall be deemed to have been duly given if delivered or served by registered mail, speed post of Department of Posts or by Courier service with an acknowledgement due to the other parties.

9. TERMINATION

This agreement shall remain valid unless terminated with the consent of all the Parties.

सुहास ईश्वर लाम्बा
महाप्रबन्धक (पी.एस.डी.एफ.) / General Manager (PSDF)
राष्ट्रीय भार प्रेषण केन्द्र / National Load Despatch Centre
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9-9, Outub Institutional Area, Katwaria Sarai, New Delhi-110

10. The competent Courts of Delhi shall have exclusive jurisdiction in all matters relating to or arising out under these present.

IN WITNESS WHEREOF the parties have executed these presents through their Authorized Representatives at New Delhi.


सुहास डंगरे / SUHAS DAMHARE
महाप्रबन्धक (पी.एस.डी.एफ.) / General Manager (PSDF)
राष्ट्रीय भार प्रेषण केन्द्र / National Load Despatch Centre
पावर सिस्टम ऑपरेटर लिमिटेड (पोसोको)
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B-9, Qutab Institutional Katwaria Sarai, New Delhi-16


For and on behalf of
Chief Engineer,
Distribution PDD,
UT-Ladakh (Kargil)
PDD,
UT of Ladakh


For and on behalf of
महानिरीक्षक (ग्रीड नियंत्रण एवं वितरण) / DGM (GA&C)
उप महाप्रबन्धक (ग्रीड नियंत्रण एवं वितरण) ऑफ इंडिया लिमिटेड
पावर ग्रीड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Ltd.
(भारत सरकार का उद्यम) / (A Govt. of India Enterprise)
फ्लॉट नं. 42, सेक्टर-44, मुल्ताम-122001 (हरियाणा)
Plot No. 42, Sector-44, Gurgaon-122001 (Haryana)

Witness 1 

टी. शीमेश / T. SHEEMESH
प्रबंधक / Manager
राष्ट्रीय भार प्रेषण केन्द्र / National Load Despatch Centre
ग्रीड कंट्रोलर ऑफ इंडिया लिमिटेड (ग्रीड-इंडिया)
GRID CONTROLLER OF INDIA LIMITED (GRID-INDIA)
(भारत सरकार का उद्यम) / (A Government of India Enterprise)
formerly Power System Operation Corporation Limited (POSOCO)
बी-9, कुतब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-16
B-9, Qutab Institutional Katwaria Sarai, New Delhi-16

Witness 1 

Witness 2 

Witness 1 

Witness 2 

MEMORANDUM OF UNDERSTANDING
Between
Constituents of North Eastern Region and POWERGRID
For
Implementation of Unified Load Despatch and Communication
(ULDC) Phase–III (SCADA/EMS upgradation Project)
by
POWERGRID
in
North Eastern Region

MEMORANDUM OF UNDERSTANDING BETWEEN NORTH EASTERN REGION
CONSTITUENTS (NER SLDCs) AND POWER GRID CORPORATION OF INDIA
LTD. (POWERGRID).

For the

**Implementation of Unified Load Despatch and Communication
(ULDC) Phase–III (SCADA/EMS upgradation Project)**

IN

NORTH EASTERN REGION

This Memorandum of Understanding signed between Power Grid Corporation of India Limited, a Public Sector Undertaking and incorporated as a company under the companies Act 1956, on 23rd October 1989, hereinafter referred to as “**POWERGRID**” and the Constituents of North Eastern Region , namely Department of Power Arunachal Pradesh (DoPAP), Department of Power Nagaland (DoPN), Assam Electricity Grid Corporation Limited (AEGCL), Meghalaya Electricity Power Transmission Corporation Limited (MEPTCL), Tripura Power Transmission Limited (TPTL), Power and Electricity Department, Gov of Mizoram and Department of power, Govt of Manipur hereinafter referred to collectively as ‘**Constituents**’ of North Eastern Region.

Whereas the Constituents of the North Eastern Region are desirous for the upgradation/replacement of their SCADA/EMS Systems under the North Eastern Region Unified Load Despatch Centre -III Scheme and have approached POWERGRID for implementation of the SCADA/EMS Load Despatch centres for them under Regulated Tariff Mechanism of CERC.

Whereas POWERGRID and the Constituents have agreed in the Special NERPC meeting Dated: 30.01.2026, that the Implementation of Unified Load Despatch and Communication (ULDC) Phase–III (SCADA/EMS upgradation Project) for North Eastern Region shall be done by POWERGRID.

For the purpose of this MOU, terms used herein shall unless repugnant to the context thereof shall have the meaning assigned to them as under:

1. DEFINITIONS

1.1. "**MOU**" shall mean the Memorandum of Understanding herein containing the Terms & Conditions set forth & agreed therein, including all other documents expressly annexed thereto or incorporated therein.

1.2. "**Project**" shall mean and comprise the following:

- i) Upgradation/Replacement of existing SCADA/EMS system at Main SLDC / Back-up SLDC and Sub-LDCs including Supply of RTUs, other supporting components (wherever applicable), Supply of UPS, ACDB, DCPS, Battery sets and DG Sets and Supply of Cyber security hardware and IT infrastructure hardware and software
- ii) Integration of existing and future RTUs (as per agreed sizing requirements) with Main & Back up SLDC Control Centres.
- iii) Integration of Main & Back up Control Centres of SLDCs with Main & Backup Control Centres of RLDC.

1.3. "**Bid Documents**" shall mean the tender documents prepared by POWERGRID consisting of technical specifications and other terms & conditions of contract (GCC, SCC, etc.) pursuant to which POWERGRID shall invite a tender for procurement of goods and services for the project.

1.4. "**CERC**" shall mean Central Electricity Regulatory Commission, as referred to in Section: 76(1) of the Electricity Act, 2003 of India.

1.5. "**DOC**" shall mean Date of Commercial Operation declared by POWERGRID after Commissioning of the Project/element as the case may be and duly approved by CERC.

1.6. "**Contractor**" shall mean the Bidder whose bid is accepted by POWERGRID for the award of Contract for the total work or any part of the work of the Project resulting in a Contract and shall include such Contractor's legal representatives, successors and permitted assigns.

1.7. **"Nodal Officers"** shall mean the official nominated by the POWERGRID and the Constituents in writing, who shall be responsible for co-ordination of all activities concerning the implementation of the project.

1.8. **"System/Equipment/material"** shall mean the System/Equipment/material procured by POWERGRID for the respective SLDC system under this project. It shall comprise of the SCADA/EMS system, associated IT systems, Cyber security system, Power supply equipment, RTUs, etc.

1.9. **"Site"** shall mean the location identified by the Constituents at which the work under the project is to be executed, which may be allocated by the Constituents, to the Contractor in performance of their work under this MOU.

1.10. **"Tariff Regulations"** shall mean CERC (Terms and Conditions of Tariff) Regulations, 2024 and its amendments thereof or any subsequent enactment thereof as notified by CERC.

1.11. **"Unrecovered net Project Cost"** shall mean cost equal to the gross block minus recovered depreciation through transmission tariff paid by Constituents.

1.12. The words/expressions used in this MOU unless repugnant to the context shall have the same meaning assigned to them by Sharing Regulations, Tariff Regulations and The Electricity Act, 2003 (of India) and the rules framed there under as may be amended from time to time. Words denoting singular only shall also include plural and vice-versa, where the context so desire.

'POWERGRID', and the 'Constituents' have agreed as under for the project of **Implementation of Unified Load Despatch and Communication (ULDC) Phase–III (SCADA/EMS upgradation Project).**

2. SCOPE OF WORK AND RESPONSIBILITIES

POWERGRID shall be responsible for the overall planning, design, engineering, and procurement of SCADA/EMS equipment/system, overall coordination of erection, testing and commissioning of Load Despatch centre as unified scheme.

The Constituents will be responsible for providing infrastructure and certain other facilities such as land, building, civil works, air-conditioning, power supply,

establishment etc. for the replacement/upgradation of Load Despatch Centre in their respective states.

The project shall be awarded to a Contractor through POWERGRID's Bidding process. The project has a provision of a maintenance contract, wherein the Contractor shall maintain the supplied systems for a period of 7 years (1 year defect liability period (DLP) + 6 years AMC). Further, there is a provision in the Contract that the Constituents at their own discretion may extend the duration of maintenance period for up to 2 years at the same rates, terms and conditions in the contract.

There shall be three different contracts formed. First Contract shall be for Supply of Goods, Second Contract shall be for Supply of Services i.e. Freight & Insurance, Installation, testing and commissioning. The Third contract shall be for supply of maintenance services after commissioning and operational acceptance of the system. The third contract shall be signed between the Constituents and the Contractor for their respective states. Also, the execution of the third contract shall be the responsibility of the Constituents.

The broad scope to be rendered by POWERGRID for execution of the project under this MOU will be as under

- 2.1. Preparation of all Bid documents including technical specifications, Bill of Quantity (BoQ), Qualifying Requirements, General and Special contract, terms and conditions, invitation of tenders, evaluation of bids, award of contracts for supply, erection, testing and commissioning of SCADA/EMS system equipment's execution of contracts, settlement of contractual issues, insurance claims in respect of contracts placed by POWERGRID.
- 2.2. Preparation of common bid document for all SLDCs for award & execution including maintenance of SCADA/EMS systems in a unified manner.
- 2.3. Evaluation of bids including recommendation of award, post-award discussions, preparation of three NOAs (Notification of Award), and preparation of three Contract agreements.
- 2.4. The placement of NOAs on the Contractor for all the three contracts shall be done by POWERGRID. The contract agreement for the First and Second Contract shall be signed between the Contractor and POWERGRID whereas the

Third contract agreement shall be signed between the Contractor and the Constituents.

- 2.5. Design & Engineering of SCADA/EMS system duly considering the requirements along with expansion requirements of the Constituents.
- 2.6. Arranging training for engineers of Constituents.
- 2.7. Coordinate installation, testing & commissioning of all the equipment procured by POWERGRID in this project at State Load Despatch Centres, Sub-Load dispatch centre and sub-stations of the Constituents.
- 2.8. Final acceptance/clearance of Factory test reports and Issuance of dispatch clearances (CIP/MICC)
- 2.9. Arranging despatch of equipment to State Load Despatch Centres, Sub-Load dispatch Centre, and substations of various Constituents as per scope.
- 2.10. Association in Site installation, Integration, commissioning, if required, to address any technical matter and support the Constituents.
- 2.11. Association in Site Acceptance Tests, if required, to address any technical matter and support the Constituents.
- 2.12. Final acceptance/clearance of Site acceptance test reports and Issuance of Operational Acceptance/Taking over to the Contractor.
- 2.13. Issuance of post-contract amendment (if any) based on site conditions and or specific requirements raised by the Constituents during execution, subject to feasibility as per Contractual provisions.
- 2.14. Project Management including overall coordination, planning, guidance and supervision for implementation of the scheme.

3. SCOPE OF WORK AND RESPONSIBILITIES OF THE CONSTITUENTS

The scope of work and responsibilities of the Constituents are as follows:

- 3.1. Construction/Renovation of building for State Load Despatch Centre, air-conditioning, power supply arrangement and all related works pertaining to establishment of Load Despatch Centres at State/ Constituent level.
- 3.2. Minor civil works in existing buildings for enabling cable laying, Room partitioning.
- 3.3. Ensuring timely availability of infrastructure (Building/rooms), Air conditioning, Firefighting, Power Supply etc.

- 3.4. Timely furnishing of required information/data to POWERGRID for enabling expeditious updation of composite project report and design and engineering of the Unified Scheme.
- 3.5. Providing data input for Design and engineering work and associating during Physical survey, including CRP scheme, cable trench/duct, Layouts, Electrical drawings, etc.
- 3.6. Obtaining all statutory clearances from Authorities/Government including issue of necessary notification(s).
- 3.7. Providing smooth access to POWERGRID/Contractor involved in implementation, to all sub-stations/Control centres required to be visited during project implementation.
- 3.8. Association in witnessing of type testing and functional testing of equipment/materials at factory/facility of Contractor:-
- 3.9. Receipt and proper storage of equipment pertaining to their State/System.
- 3.10. Verification and inspection of equipment on receipt (during unloading and joint verification stage) and reporting damages, shortages etc. to POWERGRID and providing storage space for storage of equipment.
- 3.11. Arranging necessary shut down/isolation etc. for transmission lines, sub-stations generating units, whenever required, for erection, installation, testing and commissioning of equipment/system.
- 3.12. Supervision of installation, testing and commissioning of all the equipment at State Load Despatch Centres, Sub-LDCs and sub-stations as applicable.
- 3.13. Participating in installation, commissioning, Signals Validation, Database & Displays validation, System Availability Tests.
- 3.14. Taking Over of the system from POWERGRID for operation & maintenance. The system shall be taken over from the date of issuance of operational acceptance by POWERGRID to the contractor.
- 3.15. Operation & Maintenance of the various systems supplied under the contract from the date of taking over including the completion of one-year DLP and 6-year AMC period including extension of AMC period for 2 years, if any.

Activity wise Responsibility Matrix is provided as Annexure-A to this MOU.

4. OPERATION AND MAINTENANCE OF LOAD DESPATCH & COMMUNICATION FACILITIES

4.1 Responsibilities of POWERGRID during O&M of SLDCs

- i) Tender documents (prepared by POWERGRID) shall have provision of Annual Maintenance Contract (AMC) of project for 01(One) + 06 (Six) years including defect liability period. Also, there is a provision to extend the duration of maintenance period for up to 2 years at the same rates, terms and conditions in the contract. However, the AMC including its extension period, shall be operated by respective Constituent. POWERGRID shall issue the NOA for the third contract and provide the final Contract agreement of the third contract for signing of the Contract agreement between Constituents and the Contractor for their respective states.

4.2 Responsibilities of the Constituents during O&M of SLDCs

- i) Execution of the Maintenance Contract (AMC) including its extension period, shall be the responsibility of respective Constituent.
- ii) Operation and routine maintenance of SCADA/EMS systems supplied at Control Centres (Main, Backup and Sub-LDCs) and at substations including Auxiliary power supply systems, new RTUs, IT infrastructure and Cyber security system under the scheme as per the responsibility in terms of the final Contract agreement signed between Constituents and the Contractor for their respective states/jurisdiction.
- iii) Maintaining proper operating environment (temperature, humidity, dust free, rodent protection, compatible use) for the Systems and Equipment supplied under the scheme.
- iv) Coordinate with the contractor for reporting of defects/issues, requirement of integration of new equipment/systems, database/display modification, maintain defect rectification records, calculating system availability and certifying system availability.
- v) Providing access and permission to the Contractors for preventive maintenance and AMC services.
- vi) Review and maintain the spares for the SLDCs.

vii) Avail insurance of the various System/Equipment. However, if the States desire, the LoA for insurance of the equipment may be issued by POWERGRID. Charges for this service will be paid by the State Constituents, based on actual expenses plus POWERGRID's prescribed overhead.

5. FUNDING OF SCHEME

The funding of the total cost of the Project shall be as under: -

POWERGRID will arrange funds required for procurement of Load Despatch Centre equipment, design and engineering, training, installation/erection, testing and commissioning of the scheme by suppliers required for establishment of Load Despatch facilities at state level for the Constituents.

Each constituent shall arrange funds required for the creation of infrastructural and other facilities such as land, building, civil works, staff quarters, air-conditioning, power supply arrangement, lighting, establishment, office equipment, vehicles etc. Only the SCADA/EMS system shall be supplied by POWERGRID for installation at the State Load Despatch Centres, and at the sub-stations/generating stations as may be agreed between Constituents & POWERGRID.

The Funds required for payment of Operation and Maintenance charges to the Contractor shall be arranged by the respective constituents and paid directly by them.

6. OWNERSHIP OF PROJECT:

Ownership of all the assets delivered in this project shall remain with POWERGRID till recovery of capital cost through tariff during its useful life of 07 years in terms of prevailing CERC Tariff Regulations. The constituent shall be responsible for the operation and maintenance of the system & keeping the system healthy and shall bear all costs and charges for it. However, for all cyber security compliance purposes in terms of the prevailing Rules/ Policies/ Regulations, the Constituents shall be the Responsible Entity (refer CEA cyber security guidelines, 2021). On completion of useful life, Project shall be transferred by POWERGRID to respective Constituent at the net book value. The transfer of Project shall be subject to payment of Unrecovered net Project

Cost by respective Constituent to POWERGRID. Further, Constituents shall pay all dues/ unpaid tariff including interest at the time of transfer of Project.

7. RECOVERY OF CHARGES BY POWERGRID:

POWERGRID shall implement the Project under the Regulated Tariff Mechanism (RTM) route . Terms & Conditions for the Tariff of the Project shall be as per norms specified by CERC in Tariff Regulations in vogue.

- 7.1 Post the DOCO of Project, POWERGRID shall approach CERC for tariff determination of the project and the tariff order passed by CERC will be final and binding on respective constituents.
- 7.2 The monthly bills shall be submitted by POWERGRID to Constituents through e-mail to the official e-mail address (of the official nominated under this MOU) and the official email of the Entity (DISCOMs/Beneficiary) provided by the Constituent in **Annexure-B**. The monthly bills shall be raised in the name of the entity. The Annexure-B shall be specific to each Constituent. The details in the **Annexure-B** shall include the name of the entity, share ratio in the bills, and Contact details. The date of e-mail sent to the respective officials, forwarding the bill, shall be the date of presentation of the Bill.
- 7.3 The due date for payment of bills is 45 days from the date of presentation of bill. Constituents shall be liable to pay Late Payment Surcharge (LPS) on the payment outstanding after the due date in accordance with the prevailing CERC regulations/LPS rules of MOP.
- 7.4 The Fee & Charges payable to NLDC or RLDC or SLDC, as applicable and any ULDC/Communication Charges or any other charges in accordance with CERC's Regulations and applicable Laws etc. shall be the responsibility of the Constituents. Further, License fee, Publication fee and filing fee shall be paid separately by Constituents to POWERGRID.
- 7.5 Applicable statutory payments/ taxes, duties, surcharge, cess etc. on tariff payable under this MOU, if any, as determined by CERC, shall be paid separately by Constituents.
- 7.6 POWERGRID shall also recover charges from the Constituents for providing technical expertise and support service, from time to time, for carrying out major repairs/maintenance of POWERGRID supplied and owned Load Despatch Centres installed in the constituents' system. Such charges shall be based on actual expenses plus POWERGRID's prescribed overhead.

8. TIME SCHEDULE:

- 8.1. It is agreed that the start Date for the Project shall be date of Investment Approval (IA) of the Project accorded by POWERGRID management. Completion schedule shall be as per the implementation timeline provided under

1A or any date mutually agreed between Parties. The above schedule shall be subject to fulfillment of obligation on part of both the parties.

8.2. . Delay in any work will affect the completion schedule and therefore, the period of implementation of this MOU shall be deemed to have been extended to cover such delay as may occur.

8.3. If by reason of extra or additional work or any industrial dispute or any cause or causes outside of and beyond the reasonable control of POWERGRID, the work is delayed or impeded, the delayed period shall be construed as automatic time extension.

9. FACILITIES / INFORMATION TO BE PROVIDED TO “POWERGRID”

9.1 All necessary information data and facilities as may be required by POWERGRID in connection with services shall be promptly rendered by the Constituents(s) under this MOU.

9.2 The Constituents shall give their views on all matters pertaining to this project as may be referred to by POWERGRID from time to time within a reasonable time, which would normally not exceed fifteen (15) days and shall discharge faithfully all its obligations.

9.3 Any statutory clearance/Right of way, provision of space required for establishment of the control centre along with AC power source shall be arranged by the Constituents.

10.FORCE MAJEURE EVENTS

10.1 The Parties shall ensure due compliance with the terms of this MOU. However, no Party shall be liable for any claim for any loss or damage whatsoever arising out of failure to carry out the terms of the MOU to the extent that such a failure is due to events or circumstances or combination of events or circumstances including those stated below:

10.1.1 Act of God, including but not limited to drought, fire and explosion (to the extent originating from source external to the site), earthquake, landslide, flood, lightning, cyclone typhoon, tornado, any geological surprises or exceptionally adverse weather conditions, epidemic/ pandemic notified by Indian Government Instrumentality etc.; or

10.1.2 Any unlawful, unreasonable or discriminatory revocation of or delay or refusal to grant or renew any Consents, Clearance and Permits required by or from CERC, CEA or any other regulatory or governmental authority in accordance with law for the development of the Project; or

10.1.3 Acts of any Government domestic or foreign, including but not limited to war (whether declared or undeclared), invasion, blockade, embargo, revolution, riots, civil commotions, terrorist or military action; industry-wide strikes and labor disturbances etc.; or

10.1.4 Delays in obtaining Statutory clearances for implementing the Project even after joint efforts by Parties; or

10.1.5 Stay/ injunction on the Project by any district administration/ government authority/ regulatory authority/ Court of law/ NCLT or any other Tribunal / etc.

11. PROGRESS REVIEW MEETING

11.1. To review the progress of work, a quarterly review meeting shall be held at the level of Nodal officer of both the parties at mutually agreed places.

12. TERMINATION OF MOU

12.1. Generally, this MOU shall be irrevocable and shall not be terminated once executed before expiry of the term of contract.

12.2. In the event when the Parties mutually agree to terminate the MOU, on account of Force Majeure or any other reasons, the termination shall take effect from the date and time to be agreed upon mutually.

12.3. Either Party shall be entitled to terminate the MOU in case Force Majeure prolonged for a period of more than 12 months.

12.4. In case such termination is prior to commencement of commercial operation of Project, POWERGRID shall handover/surrender the Project so created on "as is where is" basis to Constituents and shall also provide to Constituents a statement (certified by POWERGRID's auditor) of the actual costs incurred for the Project. Constituents shall be liable to pay such cost to POWERGRID along with the incidental/ miscellaneous expense, if any.

12.5. In case such termination is after commencement of commercial operation of Project, Constituents shall pay POWERGRID the cost equivalent to the unrecovered net Project Cost/Depreciation along with unpaid applicable transmission tariff, if any, as on date of termination of this MOU.

13. SETTLEMENT OF DISPUTE & ARBITRATION

13.1. This MOU shall be governed by and construed in accordance with the laws of India.

13.2. The parties shall endeavor to resolve amicably, in the first instance, all disputes, controversies or differences which may arise between the Parties, out of or in relation to or in connection with the project mentioned in this MOU, or for breach thereof.

13.3. In the event, the parties are unable to resolve such dispute or difference amicably within sixty days (60) after the same has arisen then the dispute shall be referred to by either party for its resolution through AMRCD as mentioned in DPE OM No. 05/0003/2019-FTS-10937 dated 14th December 2022 and

subsequent amendments thereunder. The decision of AMRCD on the said dispute will be binding on both the parties.

13.4. Subject to the above, the courts of New Delhi shall have exclusive jurisdiction over all or any matters arising under or pertaining to this MOU.

14. THIRD PARTY DISPUTE

If any litigation/ arbitration cases crop up due to various contract orders placed by POWERGRID till the taking over of the system from POWERGRID by the Constituents, POWERGRID shall resolve the same. However, the cost of litigation or Arbitration (Arbitrator fee, Advocate fee etc.) and liability arising out of the award thereof, if any shall be borne by Constituents only.

After taking over the system from POWERGRID, if any litigation/ arbitration cases crop up, Constituents shall resolve the same. Further, the total cost of litigation or Arbitration (Arbitrator fee, Advocate fee etc.) and liability arising out of the award thereof, if any shall be borne by Constituents only.

15. AMENDMENT

This MOU may be amended or modified, if necessary, by a written instrument signed by the Parties and the same shall be considered as an integral part of this MOU.

16. EFFECTIVE DATE

This MOU shall be deemed to have come into force with effect from the date of signing of MOU. All rights, obligations and responsibilities of Constituents and POWERGRID shall be deemed to have commenced and accrued from the said date.

17. NOTICE OF DEFAULT:

Notice of default given by either Party to the other Party under this MOU shall be in writing and shall be deemed to have been duly and properly served upon the Parties hereto if delivered against acknowledgement due, addressed to the signatories to this MOU.

18. SEVERABILITY

If any provision of this MOU is held to be invalid or illegal, such provision will be struck from the MOU and the remaining provisions of this MOU shall remain in full force and effect. Further, the Parties shall endeavor to replace such provision with a valid, legally enforceable provision that reflects the original intent of the Parties.

19. SURVIVAL

Those Clauses that by its nature should survive expiration or termination of this MOU shall remain in effect after the expiration or termination of this MOU. It specifically clarified that the provisions of Clause 17 (Settlement of dispute & arbitration) shall survive expiration or termination of this MOU.

20. CORRESPONDENCE

20.1. All communications from Constituents to POWERGRID shall be addressed to the Nodal officers nominated separately by POWERGRID in writing for the purpose of this work.

20.2. All communication from POWERGRID to Constituents shall be addressed to the Nodal officers nominated separately by Constituents in writing for the purpose of this work.

IN WITNESS WHEREOF the Parties hereto have fully executed these present through their duly authorized representatives on the Day, Month and Year mentioned above.

Responsibility Matrix

Annexure-A

S.No.	Description of Activity	POWERGRID	Constituents
1.	Pre-NIT Activities		
a)	BOQ Finalization	√	*
b)	QR Requirements	√	
c)	NIT Cost Estimate	√	
d)	Technical Specifications preparation	√	*
e)	Preparation of GCC, Bid proposal sheet, SCC and other Tender documents	√	*
1.	NIT Activity	√	
a)	Publication of NIT	√	
b)	Preparation and issuance of clarifications, if any required by the Bidders	√	
c)	Pre-Bid Meeting	√	
2.	Post-NIT activities	√	
a)	Bid Opening	√	
b)	Evaluation of Bid	√	
c)	Post-Bid Discussion	√	
d)	Issue of Notification of Award	√	
e)	Signing of Contract Agreement (First and Second Contract)	√	
f)	Signing of Third Contract Agreement		√
3.	Post Award Activities		
a)	Site Survey		√
b)	Providing Inputs for designing of the system	*	√
c)	Design and Engineering Documents approval	√	
4	Type Test	√	
5	Factory Acceptance Test	√	

6	Dispatch Clearance (CIP/MICC)	√	
7	Engineering Input for Post-Contract Amendment for First and Second contract	*	√
8	Post Contract Amendment for First and Second contract	√	*
9A	Material Receipt & Joint verification		√
9B	Installation and Commissioning		√
10	Site Acceptance Test (SAT)	*	√
11	System Availability Test (SAVT)	*	√
12	Operational Acceptance/ Taking over Certificate to Contractor	√	
13	Release of Funds to POWERGRID		√
14	Payment to Contractors for first & second contract	√	
15	Payment to Contractors for third contract		√
16	Operation and maintenance of the system during AMC (one-year DLP and 6 years thereafter, including extension of AMC period, if any)		√

√ Responsible

* Association



भारत सरकार Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

एन .ई .आर. पी .सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय
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No.: NERPC/Communication/2025/ 2976 - 3021

November 10, 2025

सेवा में/To

As per list attached.

Subject: Minutes of the special meeting on AMC of SCADA/EMS system of NER states - reg.

विषय: एन.ई.आर. राज्यों की SCADA/EMS प्रणाली की AMC पर विशेष बैठक का कार्यवृत्त के संबंध में।

महोदय/महोदया,

कृपया पूर्वोक्त राज्यों में SCADA/EMS प्रणाली के वार्षिक रखरखाव अनुबंध (AMC) पर मेसर्स GE वर्नोवा की टीम के साथ 6 नवंबर, 2025 (गुरुवार) को सुबह 11:00 बजे "NERLDC कॉन्फ्रेंस हॉल", गुवाहाटी में आयोजित विशेष बैठक के कार्यवृत्त संलग्न देखें। यह कार्यवृत्त NERPC की वेबसाइट www.nerpc.gov.in पर भी उपलब्ध है।

कृपया किसी भी टिप्पणी से जल्द से जल्द NERPC को अवगत कराएँ।

Sir/Madam,

Please find enclosed herewith the minutes of the special meeting on Annual Maintenance Contract (AMC) of SCADA/EMS system in NER states with the team of M/s GE Vernova which was held on **6th November, 2025 (Thursday) at 11:00 Hrs at "NERLDC Conference Hall"**, Guwahati. The minutes is also available on the website of NERPC: www.nerpc.gov.in

Any comments/observations may kindly be communicated to NERPC at the earliest.

भवदीय / Yours faithfully,

(डी.के. बौरी / D.K Bauri)

निदेशक / Director

Distribution List:

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
5. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
6. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong – 793 001
8. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. GM (Transmission), TPTL, Bidyut Bhaban, Banamalipur, Agartala -799 001.
12. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Chief Engineer (Commercial) -cum- CEI, DoP, Govt. of Arunachal Pradesh, Itanagar- 791111
15. Engineer-in-Chief, P&E Department, Govt. of Mizoram, Aizawl – 796 001
16. Engineer-in-Chief, Department of Power, Govt. of Nagaland, Kohima – 797 001
17. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
18. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
19. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
20. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
21. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
22. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
23. Head of SLDC, MSPCL, Imphal – 795001
24. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
25. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
26. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
27. Head of SLDC, TSECL, Agartala – 799001

दिनेश बाँरी
10/11/2025

(डी.के. बाँरी / D.K Bauri)

निदेशक / Director

NORTH EASTERN REGIONAL POWER COMMITTEE

Shillong

Record of discussion of Special Meeting on “Extension of Comprehensive-AMC of SCADA/EMS System of NER States”

Date: 06.11.2025

Venue: NERLDC Conference Hall, Guwahati

A special meeting was convened under Chairmanship of Member Secretary, NERPC on 6th November, 2025 at the NERLDC Conference Hall, Guwahati, to deliberate on the extension of the Comprehensive Annual Maintenance Contract (C-AMC) for the existing SCADA/EMS System of the North Eastern Region (NER) States.

Member Secretary, NERPC, welcomed all delegates and expressed appreciation for their participation. He wishes for productive discussions on the important matter of AMC of Existing SCADA System. Representatives from all NER States attended the meeting, except Manipur participated through online mode. Officials from NERPC, NERLDC, and M/s GE Vernova T&D India Limited (GE VERNOVA INDIA) were also present.

The list of participants is attached as **Annexure-1**.

Background

During the 32nd NeTEST Meeting held on 29th August, 2025, Tripura and other North Eastern Region (NER) States expressed concern about the exorbitantly high prices of Annual Maintenance Contract (AMC) quoted by M/s GE Vernova for the existing SCADA .

Accordingly, it was decided to convene a special meeting at Guwahati with the M/s GE Vernova to resolve the pending issues pertaining to the AMC for SCADA Project of the NER States.

A. The following deliberation were made in the meeting:

1. Assam representative informed that the AMC agreement for SCADA/EMS System was pending due to observations raised by AEGCL's Law Department, primarily concerning the Bank Guarantee (BG) forfeiture

clause in the event of contract termination. Subsequently, Assam and GE Vernova India mutually agreed to revise the relevant clause and execute the contract agreement at the earliest.

Other NER States also conveyed their willingness to sign the Letter of Award (LOA) once the AMC prices are rationalized.

2. At present, AMC Offers were given by M/s GE Vernova to Meghalaya and Tripura. The quotation for Tripura State was approximately ₹3.66 crore for a two-year period with a 90% target availability, while Meghalaya's quotation was approximately ₹2.71 crore for the same period and availability.
3. Tripura sought clarification on whether 90% availability was adequate for SLDC operations and how it compared to RLDC levels. CGM (SL), NERLDC informed that to reflect higher operational sensitivity at RLDCs, RLDCs are stipulated to 99.95% availability.

Further, he communicated that presently, three regions are having GE M/s GE Vernova systems namely Southern, Western & North-Eastern Regions. The new C-AMC of M/s GE Vernova system is being done in coordination with Corporate Centre, GRID-INDIA. SRLDC had already placed the LoA for new C-AMC with a 99.95% system availability. NERLDC, also following the same pattern.

4. Forum opined that for NER SLDCs, availability up to 90% would be acceptable as it is in line with the LoA placed by SLDC-Puducherry & SLDC-Assam.
5. On a query regarding External Firewall (Check Point) replacement under AMC, GE Vernova clarified that if the hardware had reached End-of-Life (EoL), hardware upgrade would be necessary, which would involve additional cost. SLDC Assam had already communicated this issue to GE via email; GE assured that a formal reply would be provided.
6. Meghalaya raised concern regarding the reduced scope of work in the latest GE VERNOVA INDIA offer, particularly exclusion of 3rd-party audits and vulnerability mitigation.
 - GE clarified that, considering multiple audits (e.g., NCIIPC), it was not always feasible for GE to address every observation. GE's 3rd-party vulnerability assessments are conducted after apprising auditors of the legacy system limitations, whereas NCIIPC audits often apply latest technology standards.

- NERLDC informed that since OT systems are in hard isolation (no Internet exposure), penetration testing may not be required.
- SLDC Assam requested GE to comply with CSIRT-Power guidelines to the extent possible. GE VERNOVA INDIA agreed to the same.

B. Finalization of Scope of Work for NER State SLDCs

After detailed deliberation, forum agreed to adopt the Scope of work similar to Assam for their respective C-AMC of SCADA/EMS System. The Scope of Work in line with the Scope of Work of SLDC Assam was discussed and finalized as follows:

1. Deputation of 2 engineers at SLDC control centre – Agreed by NER States
2. Back-office support from Noida – Agreed by NER States
3. Control Centre Comprehensive AMC – Agreed by NER States
4. VPS – Preventive Maintenance and Fault Diagnosis only. VPS can be maintained using spares available with SLDC however the support shall not be covered under availability calculation. - Agreed by NER States

Further, informed that;

- SLDC Arunachal Pradesh stated that no VPS spares are left and SLDC Nagaland also reported exhausted spares.
 - CGM (SL), NERLDC requested all the NER SLDCs to review their existing spares. The same needs to be communicated to GE VERNOVA INDIA for replenishment.
 - MS, NERPC emphasized regular maintenance and ensuring replenishment of working spares and GE Vernova agreed to replenish VPS spares during the existing 7 + 2-year AMC period.
5. eDNA – L1 (GE) and L2 Support (Kalkitech) - Agreed by NER States
 - L-1(Basic trouble shooting, data indexing if any segment corrupted).
 - L-2 (Regeneration of license only as eDNA is obsolete declared by OEM.).
 - In case of data loss (even after data indexing), the required source code is not available as product is end of life. Data can only be retrieved through manual entry for maximum 25 points.
 6. Required Antivirus for the supplied hardware – Agreed by NER States

7. Annual Cyber Security Audit from third party agency (only Vulnerability Assessment). Vulnerability mitigation shall be limited to configuration changes only.
 - GE to look into their tied-up party (M/s AKS). CGM (SL), NERLDC requested GE VERNOVA INDIA to conduct extensive cyber security audit as NCIIPC is raising questions on the report submitted by M/s AKS. CGM (SL) also communicated that a few of the audit compliances may not be addressable due to obsolete hardware and software. MS, NERPC requested GE to do more comprehensive audit.
- Agreed by NER States
8. SAN/NAS/Tape Library storage availability shall be included in the offer however; GE shall ensure quick restoration of the SAN/NAS/Tape Library storage in case of any failure restoration will be done in maximum 90 business days. Post 90 business days SLA will be applicable.
 - GE explained that cluster configuration takes significant time; hence, the 90-day grace period has been considered. - Agreed by NER States
9. Support for existing UPS & DG will be provided however; SLA will be applicable post 90 business days will be applicable.
 - Forum advised to keep DG in Auto Mode to minimize dependency on UPS and batteries. GE VERNOVA INDIA will look into the matter - Agreed by NER States.
10. GE shall suggest remedial action in case of database errors. Integration of new stations/bays shall be the prime responsibility of Owner (SLDC). In case Owner is not able to perform the same GE shall be paid for the job as per mutually agreed rate.
 - MS, NERPC urged all SLDCs to build in-house capability in database modelling. Further, GE agreed to train SLDC personnel on RTU integration at site level through online mode.
11. Replacement of Degraded Battery Cells – Agreed by NER States.
12. Checkpoint external Firewall support limited to patch updates if available with OEM
 - If external firewalls are directly purchased by SLDCs, GE will not cover them under AMC. Technical support to be availed directly from OEM - Agreed by NER States.

All NER states agreed for all the points of the finalised Scope of work as mentioned above.

C. Discussion on Price Rationalization:

In the case of Assam, the price offered by M/s GE Vernova during November 2024 for the C-AMC was as follows:

- 1st Year: ₹ 0.96 Cr
- 2nd Year: ₹ 1.07 Cr (with 10 % year-wise escalation)
- Total: ₹ 2.04 Cr (excl. GST) / ₹ 2.41 Cr (incl. 18 % GST)

For Assam, the offer was based on a factor of 2.52 times the running AMC rate prevailing at that time.

In the current offer for Meghalaya, the total two-year cost was quoted as ₹ 2.71 Cr (excl. GST). M/s GE Vernova clarified that this quotation was derived using the same 2.52× factor with an additional 10 % escalation every year.

Further, it was informed that:

- For Meghalaya and Tripura, the existing AMC expired during March 2025.
- For Manipur, the AMC will expire on 07 November 2025.
- For Mizoram, the AMC will expire during April 2026.

MS, NERPC observed that the prices offered for Meghalaya and Tripura were higher than Assam's, despite these being smaller States with comparatively lower system demand. He emphasized that it would be difficult for the States to justify higher AMC costs and suggested the rate can be around ₹ 1.0 Cr per year for better acceptability by higher Management.

He further noted that the new SCADA/EMS project is expected to go live within two years, and there is a possibility of requiring a third-year AMC extension in the interim.

In response, M/s GE Vernova agreed for a revised common rate for other State and rationalized its offer which is given as below:

Year	Proposed Price (in ₹ Cr)	Remarks
1st Year	1.02	Comparable to Assam 2024 reference rate
2nd Year	1.12	10 % escalation on 1st year price

Total Years)	(2	2.14 Cr (excl. GST)	Common offer for all NER States each.
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After detailed deliberation, the following decisions were made :

1. Forum agreed to the revised price offer of ₹ 2.14 Cr (excl. GST) for the two-year AMC applicable to all participating NER States except Assam, Arunachal Pradesh & Nagaland.
2. M/s GE VERNOVA INDIA informed that the current C-AMC for SCADA of Arunachal Pradesh & Nagaland remains valid until 2027, and therefore, no fresh offer can be provided at this stage.
3. It was agreed that, within three months from issuance of the Minutes of the meeting, Meghalaya, Tripura, and Manipur to finalize and sign their respective AMC contracts with M/s GE Vernova. Mizoram shall follow subsequently.
4. The forum requested M/s GE Vernova to submit a detailed cost justification for the increase over the previous AMC pricing. The same has been attached as **Annexure-2**.
5. GE Vernova assured that Assam would be offered a reasonable rate for the third-year extension of its AMC when it becomes due.
6. MS, NERPC assured that the matter would be placed in the upcoming NERPC meeting to apprise higher authorities of the States.
7. Finally, the forum and NER States unanimously agreed on the rationalized scope and cost components for the two-year extended C-AMC for SCADA/EMS System. M/s GE Vernova India shall submit the revised offers accordingly, and the NER States shall proceed with signing the Letters of Award (LOAs) by taking their respective internal approvals.

The meeting concluded with a Vote of Thanks to the Chair.

Attendance list for the special meeting on AMC of SCADA/EMS system of NER states on 06-11-2025

Sl No.	Name	Designation	Organisation	e-mail	Contact
1	K.B. Jagtap	Member Secretary	NERPC		
2	D.K. Bawari	Director	NERPC		
3	V. Munecha	Director	NERPC		
4	B. Lenin	Deputy Director	NERPC		
5	Ashwin Kr. Goswami	AD-II	NERPC	ashwin.goswami@gov.in	8638966481
6	Lenin.B	DD	NERPC	lenin.cec@gov.in	8335595973
7	M.K. Udas	EE(Su)	Sr. Madhaya	ceism.sldc@madhaya.gov.in	
8	J. Rakai	AE, State	" "	ja	9402133552
9	Parik B. Chai	AE(E)	Sr. DOP & P	gesldc2021@gmail.com	9366118384
10	Nirvik Aggarwal	Prj Director	GS Varanasi	nirvik.aggarwal@gov.in	9958960584
11	Devesh Kumar	Regional Manager	" "	devesh.jin@gov.in	8826936803
12	C. Chaudhary	SE, SLD C	PRD, Mirzapur	msldc.cir@nildc.in	9862925462
13	H. Lalrustki ma	SE, SLD C	PRD, Mizoram	sldc.mizoram@nildc.in	8294899510
14	Nitin Kumar Azad	AE, SLD C	PRD, Nagaland	ti.azad@nildc.in	8974020151
15	P. Thakur	JE	SLD, Nagaland	pratik.kumar@gmail.com	7630857499
16	MEKA K. N. M.	SE	SLD, Nagaland	pratik.kumar@gmail.com	7630857499
17	SHAMPA SEN.	DEP, SLD, Tripura	TPTR.	shampa.sen@tptr.in	9436129263
18	Rupjyoti Das	SLD, AECCL	SLD, AECCL	rupjyoti.das@aegcl.co.in	9435097009
19	Nilotpal Bhattacharya	SLD, AECCL	SLD, AECCL	nilotpal.bhattacharya@aegcl.co.in	7044374443
20	Toushika Jindung	DEP, SLD, Assam	SLD, AECCL	toushika.jindung@nildc.in	9703134351
21	Arundhan Deka	CEM, SLD, Assam	SLD, AECCL	arundhan.deka@nildc.in	9435733889
22	Sayan Charya	Head, NERPC	NERPC	sayan@nildc.in	9910388011















[illegible]

572

Sakal Deep (सकल दीप)

From: Jha, Devesh (GE Vernova) <devesh.jha@gevernova.com>
Sent: 07 November 2025 10:15
To: S P Barnwal (एस पी बर्नवाल)
Cc: Sakal Deep (सकल दीप); Aggarwal, Vivek (GE Vernova)
Subject: Rate Justification for SCADA/EMS System for NER Constituents
Attachments: LoA_Order Ack.pdf

******Warning******

This email has not originated from Grid-India. Do not click on attachment or links unless sender is reliable. Malware/ Viruses can be easily transmitted via email.

Dear Sir,

Our team has been consistently maintaining the system since its procurement 11 years ago, with successful commissioning and handover to the end user in 2016-2017. While IT components typically have a lifecycle of 7–8 years, significantly shorter than OT components as per CEA guidelines (2021), the systems—owned by third-party OEMs—follow dynamic product roadmaps that generally doesn't align with OT power systems.

Maintaining these systems is inherently costly, primarily due to end-of-life challenges, continuous technology upgrades and challenging market landscapes.

The rising costs are primarily driven by escalating service maintenance agreements for third-party systems, stringent cybersecurity requirements, persistent compatibility challenges, and the ageing infrastructure that leads to frequent hardware failures and limited availability of spare parts. These pressures are further compounded by inflation and the increasing wages of skilled technical personnel

Maintenance and support (M&S) costs for such systems typically escalate by 15–20% year-over-year during the initial Annual Maintenance Contract (AMC) phase. Once the system reaches End-of-Life (EOL) or End-of-Support (EOS), these cost drivers surge significantly due to increased service complexity, limited vendor support, and higher risk of component failures.

SCADA system comprises of 3 major aspects

1. GEV proprietary software
2. 3rd Party IT infra and Software
3. Skilled resources

Points 2 and 3 are particularly significant in light of the market shifts over the past five years, driven by rapid technological evolution and increasing constraints in resource availability for maintaining ageing systems.

Furthermore, we have listed a number of major reasons for the difficulty in maintaining such legacy system.

1. Inflation and Cost Escalation

- ✓ Over time, operational costs including manpower, logistics, and infrastructure have risen due to inflation.
- ✓ Forex fluctuations as all IT parts and IT software are procured generally from International markets
- ✓ The extended term covers future years where cost escalation is expected to be higher than the original contract period.

- ✓ Supply chain is a big challenge and cost since OEM have already declared these products as EOL/ EOS and only limited distributors/ partners support these legacy product. Their spares HUB and channels are limited which increase the cost dramatically.

2. Technology Obsolescence and Upgrades

- ✓ As systems age, maintaining compatibility with evolving technologies requires additional effort and resources.
- ✓ Ensuring continued performance and reliability may involve upgrades, patches, and integration support beyond standard maintenance.

3. Extended Warranty and Risk Coverage

- ✓ The extended AMC includes continued warranty coverage, which mitigates risk for the customer.
- ✓ Older systems typically require more frequent interventions, increasing the support burden.

4. Resource Retention and Expertise

- ✓ Retaining skilled personnel familiar with the deployed system ensures continuity and quality of service.
- ✓ Long-term contracts require strategic resource planning and retention incentives.
- ✓ Skilled resource mobility has increased due to project demands and hence retaining resources for old systems is a challenge

5. Current Market scenario and rates of similar systems

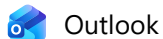
- ✓ The original procurement rates from 12 years ago do not reflect current market dynamics, technological advancements, or inflationary trends, making them unsuitable for accurate benchmarking.
- ✓ Rapid shifts in technology, vendor ecosystems, and service models over the past decade necessitate using contemporary cost structures rather than relying on legacy pricing frameworks.

Devesh Kumar

Regional Sales Manager

M +91 8826996803




Re: Urgent: Restoration of SCADA Data from Nagaland owned Substations

From NERLDC SCADA <nerldcscada@grid-india.in>

Date Wed 2026-07-01 12:41

To NERLDC SCADA <nerldcscada@grid-india.in>; sldc.ngl <sldc.ngl@gmail.com>; tiaquenger <tiaquenger@gmail.com>; pongmeine1 <pongmeine1@gmail.com>

Cc Somara Lakra (सामरा लाकड़ा) <somara.lakra@grid-india.in>; Saugato Mondal (सौगाता मंडल) <saugato@grid-india.in>; NERLDC SCADA <nerldc.scada@grid-india.in>; nerpc@ymail.com <nerpc@ymail.com>; ms-nerpc@gov.in <ms-nerpc@gov.in>; nerpc.communication@gov.in <nerpc.communication@gov.in>

Sir/Ma'am,

Gentle Reminder - 4

Please refer to the trailing email dated 18 March 2026 concerning the persistent non-availability of SCADA/Telemetry data from multiple Nagaland-owned substations. Despite repeated follow-ups and reminders, the issue remains unresolved, resulting in severely reduced grid observability and posing a significant risk to the secure and reliable operation of the power system.

The continued absence of real-time SCADA data is critically impacting grid monitoring, contingency analysis, situational awareness, and operational decision-making at NERLDC. Reliable and uninterrupted telemetry is an essential requirement for secure grid operation, and the prolonged outage of these data streams is a matter of serious concern.

In view of the above, you are once again requested to accord top priority to this matter and initiate immediate corrective actions for the restoration of both Analog and Digital SCADA data from the affected substations. The prolonged delay in restoring telemetry is unacceptable and continues to adversely affect real-time system operations.

You are requested to provide a detailed status update, including the actions taken so far and a firm timeline for complete restoration of all affected SCADA data points from Nagaland owned substations. Please feel free to reach out to us in case of any query.

Please refer Weekly Telemetry Report sent regularly on weekly basis to SLDC Nagaland for detailed SCADA points from Nagaland owned stations. Some of stations are mentioned below:

- 220kV Zhadima
- 132kV Kiphire
- 132kV Longnak
- 132kV Longleng
- 132kV Meluri
- 132kV New Secretariate
- 132kV New Zuhenboto
- 132kV Pfutsero
- 132kV Cheiphobozo

This may please be treated as URGENT.

भवदीय / Sincerely,

शक्ति मयंक सिंह / Shakti Mayank Singh

सिस्टम लॉजिस्टिक्स (एस.एल.) / System Logistics (SL)

उप-क्षेत्र प्रो. ग्रेड - इंडिया / NERLDC, GRID - INDIA

गुवाहाटी, असम - 781019 / Guwahati, Assam - 781019

(भारत सरकार का उद्यम / A Government of India Enterprise)

मो. / Ph.-+91-8299085576

Websites : <https://www.nerldc.in/> | <https://grid-india.in/en/>



From: NERLDC SCADA <nerldcscada@grid-india.in>

Sent: 10 June 2026 11:26

To: sldc.ngl <sldc.ngl@gmail.com>; tiaquenger <tiaquenger@gmail.com>; pongmeine1 <pongmeine1@gmail.com>

Cc: Somara Lakra (सामरा लोकड़ा) <somara.lakra@grid-india.in>; Saugato Mondal (सौगाता मंडल) <saugato@grid-india.in>; NERLDC SCADA <nerldc.scada@grid-india.in>; nerpc@ymail.com <nerpc@ymail.com>; ms-nerpc@gov.in <ms-nerpc@gov.in>; nerpc.communication@gov.in <nerpc.communication@gov.in>

Subject: Re: Urgent: Restoration of SCADA Data from Nagaland owned Substations

Sir/Ma'am,

Gentle Reminder - 3

Please see the trailing mail sent on 18th March 2026 regarding non-availability of SCADA/Telemetry data of multiple stations of Nagaland owned substations. This is to bring to your notice that such low availability of SCADA data has led to poor observability of grid, thereby increasing risk in real-time grid operation.

The non-availability of real-time SCADA data is significantly impacting effective grid monitoring and secure system operation. Availability of reliable and continuous SCADA telemetry is critical for real-time grid operation, contingency analysis, and decision-making by system operators.

In view of the above, you are requested to kindly treat this matter with utmost priority and take necessary actions for immediate restoration of SCADA data(Analog & Digital) from these substations.

- 220kV Zhadima
- 132kV Kiphire
- 132kV Longnak
- 132kV Longleng
- 132kV Meluri
- 132kV New Secretariate
- 132kV New Zuhenboto
- 132kV Pfutsero
- 132kV Cheiphobozo

It is once again requested to share the status of corrective actions taken along with an expected timeline for complete restoration.

This may please be treated as URGENT.

भवदीय / Sincerely,

शक्ति मयंक सिंह / Shakti Mayank Singh

सिस्टम लॉजिस्टिक्स (एस.एल.) / System Logistics (SL)

उपक्षेत्राधिकारी, ग्रिड - इंडिया / NERLDC, GRID - INDIA

गुवाहाटी, असम - 781019 / Guwahati, Assam - 781019

(भारत सरकार का उद्यम / A Government of India Enterprise)

Ph-+91-8299085576

Websites : <https://www.nerldc.in/> | <https://grid-india.in/en/>



From: NERLDC SCADA

Sent: 20 April 2026 12:45

To: sldc.ngl; tiaquenger; pongmeine1

Cc: Somara Lakra (सामरा लोकड़ा); S P Barnwal (एस पी बर्नवाल); Saugato Mondal (सौगाता मंडल); NERLDC SCADA

Subject: Re: Urgent: Restoration of SCADA Data from Nagaland owned Substations

Sir/Ma'am,

Gentle Reminder -2

It is to bring to your kind notice regarding the issue of non-availability of telemetered SCADA data from Nagaland-owned

substations. It is hampering real-time grid operations as grid visibility is reduced due to non-availability of data from substation.

In view of the above, you are requested to kindly treat this matter with utmost priority and take necessary actions for immediate restoration of SCADA data(Analog & Digital) from these substations.

The list of substations is provided below for your reference:

- 220kV Zhadima
- 132kV Kiphire
- 132kV Longnak
- 132kV Longleng
- 132kV Meluri
- 132kV New Secretariate
- 132kV New Zuhenboto
- 132kV Pfutsero
- 132kV Cheiphobozo

It is once again requested to share the status of corrective actions taken along with an expected timeline for complete restoration.

From: NERLDC SCADA

Sent: 30 March 2026 13:02

To: sldc.ngl; tiaquenger; pongmeineu1

Cc: Somara Lakra (सामरा लाकड़ा); S P Barnwal (एस पी बर्नवाल); Saugato Mondal (सौगाता मंडल); NERLDC SCADA

Subject: Re: Urgent: Restoration of SCADA Data from Nagaland owned Substations

Sir/Ma'am,

Gentle Reminder -1

Please see the trailing mail and take necessary appropriate actions at your end for timely resolution of the telemetry issues from Nagaland owned substations.

From: NERLDC SCADA

Sent: 18 March 2026 11:24

To: sldc.ngl; tiaquenger; pongmeineu1

Cc: Somara Lakra (सामरा लाकड़ा); S P Barnwal (एस पी बर्नवाल); Saugato Mondal (सौगाता मंडल); NERLDC SCADA

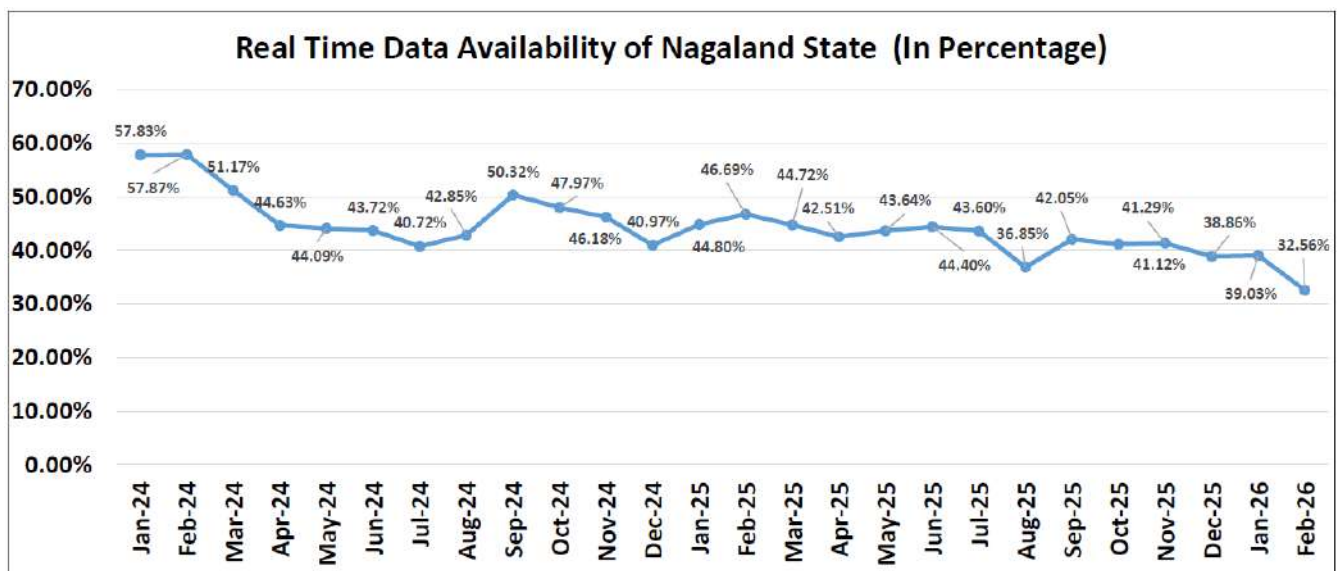
Subject: Urgent: Restoration of SCADA Data from Nagaland owned Substations

Sir/Ma'am,

This is to bring to your kind notice that SCADA data from the majority of Nagaland-owned substations is presently not reporting correctly at NERLDC. Despite regular follow-ups and weekly updates through Weekly Telemetry Availability Report and CERC Monthly Non-Availability Letter for telemetry status by the NERLDC SCADA team, the issue still persists.

As per the 30th NeTEST MoM issued on 28th January 2025, a target of 70% real-time data availability was set for Nagaland to be achieved by March 2025. However, the actual real-time data availability has shown a declining trend instead of improvement.

The picture as shown below shows the real-time data availability for Nagaland state since January 2024. It can be seen that there is a clear declining trend in real-time SCADA data availability as data availability drops from around ~58% (Jan–Feb 2024) to ~32.5% (Feb 2026) indicating a significant deterioration (~25% drop) over time.



Such low availability of SCADA data has led to poor observability of grid, thereby increasing risk in real-time grid operation. The non-availability of real-time SCADA data is significantly impacting effective grid monitoring and secure system operation. Availability of reliable and continuous SCADA telemetry is critical for real-time grid operation, contingency analysis, and decision-making by system operators.

In view of the above, you are requested to kindly treat this matter with utmost priority and take necessary actions for immediate restoration of SCADA data(Analog & Digital) from these substations.

The list of substations is provided below for your reference:

- 220kV Zhadima
- 132kV Kiphire
- 132kV Longnak
- 132kV Longleng
- 132kV Meluri
- 132kV New Secretariate
- 132kV New Zuhenboto
- 132kV Pfutsero
- 132kV Cheiphobozo
-

Apart from these, digital data from few other stations is either not reporting or reporting incorrectly.(Recent Weekly Report can be taken as reference)

Further, it is also requested to share the status of corrective actions taken along with an expected timeline for complete restoration.

This may please be treated as URGENT.

भवदीय / Sincerely,

शक्ति मयंक सिंह / Shakti Mayank Singh

सिस्टम लॉजिस्टिक्स (एस.एल.) / System Logistics (SL)

उष्णक्षेत्रीय प्रणाली, ग्रिड - इंडिया / NERLDC, GRID - INDIA

गुवाहाटी, असम - 781019 / Guwahati, Assam - 781019

(भारत सरकार का उद्यम / A Government of India Enterprise)

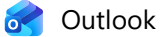
Ph:+91-8299085576

Websites : <https://www.nerlde.in/> | <https://grid-india.in/en/>



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Outlook

Re: Non-Reporting of Stations in Arunachal Pradesh – Urgent Attention Required

From NERLDC SCADA <nerldcscada@grid-india.in>
Date Mon 2026-04-20 12:39
To apslcdc.sd <apsldc.sd@gmail.com>; nicegeyi@gmail.com <nicegeyi@gmail.com>
Cc Somara Lakra (सामरा लाकड़ा) <somara.lakra@grid-india.in>; S P Barnwal (एस पी बर्नवाल) <spbarnwal@grid-india.in>; Saugato Mondal (सौगाता मंडल) <saugato@grid-india.in>; aesldc2021@gmail.com <aesldc2021@gmail.com>; eesldcitaap@gmail.com <eesldcitaap@gmail.com>; NERLDC SCADA <nerldc.scada@grid-india.in>

Sir/Ma'am,

Gentle Reminder -2

Please see the trailing mail and take necessary appropriate actions at your end for timely resolution of the telemetry issues from Arunachal Pradesh owned substations.

भवदीय /Regards,

सुबल दास/ Subal Das

सिस्टम लॉजिस्टिक्स (एस.एल.) / System Logistics (SL)

उ.पू.क्षे.भा.प्रे.के. , शिलांग /North Eastern Regional Load Despatch Center, Shillong

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड (ग्रिड-इंडिया)

Grid Controller of India Limited (GRID-INDIA)

Websites : <https://www.nerldc.in/> | <https://grid-india.in/en/>



From: NERLDC SCADA
Sent: 02 April 2026 12:13
To: apslcdc.sd; nicegeyi@gmail.com
Cc: Somara Lakra (सामरा लाकड़ा); S P Barnwal (एस पी बर्नवाल); Saugato Mondal (सौगाता मंडल); aesldc2021@gmail.com; eesldcitaap@gmail.com; NERLDC SCADA
Subject: Re: Non-Reporting of Stations in Arunachal Pradesh – Urgent Attention Required

Sir/Ma'am,

Gentle Reminder -1

Please see the trailing mail and take necessary appropriate actions at your end for timely resolution of the telemetry issues from Arunachal Pradesh owned substations.

From: NERLDC SCADA
Sent: 18 March 2026 10:47
To: apslcdc.sd; nicegeyi@gmail.com
Cc: Somara Lakra (सामरा लाकड़ा); S P Barnwal (एस पी बर्नवाल); Saugato Mondal (सौगाता मंडल); aesldc2021@gmail.com; eesldcitaap@gmail.com; NERLDC SCADA
Subject: Non-Reporting of Stations in Arunachal Pradesh – Urgent Attention Required

Dear Sir/Madam,

It has been observed that the following stations in Arunachal Pradesh are currently not reporting to NERLDC:

- Holongi
- Bhalukong

The non-reporting of these stations is a matter of serious concern, as it is impacting the data availability of Arunachal Pradesh, which is very critical for real-time system operation and monitoring.

You are requested to kindly look into the issue on priority and take necessary corrective actions to restore the data at the earliest. Additionally, please share the root cause of the issue along with the expected timeline for restoration.

Timely resolution of this matter is highly critical for ensuring reliable system operation.

भवदीय /Regards,

सुबल दास/ Subal Das

सिस्टम लॉजिस्टिक्स (एस.एल.) / System Logistics (SL)

उ.पू.क्षे.भा.प्रे.कें. , शिलांग /North Eastern Regional Load Despatch Center, Shillong

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड (ग्रिड-इंडिया)

Grid Controller of India Limited (GRID-INDIA)

Websites : <https://www.nerlhc.in/> | <https://grid-india.in/en/>



Follow Grid-India on:



Fw: Non-Reporting of Stations in Arunachal Pradesh – Urgent Attention Required

From: NERLDC SCADA <nerldcscada@grid-india.in>
Date: Wed 2026-07-01 16:37
To: NERLDC SCADA <nerldc.scada@grid-india.in>

From: NERLDC SCADA <nerldcscada@grid-india.in>
Sent: Wednesday, July 1, 2026 10:25 AM
To: apslcdc.sd <apsldc.sd@gmail.com>; nicegeyi@gmail.com <nicegeyi@gmail.com>
Cc: Somara Lakra (सामरा लोकड़ा) <somara.lakra@grid-india.in>; Saugato Mondal (सौगाता मंडल) <saugato@grid-india.in>; aesldc2021@gmail.com <aesldc2021@gmail.com>; eesldcitaap@gmail.com <eesldcitaap@gmail.com>; NERLDC Control Room <nerldccr@grid-india.in>
Subject: Re: Non-Reporting of Stations in Arunachal Pradesh – Urgent Attention Required

Dear Sir/Madam,

It has been observed that the following stations in Arunachal Pradesh are currently not reporting to NERLDC:

- Napit
- Seppa
- Lekhi
- Along

The non-reporting of these stations is a matter of serious concern, as it is impacting the data availability of Arunachal Pradesh, which is critical for real-time system operation and monitoring. You are also requested to look into the issue on priority and take necessary corrective actions for restoration of data.

Timely resolution of this matter is highly critical for ensuring reliable system operation.

भवदीय /Regards,
सुबल दास/ Subal Das
सिस्टम लॉजिस्टिक्स (एस.एल.) / System Logistics (SL)
उ.पू.क्षे.भा.प्रे.कें. , शिलांग /North Eastern Regional Load Despatch Center, Shillong
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड (ग्रिड-इंडिया)
Grid Controller of India Limited (GRID-INDIA)

Websites : <https://www.nerldc.in/> | <https://grid-india.in/en/>



From: NERLDC SCADA
Sent: Monday, June 1, 2026 3:04 PM
To: apslcdc.sd <apsldc.sd@gmail.com>; nicegeyi@gmail.com <nicegeyi@gmail.com>
Cc: Somara Lakra (सामरा लोकड़ा) <somara.lakra@grid-india.in>; Saugato Mondal (सौगाता मंडल) <saugato@grid-india.in>; aesldc2021@gmail.com <aesldc2021@gmail.com>; eesldcitaap@gmail.com <eesldcitaap@gmail.com>; NERLDC SCADA <nerldc.scada@grid-india.in>
Subject: Non-Reporting of Stations in Arunachal Pradesh – Urgent Attention Required

Dear Sir/Madam,

It has been observed that the following stations in Arunachal Pradesh are currently not reporting to NERLDC:

- Napit

- Niglok
- Pasighat
- Along

The non-reporting of these stations is a matter of serious concern, as it is impacting the data availability of Arunachal Pradesh, which is critical for real-time system operation and monitoring.

As per available information, there is a fiber break in the Along–Pasighat section. You are requested to kindly identify the exact fiber break location and restore the communication link at the earliest possible.

You are also requested to look into the issue on priority and take necessary corrective actions for restoration of data.

Timely resolution of this matter is highly critical for ensuring reliable system operation.

भवदीय /Regards,

सुबल दास/ Subal Das

सिस्टम लॉजिस्टिक्स (एस.एल.) / System Logistics (SL)

उ.पू.क्षे.भा.प्रे.कें. , शिलांग /North Eastern Regional Load Despatch Center, Shillong

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड (ग्रिड-इंडिया)

Grid Controller of India Limited (GRID-INDIA)

Websites : <https://www.nerlhc.in/> | <https://grid-india.in/en/>





भारत सरकार Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

एन .ई .आर. पी .सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय
NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

SPEED POST/FAX

Ph : 0364-2534039

Fax: 0364-2534040

email: nerpc@ymail.com

website: www.nerpc.gov.in

No.: NERPC/Communication/2026/ 3780-3821

February 04, 2026

सेवा में/To

As per list attached.**Subject: Minutes of the special meeting on AMC of SAMAST system of NER states - reg.****विषय: NER राज्यों के SAMAST सिस्टम के AMC पर विशेष बैठक का कार्यवृत्त - संबंध में।**

महोदय/महोदया,

कृपया पूर्वोत्तर राज्यों में SAMAST प्रणाली के वार्षिक रखरखाव अनुबंध (AMC) पर हुई स्पेशल मीटिंग का मिनट्स अटैच है, जो 12 जनवरी, 2026 (शुक्रवार) को 11:00 बजे NERLDC कॉन्फ्रेंस हॉल, गुवाहाटी में हुई थी। मिनट्स NERPC की वेबसाइट: www.nerpc.gov.in पर भी उपलब्ध है।

कोई भी कमेंट/सुझाव कृपया जल्द से जल्द NERPC को बताएं।

Sir/Madam,

Please find enclosed herewith the minutes of the special meeting on Annual Maintenance Contract (AMC) of SAMAST system in NER states which was held at NERLDC Conference Hall, Guwahati on **30th January, 2026 (Friday) at 11:00 Hrs.** The minutes is also available on the website of NERPC: www.nerpc.gov.in

Any comments/observations may kindly be communicated to NERPC at the earliest.

भवदीय / Yours faithfully,

(डी.के. बौरी /D.K Bauri)

निदेशक / Director

Encl: As above

Distribution List:

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
5. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
6. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong – 793 001
8. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. GM (Transmission), TPTL, Bidyut Bhaban, Banamalipur, Agartala -799 001.
12. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Chief Engineer (Commercial) -cum- CEI, DoP, Govt. of Arunachal Pradesh, Itanagar- 791111
15. Engineer-in-Chief, P&E Department, Govt. of Mizoram, Aizawl – 796 001
16. Engineer-in-Chief, Department of Power, Govt. of Nagaland, Kohima – 797 001
17. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
18. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
19. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
20. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
21. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
22. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
23. Head of SLDC, MSPCL, Imphal – 795001
24. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
25. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
26. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
27. Head of SLDC, TSECL, Agartala – 799001
38. ED-Grid India, Kahilipara,Guwahati-781034
39. CGM(Logistics),Grid India, Kahilipara,Guwahati-781034
40. M/s GENUS
41. M/s PwC
42. M/s Infotek

दिनांक 04/11/2026

(डी.के. बोरी /D.K Bauri)
निदेशक / Director



सत्यमेव जयते

Government of India

Ministry of Power

North Eastern Regional Power Committee

Lapalang, Shillong- 793006

**Minutes of Special Meeting on AMC of SAMAST system for
NER States held on 30/01/2026 (Friday) at NERLDC
Conference Room, Guwahati.**

A special meeting to discuss the AMC of SAMAST system (software, hardware and metering part) for the North Eastern states was held on **30/01/2026 (Friday) at 11:00 hours** under the Chairmanship of Member Secretary, NERPC. The meeting was attended by representatives from all the North Eastern states, representatives from M/s PwC, M/s Infotek and M/s Genus, NERLDC and NERPC.

Member Secretary, NERPC welcomed all the delegates and briefed the agenda of the meeting.

Deliberation:

M/s PwC vide letter no. PwC/NERPC/NER-SAMAST/2025-26/008 dated NIL has shared the price quote for AMC of SAMAST software for North Eastern states (except Assam) for 3 years. M/s PwC has quoted the following price:

For all the seven modules of SAMAST software

Rs. 65,00,000/annum/state (exclusive of GST)

Rs. 76,70,000/annum/state (inclusive of GST)

For a 3 year period, the cost implication for each state shall be Rs. 1.95 crore (exclusive of GST) and Rs. 2.30 crore (inclusive of GST).

The forum impressed for a 3+2(extended) year AMC offer for the software part of SAMAST system from M/s PwC.

M/s PwC offered a flat 7% increment in AMC for the additional 2 years(extended period).

After detailed deliberation, M/s PwC agreed for AMC of the additional two (2) (extended) years with flat 5% increment on the submitted offer. The financial implication for the entire period of 3+2(extended) years is as summarized below:

Sl No.	Year	Cost each year (exclusive of GST)	Cost each year (inclusive of GST at prevailing rate)
1	Year-1	Rs. 65,00,000/annum/state	Rs. 76,70,000/annum/state
2	Year-2	Rs. 65,00,000/annum/state	Rs. 76,70,000/annum/state
3	Year-3	Rs. 65,00,000/annum/state	Rs. 76,70,000/annum/state
4	Year-4	Rs. 68,25,000/annum/state	Rs. 80,53,500/annum/state
5	Year-5	Rs. 68,25,000/annum/state	Rs. 80,53,500/annum/state

The forum agreed to the above mentioned budgetary offer from M/s PwC for software part of SAMAST system for NER.

The forum further agreed upon the optional components which were included in the budgetary offer from M/s PwC as follows:

1. On site on demand 6 days training for Rs. 2.124 lakhs (inclusive of GST at prevailing rate).
2. Expert site visit charges on man day rate basis at Rs. 35,400 (inclusive of GST at prevailing rate)

The optional components shall be charged upon if only availed by the respective states at their own discretion.

The forum noted that a capping of 10 minor modifications per annum per state during the AMC period of 3+2 years shall remain valid and any work

after exhaustion of the aforementioned capping shall be charged on man day basis rate.

M/s PwC has agreed to do minor software modifications to incorporate new regulations/guidelines which have been effected during the lapsed period of 1-2 years without AMC support for all NER states without any additional cost. M/s PwC further agreed to do API integration of new Grid India WBES application with SAMAST scheduling for all NER states except Manipur at no additional cost.

The forum agreed that AMC for SAMAST software for NER would come into effect post completion of the above mentioned assurances from M/s PwC.

On query, M/s PwC apprised the forum that IT/cyber security audits for SAMAST IT system shall be done by M/s PwC as per the extant regulations and VAPT shall be a part of the audit. M/s PwC will be responsible for compliance of the cyber security audit observations for SAMAST IT system.

Decision:

The forum agreed to the price as mentioned above and conditions quoted by M/s PwC for the software part of AMC of SAMAST for NER states for 3+2 (extended) years. Member Secretary, NERPC suggested that NER states can issue LoA to M/s PwC for the software part of AMC of SAMAST for NER states at the earliest.

Deliberation on the revised budgetary offer from M/s Infotek for hardware part of SAMAST system:

M/s Infotek apprised the forum that the original price quote for the AMC of hardware part of NER-SAMAST system was Rs. 40,00,000 (excl. of GST) per annum per state. M/s Infotek further submitted that the revised offer is as described below:

Cost with manpower (excl. Of GST)	Cost without manpower (excl. Of GST)
Rs. 36,40,000/annum/state	Rs. 29,90,000/annum/state

After detailed deliberation, M/s Infotek offered for a reduction of 3% on the submitted budgetary offers as mentioned above with and without manpower.

The forum pressed for a 3+2(extended) year AMC offer for the hardware part of SAMAST system for NER from M/s Infotek.

M/s Infotek submitted that a 7% year-on-year increment shall be levied on the already submitted offer for the additional 2 years period.

After detailed deliberation the final negotiated cost for the additional 2 years was arrived to 5% year-on-year increment on the submitted offer.

The financial implication for the entire period of 3+2 years is as summarized below:

Sl No.	Year	Cost each year (with manpower) (excluding GST)	Cost each year (without manpower) (excluding GST)
1	Year-1	Rs. 35,30,800/annum/state	Rs. 29,00,300/annum/state
2	Year-2	Rs. 35,30,800/annum/state	Rs. 29,00,300/annum/state
3	Year-3	Rs. 35,30,800/annum/state	Rs. 29,00,300/annum/state
4	Year-4	Rs. 37,07,340/annum/state	Rs. 30,45,315/annum/state
5	Year-5	Rs. 38,92,707/annum/state	Rs. 31,97,581/annum/state

M/s Infotek further apprised the forum about offer of additional 9% discount on yearly advance payment or 4% discount on quarterly advance payments of above AMC charges. The additional discounts may be availed by the NER states during the entire 3+2 years AMC period subject to the fulfilment of the timely advance payment conditions.

Further, M/s Infotek also agreed to submit BG to the respective states in the event of any advance payment of AMC charges.

The forum agreed to the price and conditions for with and without manpower quoted by M/s Infotek for AMC of the hardware part for SAMAST system for NER states for 3+2 years. Member Secretary, NERPC suggested

that NER states can issue LoA to M/s Infotek for AMC of the hardware part of SAMAST system for NER states at the earliest

Further, M/s Kalkitech showed a presentation on AMR system and meter integration (various makes) part.

Deliberation on the revised budgetary offer from M/s Genus for metering part of SAMAST system:

M/s GENUS is yet to submit their revised budgetary offer for the AMC of metering part of SAMAST system. M/s GENUS requested the forum to finalise the scope of work for the AMC of metering part of SAMAST system after addressal of the points as raised by M/s GENUS vide email dated 13/01/2026.

Member Secretary, NERPC advised to conduct an online meeting on 6th February 2026 to finalise the scope of work for the AMC of metering part of SAMAST system.

The meeting ended with a vote of thanks to the chair.

Attendance sheet for Spl. Meeting on SAMAST AMC for NER

Sl. No.	Name	Designation	Organisation	Contact	Email	Signature
1	K. B. Jagtap	Member Secretary	NERPL			
2	Sajan George	ED, NERLDC	NERLDC			
3	D. K. Bahari	Director	NERPC	9883617236	dbahari, cea@pcc.in	
4	Sugandh Prasad Bazmwal	CGM(CSL)	NERLDC	9433041812	spbasbwal@pcc.in	
5	A. De	Dy. Director	NERPC	-	alix.exp@pcc.in	
6	Ashim Goswami	AD - II	"			
7	Puneet Budhi	AELE,	SLDC, DOPAD	9366118384	ae51dc20a1e@gmail.com	
8	H. Lakshminikun.	SE, SLDC	PRD, Mizoram	9862925462	mslde@circle.gov.in	
9	Nipin Kumar Azad	AE, SLDC	PRD, Mizoram	7085 205665	slde.mizoram@rediffmail.com	
10	Niriganka Bhuyan	AGM, SLDC Assam	AEGL	9101302011	Samud cell. slde @aeggl.in	
11	T. Jigund	AGM, SLDC	AEGL	9707134351	damud@pcc.in	
12	J. Borah	Jr. Manager	Assam, SLDC AEGL	6901458371	samast cell. slde @aeggl.in	
13	P. TIKARA Yenchunder	JE SLDC	SLDC Nagaland	897402051	TIKARA Yenchunder @aeggl.in	
14	ABDUL KASSIM	Dy. Manager	SLDC-ASSAM	9435549537	abdul.kassim@pcc.in	
15	SAKAL DEEP	Dy. Manager	NERLDC	9714528218	skdeep@pcc.in	

Attendance sheet for Spl. Meeting on SAMAST AMC for NER

Sl. No.	Name	Designation	Organisation	Contact	Email	Signature
16	SATYAMPA SEN	DCM (Commercial Affairs)	SLDC Tripura, TPTU.	9436120263	satyampa.sen@sltdc.com	Satyampa Sen
17	HANUJA S RANDEKUMAR	Manager	MSPCL, Manipal	9862398275		Hanuja S Randekumar
18	LAKSHMAN RITU	GM (Gen) Inspcl		9612882985	redut03@gmail.com	Lakshman Ritu
19	ALAKESH KOLH	AEE,	SLDC, Madhaya		alakesh.kolh@sltdc.com	Alakesh Kolh
20	D. J. LINGDOH	SE	SLDC, METCL		David.Jeremy6@gmail.com	D. J. Lingdoh
21	ARNAB PRATIM DAS	EXECUTIVE DIRECTOR	PWC	9830087831	arnab.pratim.das@pwc.com	Arnab Pratim Das
22	S. Datta	C.O.O.	Infotel Services	9830030223	spktra@infoteleservices.in	S. Datta
23	DYUTIMAN CHODHURY	DIRECTOR	PwC	9007449471	dyutiman.chodhury@pwc.com	Dyutiman Chodhury
24	Pradip Kumar Sharma	Project Manager	Genus Power	9986410588	Pradip.Sharma@genus.in	Pradip Kumar Sharma
25	SAPTARSHI DEB	Manager	Genus	8420472769	Saptarshi.Deb@genus.in	Saptarshi Deb
26	Atul Aseerkar	Director	Kaukitech	9822409675	atul.aseerkar@kaukitech.com	Atul Aseerkar
27						
28	Balaji Duraisamy	Team leader	Kaukitech	9739150735	balaji.duraisamy@kaukitech.com	Balaji Duraisamy
29						
30						
31						



भारत सरकार / Government of India
विद्युत मंत्रालय / Ministry of Power
उत्तर पूर्वी क्षेत्रीय विद्युत समिति / North Eastern Regional Power Committee
लपालांग शिलांग - 793006 / Lapalang, Shillong 793006

No. NERPC/SE(O)/OCC/517 - 543

Date: 8th May, 2026

सेवा में / To,
संलग्न सूची के अनुसार / As per list enclosed.

विषय / Sub: "एडीएमएस एएमसी से संबंधित मुद्दों पर चर्चा करने के लिए बैठक" पर बैठक का कार्यवृत्त-तत्संबंधी। / Minutes of Meeting on "Meeting to discuss ADMS AMC related issues" - reg.

सर/मैडम,
Sir/Madam,

कृपया अपनी जानकारी और आवश्यक कार्रवाई के लिए वीसी पर 5 मई 2026 को "एडीएमएस एएमसी संबंधित मुद्दों पर चर्चा करने के लिए बैठक" पर बैठक का कार्यवृत्त यहां संलग्न देखें।

Please find enclosed herewith the Minutes of Meeting on "Meeting to discuss ADMS AMC related issues" on 5th May 2026 on VC for your kind information and necessary action.

भवदीय / Yours faithfully,

कंचन चौहान
08/05/2026

(कंचन चौहान / Kanchan Chauhan)
उप निदेशक / Deputy Director
परिचालन /

Operation

Encl: As above

अभिभाषकों की सूची / List of Addressees:

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001

5. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
6. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong – 793 001
8. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. GM (Transmission), TPTL, Bidyut Bhaban, Banamalipur, Agartala -799 001.
12. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Chief Engineer (Commercial) -cum- CEI, DoP, Govt. of Arunachal Pradesh, Itanagar- 791111
15. Engineer-in-Chief, P&E Department, Govt. of Mizoram, Aizawl – 796 001
16. Engineer-in-Chief, Department of Power, Govt. of Nagaland, Kohima – 797 001
17. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
18. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
19. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
20. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
21. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
22. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
23. Head of SLDC, MSPCL, Imphal – 795001
24. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
25. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
26. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
27. Head of SLDC, TSECL, Agartala – 799001



North Eastern Regional Power Committee

Minutes of Meeting

of the meeting held for discussion on

“The ADMS AMC related issues of NER states”

Date: 5th May, 2026 (Tuesday)

Time: 11:00 Hrs.

Venue: Online

Deputy Director (Operations), NERPC welcomed all participants and then outlined the background for convening the meeting, referring to the deliberations held during the 237th OCC meeting, wherein it was emphasized that ADMS is a critical asset for managing demand during low-frequency and overdrawal conditions in the grid. She highlighted that maintaining ADMS in a healthy operational state is mandatory as per the IEGC provisions. It was further brought to notice that after main project implementation including three-year warranty support by ADMS System Vendor, Manipur, Nagaland, and Tripura have not taken the ADMS System AMC leading to significant operational concerns including Potential system degradation, Loss of real-time control capability of the SS included with ADMS System for Automatic Load Management etc.

Member Secretary, NERPC emphasized the need for periodic monitoring of ADMS status across all states and stated that in cases where ADMS is non-operational, the concerned state must take immediate corrective action, failing which the matter may be reported to the Commission. He then requested the 4 (four) States who have undertaken AMC to share their experience with the executing agency so that the forum can take as feedback and then a request can be made to the remaining States in NER to sign the AMC.

APDCL apprised that ADMS is functioning satisfactorily in Assam and currently operational in 10 substations across 17 feeders. It was informed that M/s Orbit has been maintaining proper logs and that the utility is satisfied with the performance of the agency since the operationalization of AMC in 2024. The current AMC is valid till March, 2027.

Arunachal Pradesh informed that ADMS is presently non-functional at two substations, namely Ranganadi and Nirjuli, and that the matter is being followed up with the distribution team. It was further stated that three substations were funded under PSDF and four additional substations were subsequently identified and expressed to integrate with ADMS for all seven locations. M/s Orbit is maintaining these installations and has deployed one engineer at site under a two-year AMC till March, 2028. Except for the issues mentioned, the system is functioning satisfactorily.

Meghalaya informed that the ADMS project was commissioned in 2020 and that AMC has been in place since January 2024 and the current AMC is valid till November, 2026. The system availability is approximately 98%, and the performance has been satisfactory. The state also expressed interest in expanding ADMS coverage to additional substations.

Manipur apprised that although ADMS was commissioned in 2020 and operated satisfactorily until 2023, the AMC was not continued due to fund constraint, resulting in the system currently being non-operational, with several substations not reporting to SLDC Manipur. It was also mentioned that during the visit of ED, NERLDC to SLDC Manipur, the importance of ADMS as a critical infrastructure for managing grid stress conditions was emphasized. The representative from Manipur requested that NERPC to highlight the matter to the Managing Director, MSPCL, emphasizing the urgency of restoration of the ADMS and AMC related issue.

Tripura informed that due to NERPSIP-related substation shifting, ADMS installations were dismantled at certain locations, resulting in non-availability of the system at those substations. It was further informed that a request had been made to M/s Orbit for a quotation to reintegrate ADMS at the shifted substations; however, no response had been received yet.

M/s Orbit Techsol India Pvt. Ltd. apprised that AMC is currently in place with four states, namely Meghalaya, Mizoram, Arunachal Pradesh, and Assam. It was stated that while GPRS-related issues had been observed at some substations, all equipment-related issues were addressed within the stipulated timelines as per the Service Level Agreement (SLA). Regarding Tripura, M/s Orbit stated that a detailed examination of the shifted substations and associated techno-commercial aspects is required before submitting a proposal, and assured that a quotation would be provided upon receipt of the scope from the state.

The agency also stated that considering the gap post mandatory support period a System Healthiness & Operational Status Survey need to be conducted on chargeable basis upon request from State Utility and in case any equipment / subsystem / component is found defective, Orbit shall submit detailed repair/replacement estimate.

In this regard, **Member Secretary, NERPC** stated that since M/s Orbit was the implementing agency and was well acquainted with the system, the System Healthiness & Operational Status Survey should not be conducted on a chargeable basis.

Subsequently, **M/s Orbit** agreed to conduct the survey without any charges. However, it was clarified that if any equipment/subsystem/component is found defective during survey and requires repair or replacement, the associated cost would have to be borne by the concerned State Utility.

M/s Orbit presented the cost implications of AMC for all states (copy at **Annexure-I**) and stated that once AMC is in place, the responsibility for maintaining the healthy status of ADMS would lie with M/s Orbit.

SE-SLDC, Meghalaya expressed serious concern regarding the need for urgent strengthening of cyber security infrastructure for the ADMS System in line with prevailing CERT-In guidelines applicable to critical IT-OT systems at SLDCs. He highlighted that the existing Router-cum-Firewall infrastructure deployed under ADMS requires early replacement with advanced Next Generation Firewall (NGFW) systems to ensure enhanced protection of the ADMS platform, EMS/SCADA systems, and other associated IT-OT infrastructure against evolving cyber threats.

In view of the common architecture of ADMS implementation across all NER States, he requested NERPC to facilitate and coordinate with the ADMS implementation agency, M/s Orbit, for submission of a comprehensive techno-commercial proposal for NGFW deployment for all seven NER States. He further observed that a centralized NERPC-led approach would help in achieving uniform cyber security standards, optimized technical architecture, and competitive commercial terms for supply, integration, and commissioning of NGFW systems across the region.

Deputy Director (Communication), NERPC, apprised the forum about the cyber security concerns being faced by the State SLDCs in ADMS architecture. The concerns can be mitigated by taking the following measures:

- i. Deployment of Next Generation Firewall (NGFW) at communication entry point for geo-fencing and threat filtering.
- ii. Use of M2M SIM cards with static IPs at remote stations to enable secure whitelisting.

He further stated that installation of NGFW requires significant cost implication and the discussion for the same with M/s Orbit/GE is underway. In the meantime, the State SLDCs, who are currently using GPRS SIMs with dynamic IPs, can start using M2M SIMs having static IPs as usage of GPRS SIMs restricts IP whitelisting.

Additionally, in ADMS architecture of SLDC Mizoram, public IPs are communicating with the ADMS servers over ports 80 and 443; while VPN communication is configured over port 443, the presence of traffic over port 80 is not in line with the intended architecture.

M/s Orbit stated that firewalls compliant with current cybersecurity guidelines would be provided for all NER States iro ADMS System and that a detailed techno-commercial proposal would be submitted within two weeks.

Deputy Director (Communication), NERPC further requested M/s Orbit to share the technical specifications of the proposed firewall systems and M/s Orbit confirmed to provide the same along with techno-commercial proposal.

NERLDC advised that in locations where NGFW are not currently deployed, implementation of M2M SIMs having static IPs may be considered as a cost-effective alternative to enhance security.

Nagaland raised concerns regarding cybersecurity incidents and reported that during one such event, attempts to contact engineers from M/s Orbit did not receive timely response, forcing them to shut down the server. The state expressed dissatisfaction with the service provided by the agency.

Member Secretary, NERPC advised all states to ensure that AMC is kept in place to avoid operational challenges such as those highlighted by Nagaland. He also requested M/s Orbit to submit their proposal to the respective States for further necessary action. NERPC would take up the matter pertaining to the ADMS situation in Manipur with the Managing Director, MSPCL, through an official communication, and would also take up the matter with higher authorities of Nagaland to resolve the issues. He further affirmed that in cases where AMC is in place and service quality is found to be inadequate, NERPC would initiate appropriate action against the executing agency.

The meeting concluded with a vote of thanks to the Chair.

Attendance List:

1. Sh. B Lyngkhoi, Member Secretary, NERPC
2. Sh. Alik De, Deputy Director, NERPC
3. Smt. Kanchan Chauhan, Deputy Director, NERPC
4. Sh. Vikash Shankar, Assistant Director, NERPC
5. Sh. Rajnish Kumar, Assistant Director, NERPC
6. Sh. Ashim Kumar Goswami, Assistant Director, NERPC
7. Sh. Anil Debbarma, AGM, SLDC Tripura
8. Sh. Darshan Kumar Das, DM(Comm), APDCL
9. Smt. Sushmita Das, JM, SLDC Assam
10. Sh. Geyi Yinyo, JE, DoP AP
11. Sh. Dani Bayai, JE, DoP AP
12. Smt. Laishram Ritu, GM, MSPCL
13. Smt. E.Pongmei Phom, SDO, Nagaland
14. Sh. Alex E Ngullie, JE, Nagaland
15. Sh. M K War, EE, MePTCL
16. Sh. Rajesh Bhargava, Principal Consultant, M/s Orbit-Techsol
17. Sh. Saugato Mondal, GM, NERLDC
18. Sh. Sakaldeep, Deputy Manager, NERLDC

ANNEXURE-I								
Proposal for Comprehensive AMC & FMS of Meghalaya ADMS System								
AMC Duration/Contract : 03 Years								
System AMC & FMS Contract Effective from 01.DEC.2026								
				Rs.				
S.No.	Description	Unit	No. of Years	Yearly AMC Charges - Basic Value	Monthly AMC Charges - Basic Value	Total AMC Charges for 3 Years - Basic Value	GST@18 % on Total 3 Years Basic Value of AMC	Total AMC Charges for 3 Years including GST
1	Comprehensive AMC & FMS of ADMS System of Meghalaya State (ADMS System at SLDC, FTU & other Equipments supplied at 05 Nos. 33/11 KV Sub-Stations)	Lumpsum	3	2661702	221808	7985105	1437319	9422424
Total AMC Charges for 3 Years excluding GST: Rs. 7985105.00 (Rupees Seventy Nine Lakhs Eighty Five Thousand One Hundred Five Only)								
Total AMC Charges for 3 Years including GST: Rs. 9422424.00 (Rupees Ninety Four Lakhs Twenty Two Thousand Four Hundred Twenty Four Only)								
Key Services :								
1. 01 Nos. dedicated resource at each State SLDC for 8 Hrs x 5 Day (10 AM - 6 PM) for ADMS System Operation & Maintenance								
2. System HW support management thorough some Spares (MFT, Relays) and AMC support through authorized services partners of OEM for Server, FTU with Modem, Switch, Router cum FW and Screens.								
3. Laptop Support Services can be taken on seperate Chargeable basis as and when required on mutually agreed rates								
4. Cyber Security Compliant System operation & maintenance : a) Orbit shall ensure that the ADMS system SW shall be maintained in line with the currently applicable guidelines for IT/OT system Application SW. b) All State Utilities (Owners) are requested to upgrade the Server OS, Switches and FW cum Routers in each ADMS System for which cost is to be borne by the Owners. Orbit shall support to provide the competitive and technically compliant Equipments and other SW to ensure their compliance to current CERT-IN guidelines for IT/OT System.								
5. System Backup & Restoration : Server Management								
6. Preventive Maintenance activities for Overall ADMS System								
7. Availability of all communication System from S/S to ADMS Control Center (Redundant GPRS communication) and dedicated min. 2Mbps Internet connection at SLDC for ADMS System is under responsibility of the State Power Utility(Owner)								

Rajeev

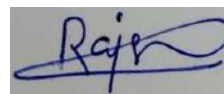


ANNEXURE-I								
Revised Proposal for Comprehensive AMC & FMS of ASSAM ADMS System								
AMC Duration/Contract : 03 Years								
System AMC & FMS Contract Effective from 01.MARCH.2027								
				Rs.				
S.No.	Description	Unit	No. of Years	Yearly AMC Charges - Basic Value	Monthly AMC Charges - Basic Value	Total AMC Charges for 3 Years - Basic Value	GST@18 % on Total 3 Years Basic Value of AMC	Total AMC Charges for 3 Years including GST
1	Comprehensive AMC & FMS of ADMS System of Assam State (ADMS System at SLDC, FTU & other Equipments supplied at 10 Nos. 33/11 KV Sub-Stations)	Lumpsum	3	3174048	264504	9522143	1713986	11236129
Total AMC Charges for 3 Years excluding GST: Rs. 9522143.00 (Rupees Ninety Five Lakhs Twenty Two Thousand One Hundred Fourty Three Only)								
Total AMC Charges for 3 Years including GST: Rs. 11236129.00 (Rupees One Crore Twelve Lakhs Thirty Six Thousand One Hundred Twenty Nine Only)								
Key Services :								
1. 01 Nos. dedicated resource at each State SLDC for 8 Hrs x 5 Day (10 AM - 6 PM) for ADMS System Operation & Maintenance								
2. System HW support management thorough some Spares (MFT, Relays) and AMC support through authorized services partners of OEM for Server, FTU with Modem, Switch, Router cum FW and Screens.								
3. Laptop Support Services can be taken on seperate Chargeable basis as and when required on mutually agreed rates								
4. Cyber Security Compliant System operation & maintenance : a) Orbit shall ensure that the ADMS system SW shall be maintained in line with the currently applicable guidelines for IT/OT system Application SW. b) All State Utilities (Owners) are requested to upgrade the Server OS, Switches and FW cum Routers in each ADMS System for which cost is to be borne by the Owners. Orbit shall support to provide the competitive and technically compliant Equipments and other SW to ensure their compliance to current CERT-IN guidelines for IT/OT System.								
5. System Backup & Restoration : Server Management								
6. Preventive Maintenance activities for Overall ADMS System								
7. Availability of all communication System from S/S to ADMS Control Center (Redundant GPRS communication) and dedicated min. 2Mbps Internet connection at SLDC for ADMS System is under responsibility of the State Power Utility(Owner)								

Raj



ANNEXURE-I								
Revised Proposal for Comprehensive AMC & FMS of MIZORAM ADMS System								
AMC Duration/Contract : 03 Years								
System AMC & FMS Contract Effective from 01.SEPTEMBER.2027								
				Rs.				
S.No.	Description	Unit	No. of Years	Yearly AMC Charges - Basic Value	Monthly AMC Charges - Basic Value	Total AMC Charges for 3 Years - Basic Value	GST@18 % on Total 3 Years Basic Value of AMC	Total AMC Charges for 3 Years including GST
1	Comprehensive AMC & FMS of ADMS System of Mizoram (ADMS System at SLDC, FTU & other Equipments supplied at 03 Nos. 33/11 KV Sub-Stations)	Lumpsum	3	2928879	244073	8786636	1581595	10368231
Total AMC Charges for 3 Years excluding GST: Rs. 8786636.00 (Rupees Eighty Seven Lakhs Eighty Six Thousand Six Hundred Thirty Six Only)								
Total AMC Charges for 3 Years including GST: Rs. 10368231.00 (Rupees One Crore Three Lakhs Sixty Eight Thousand Two Hundred Thirty One Only)								
Key Services :								
1. 01 Nos. dedicated resource at each State SLDC for 8 Hrs x 5 Day (10 AM - 6 PM) for ADMS System Operation & Maintenance								
2. System HW support management thorough some Spares (MFT, Relays) and AMC support through authorized services partners of OEM for Server, FTU with Modem, Switch, Router cum FW and Screens.								
3. Laptop Support Services can be taken on seperate Chargeable basis as and when required on mutually agreed rates								
4. Cyber Security Compliant System operation & maintenance : a) Orbit shall ensure that the ADMS system SW shall be maintained in line with the currently applicable guidelines for IT/OT system Application SW. b) All State Utilities (Owners) are requested to upgrade the Server OS, Switches and FW cum Routers in each ADMS System for which cost is to be borne by the Owners. Orbit shall support to provide the competitive and technically compliant Equipments and other SW to ensure their compliance to current CERT-IN guidelines for IT/OT System.								
5. System Backup & Restoration : Server Management								
6. Preventive Maintenance activities for Overall ADMS System								
7. Availability of all communication System from S/S to ADMS Control Center (Redundant GPRS communication) and dedicated min. 2Mbps Internet connection at SLDC for ADMS System is under responsibility of the State Power Utility(Owner)								

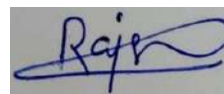



ANNEXURE-I								
Revised Proposal for Comprehensive AMC & FMS of ARUNACHAL PRADESH ADMS System								
AMC Duration/Contract : 03 Years								
System AMC & FMS Contract Effective from 01.APRIL.2028								
				Rs.				
S.No.	Description	Unit	No. of Years	Yearly AMC Charges - Basic Value	Monthly AMC Charges - Basic Value	Total AMC Charges for 3 Years - Basic Value	GST@18 % on Total 3 Years Basic Value of AMC	Total AMC Charges for 3 Years including GST
1	Comprehensive AMC & FMS of ADMS System of Arunachal Pradesh (ADMS System at SLDC, FTU & other Equipments supplied at 03 Nos. 33/11 KV Sub-Stations)	Lumpsum	3	2840709	236726	8522126	1533983	10056109
Total AMC Charges for 3 Years excluding GST: Rs. 8522126.00 (Rupees Eighty Five Lakhs Twenty Two Thousand One Hundred Twenty Six Only)								
Total AMC Charges for 3 Years including GST: Rs. 10056109.00 (Rupees One Crore Fifty Six Thousand One Hundred Nine Only)								
Key Services :								
1. 01 Nos. dedicated resource at each State SLDC for 8 Hrs x 5 Day (10 AM - 6 PM) for ADMS System Operation & Maintenance								
2. System HW support management thorough some Spares (MFT, Relays) and AMC support through authorized services partners of OEM for Server, FTU with Modem, Switch, Router cum FW and Screens.								
3. Laptop Support Services can be taken on seperate Chargeable basis as and when required on mutually agreed rates								
4. Cyber Security Compliant System operation & maintenance : a) Orbit shall ensure that the ADMS system SW shall be maintained in line with the currently applicable guidelines for IT/OT system Application SW. b) All State Utilities (Owners) are requested to upgrade the Server OS, Switches and FW cum Routers in each ADMS System for which cost is to be borne by the Owners. Orbit shall support to provide the competitive and technically compliant Equipments and other SW to ensure their compliance to current CERT-IN guidelines for IT/OT System.								
5. System Backup & Restoration : Server Management								
6. Preventive Maintenance activities for Overall ADMS System								
7. Availability of all communication System from S/S to ADMS Control Center (Redundant GPRS communication) and dedicated min. 2Mbps Internet connection at SLDC for ADMS System is under responsibility of the State Power Utility(Owner)								

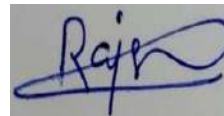
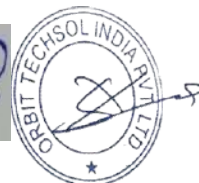
Raj



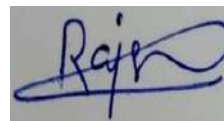
ANNEXURE-I								
Revised Proposal for Comprehensive AMC & FMS of MANIPUR ADMS System								
AMC Duration/Contract : 03 Years								
System AMC & FMS Contract Effective from 01.JUNE.2026								
				Rs.				
S.No.	Description	Unit	No. of Years	Yearly AMC Charges - Basic Value	Monthly AMC Charges - Basic Value	Total AMC Charges for 3 Years - Basic Value	GST@18 % on Total 3 Years Basic Value of AMC	Total AMC Charges for 3 Years including GST
1	Comprehensive AMC & FMS of ADMS System of Manipur State (ADMS System at SLDC, FTU & other Equipments supplied at 04 Nos. 33/11 KV Sub-Station)	Lumpsum	3	2874966	239581	8624899	1552482	10177381
Total AMC Charges for 3 Years excluding GST: Rs. 8624899.00 (Rupees Eighty Six Lakhs Twenty Four Thousand Eight Hundred Ninety Nine Only)								
Total AMC Charges for 3 Years including GST: Rs. 10177381.00 (Rupees One Crore One Lakhs Seventy Seven Thousand Three Hundred Eighty One Only)								
Mandatory Pre-AMC Conditions (Critical for System Reliability) for Manipur State: 1. System Healthiness & Operational Status Survey •To be conducted by Orbit on chargeable basis upon request from State Utility : Comprehensive system audit + Preventive maintenance check + Functional validation of entire ADMS ecosystem 2. Identification & Restoration of Defective Components •In case any equipment / subsystem / component is found defective, Orbit shall submit detailed repair/replacement estimate and Upon issuance of PO by respective State Utility, Immediate corrective action shall be undertaken and System functionality shall be fully restored and demonstrated 6.3 AMC Commencement immediately after Successful restoration & Functional demonstration								
Key Services :								
1. 01 Nos. dedicated resource at each State SLDC for 8 Hrs x 5 Day (10 AM - 6 PM) for ADMS System Operation & Maintenance								
2. System HW support management through some Spares (MFT, Relays) and AMC support through authorized services partners of OEM for Server, FTU with Modem, Switch, Router cum FW and Screens.								
3. Laptop Support Services can be taken on separate Chargeable basis as and when required on mutually agreed rates								
4. Cyber Security Compliant System operation & maintenance : a) Orbit shall ensure that the ADMS system SW shall be maintained in line with the currently applicable guidelines for IT/OT system Application SW. b) All State Utilities (Owners) are requested to upgrade the Server OS, Switches and FW cum Routers in each ADMS System for which cost is to be borne by the Owners. Orbit shall support to provide the competitive and technically compliant Equipments and other SW to ensure their compliance to current CERT-IN guidelines for IT/OT System.								
5. System Backup & Restoration : Server Management								
6. Preventive Maintenance activities for Overall ADMS System								
7. Availability of all communication System from S/S to ADMS Control Center (Redundant GPRS communication) and dedicated min. 2Mbps Internet connection at SLDC for ADMS System is under responsibility of the State Power Utility(Owner)								



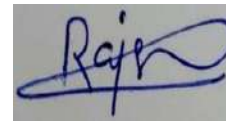
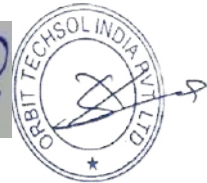

ANNEXURE-I								
Revised Proposal for Comprehensive AMC & FMS of NAGALAND ADMS System								
AMC Duration/Contract : 03 Years								
System AMC & FMS Contract Effective from 01.JUNE.2026								
				Rs.				
S.No.	Description	Unit	No. of Years	Yearly AMC Charges - Basic Value	Monthly AMC Charges - Basic Value	Total AMC Charges for 3 Years - Basic Value	GST@18 % on Total 3 Years Basic Value of AMC	Total AMC Charges for 3 Years including GST
1	Comprehensive AMC & FMS of ADMS System of Nagaland (ADMS System at SLDC, FTU & other Equipments supplied at 04 Nos. 33/11 KV Sub-Stations)	Lumpsum	3	2847039	237253	8541116	1537401	10078517
Total AMC Charges for 3 Years excluding GST: Rs. 8541116.00 (Rupees Eighty Five Lakhs Forty One Thousand One Hundred Sixteen Only)								
Total AMC Charges for 3 Years including GST: Rs. 10078517.00 (Rupees One Crore Seventy Eight Thousand Five Hundred Seventeen Only)								
Mandatory Pre-AMC Conditions (Critical for System Reliability) for Nagaland State: 1. System Healthiness & Operational Status Survey •To be conducted by Orbit on chargeable basis upon request from State Utility : Comprehensive system audit + Preventive maintenance check + Functional validation of entire ADMS ecosystem 2. Identification & Restoration of Defective Components •In case any equipment / subsystem / component is found defective, Orbit shall submit detailed repair/replacement estimate and Upon issuance of PO by respective State Utility, Immediate corrective action shall be undertaken and System functionality shall be fully restored and demonstrated 6.3 AMC Commencement immediately after Successful restoration & Functional demonstration								
Key Services :								
1. 01 Nos. dedicated resource at each State SLDC for 8 Hrs x 5 Day (10 AM - 6 PM) for ADMS System Operation & Maintenance								
2. System HW support management through some Spares (MFT, Relays) and AMC support through authorized services partners of OEM for Server, FTU with Modem, Switch, Router cum FW and Screens.								
3. Laptop Support Services can be taken on seperate Chargeable basis as and when required on mutually agreed rates								
4. Cyber Security Compliant System operation & maintenance : a) Orbit shall ensure that the ADMS system SW shall be maintained in line with the currently applicable guidelines for IT/OT system Application SW. b) All State Utilities (Owners) are requested to upgrade the Server OS, Switches and FW cum Routers in each ADMS System for which cost is to be borne by the Owners. Orbit shall support to provide the competitive and technically compliant Equipments and other SW to ensure their compliance to current CERT-IN guidelines for IT/OT System.								
5. System Backup & Restoration : Server Management								
6. Preventive Maintenance activities for Overall ADMS System								
7. Availability of all communication System from S/S to ADMS Control Center (Redundant GPRS communication) and dedicated min. 2Mbps Internet connection at SLDC for ADMS System is under responsibility of the State Power Utility(Owner)								

ANNEXURE-I								
Revised Proposal for Comprehensive AMC & FMS of TRIPURA ADMS System								
AMC Duration/Contract : 03 Years								
System AMC & FMS Contract Effective from 01.JUNE.2026								
				Rs.				
S.No.	Description	Unit	No. of Years	Yearly AMC Charges - Basic Value	Monthly AMC Charges - Basic Value	Total AMC Charges for 3 Years - Basic Value	GST@18 % on Total 3 Years Basic Value of AMC	Total AMC Charges for 3 Years including GST
1	Comprehensive AMC & FMS of ADMS System of Tripura State (ADMS System at SLDC, FTU & other Equipments supplied at 05 Nos. 33/11 KV Sub-Stations)	Lumpsum	3	2887959	240663	8663876	1559498	10223374
Total AMC Charges for 3 Years excluding GST: Rs. 8663876.00 (Rupees Eighty Six Lakhs Sixty Three Thousand Eight Hundred Seventy Six Only)								
Total AMC Charges for 3 Years including GST: Rs. 10223374.00 (Rupees One Crore Two Lakhs Twenty Three Thousand Three Hundred Seventy Four only)								
Mandatory Pre-AMC Conditions (Critical for System Reliability) for Tripura State:								
1. System Healthiness & Operational Status Survey								
•To be conducted by Orbit on chargeable basis upon request from State Utility : Comprehensive system audit + Preventive maintenance check + Functional validation of entire ADMS ecosystem								
2. Identification & Restoration of Defective Components								
•In case any equipment / subsystem / component is found defective, Orbit shall submit detailed repair/replacement estimate and Upon issuance of PO by respective State Utility, Immediate corrective action shall be undertaken and System functionality shall be fully restored and demonstrated								
6.3 AMC Commencement immediately after Successful restoration & Functional demonstration								
Key Services :								
1. 01 Nos. dedicated resource at each State SLDC for 8 Hrs x 5 Day (10 AM - 6 PM) for ADMS System Operation & Maintenance								
2. System HW support management thorough some Spares (MFT, Relays) and AMC support through authorized services partners of OEM for Server, FTU with Modem, Switch, Router cum FW and Screens.								
3. Laptop Support Services can be taken on separate Chargeable basis as and when required on mutually agreed rates								
4. Cyber Security Compliant System operation & maintenance :								
a) Orbit shall ensure that the ADMS system SW shall be maintained in line with the currently applicable guidelines for IT/OT system Application SW.								
b) All State Utilities (Owners) are requested to upgrade the Server OS, Switches and FW cum Routers in each ADMS System for which cost is to be borne by the Owners. Orbit shall support to provide the competitive and technically compliant Equipments and other SW to ensure their compliance to current CERT-IN guidelines for IT/OT System.								
5. System Backup & Restoration : Server Management								
6. Preventive Maintenance activities for Overall ADMS System								
7. Availability of all communication System from S/S to ADMS Control Center (Redundant GPRS communication) and dedicated min. 2Mbps Internet connection at SLDC for ADMS System is under responsibility of the State Power Utility(Owner)								




NER ADMS PROJECT : PROPOSED CHARGES FOR ADMS SYSTEM AMC & FMS - WITHOUT LAPTOP AMC (3 YEARS PERIOD) FOR ALL 7 STATES_05MAY26									
				Rs.					
S.No	State & State Power Utility	AMC & FMS Start Date (Proposed)	No. of Years for AMC & FMS	Yearly AMC & FMS Charges (Basic Value)	GST @18%	Total AMC & FMS Charges for 1 Year including GST	Estimated Monthly Charges without GST	Estimated Monthly Charges including GST	AMC & FMS Charges for 3 Years including GST
1	Meghalaya Power Transmission Corporation Ltd , Meghalaya	01.12.2026	3	2661702	479106	3140808	221808	261734	9422424
2	Assam Power Distribution Company Ltd, Assam	01.03.2027	3	3174048	571329	3745376	264504	312115	11236129
3	Power & Electricity Department, Mizoram	01.09.2027	3	2928879	527198	3456077	244073	288006	10368231
4	Department of Power, Arunachal Pradesh	01.04.2028	3	2840709	511328	3352036	236726	279336	10056109
5	Manipur State Power Company Ltd, Manipur	01.06.2026	3	2874966	517494	3392460	239581	282705	10177381
6	Department of Power, Nagaland	01.06.2026	3	2847039	512467	3359506	237253	279959	10078517
7	Tripura State Electricity Corporation Ltd, Tripura	01.06.2026	3	2887959	519833	3407791	240663	283983	10223374
TOTAL (Rs.)									71562165

Sl No	Issue	Meeting No	Action Taken / Deliberation	Action to be taken by	Timeline	Remarks
1	Backup SLDC: Arunachal Pradesh	34th NETeST	Budgetary estimate proposal submitted to State Government for approval for FY 2026-27.	SLDC Arunachal Pradesh / State Govt: Secure budget approval and initiate construction.	1.5 to 2 years post-approval	
	Backup SLDC: Assam	34th NETeST	Bids are under evaluation; Letter of Award (LoA) is expected to be issued shortly for the building at 220 kV Samaguri substation.	AEGCL: Issue LoA and commence civil construction.	2 years from LoA issuance	
	Backup SLDC: Manipur	34th NETeST	The building infrastructure is fully ready at the 400 kV Thoubal Substation.	MSPCL: Provide update for 34th NETeST / Maintain readiness for SCADA integration.	Ready	
	Backup SLDC: Meghalaya	34th NETeST	LoA was awarded in March 2026 for the work at 220/132/33kV Mawphlang Grid Sub-station.	MePTCL: Complete the ongoing infrastructure construction.	September 2026 (6 months from LoA)	
	Backup SLDC: Mizoram	34th NETeST	Budget approved by the government; work order expected to be placed by the first week of May 2026.	PE&D, Mizoram: Issue work order and execute construction.	2 years from May 2026	
	Backup SLDC: Nagaland	34th NETeST	The building infrastructure is fully ready at the 132 kV New Secretariat Substation.	DoP Nagaland: Provide update for 34th NETeST / Maintain readiness for SCADA integration.	Ready	
	Backup SLDC: Tripura	34th NETeST	Renovation work is actively under progress at one of the buildings at the 132 kV Surjamani Nagar Substation.	TPTL: Complete the ongoing renovation work.	3 to 4 months	
2	Restoration and Planning of ER-NER Redundant Communication Path via Bongaigaon-Binaguri-1 OPGW Link	33rd NETeST	Binaguri-Bongaigaon link was configured and commissioned on 11th April 2026. Main ICCP services (Shillong to Delhi, Shillong to Kolkata, Guwahati to Delhi and Guwahati to Kolkata) diverted over 400 kV Binaguri-Bongaigaon. AGC services are still pending.	POWERGRID	Update required (Target was end of May 2026)	
3	Planning for OPGW connectivity of 220 kV Agomoni S/s AEGCL	33rd NETeST	LILO of 220kV Alipurduar-Bongaigaon D/C line at Agomoni is over existing ER-NER link. AEGCL confirmed compliance with CEA Fibre Sharing Guidelines. CTUIL requested ULDC-POWERGRID for fiber utilization details (Grid-Op vs commercial).	AEGCL: Update status of LILO at Agomoni. CTUIL & POWERGRID: Provide fiber utilization details and update on alternate communication path.	At the earliest	
4	Connectivity of Tejas network developed by AEGCL and POWERGRID-ULDC to enhance the reliability of NER communication network.	33rd NETeST	AEGCL deployed Tejas SDH network in 32 locations; ULDC-POWERGRID commissioned Tejas SDH in multiple ISTS/ISGS nodes. Connectivity (BgTPP-BTPS, NERLDC-SLDC, Mariani PO-Mariani AEGCL) will enhance network reliability. Forum requested connectivity between Tejas devices at SLDC Kahilipara and NERLDC via fibre.	ULDC-POWERGRID & AEGCL: Complete connectivity for BgTPP-BTPS and NERLDC-SLDC and update status.	End of April-2026	
5	Cyber Security Concerns in ADMS Architecture across NER States and Implementation of Mitigation Measures	33rd NETeST	Identified vulnerabilities in ADMS architecture (lack of geo-fencing/I/O blocking at modem level, dynamic IPs on GPSR SIMs preventing whitelisting, unexplained port 80 traffic). Recommendations include NGFW deployment and M2M SIMs. AMC of ADMS expires Jan 2027.	All NER SLDCs: Deploy M2M SIM cards at remote stations; Procure Next Generation Firewall (NGFW).	At the earliest (Before Jan 2027 AMC expiry)	
6	VAPT cyber security audit of SCADA/EMS system of SLDCs	33rd NETeST	VAPT of OT systems for FY 2025-26 pending in all SLDCs except Assam. M/S GEV submitted that VAPT audit for OT system is in progress for all other NER States. CISO-NERLDC issued letter on 06.04.2026 highlighting non-compliance.	All SLDCs (except Assam): Expedite completion of VAPT for both IT and OT systems and submit status/compliance report.	At the earliest	
7	Usage of POWERTEL OPGW in view of the order of Hon'ble CERC against petition no. 494/MP/2020	33rd NETeST	OTDR tests conducted. On 400 kV Silchar-Imphal: 16 live fibers (used by POWERTEL), 8 unhealthy (target restore May 2026). On 132 kV Kumarghat-Aizawl: 8 live (used by POWERTEL), 16 unhealthy (target restore May 2026). Status update mails sent on 1st June, 25th June, and 9th July 2026.	POWERGRID-ULDC: Update the status of each OPGW link and restoration of unhealthy fibers.	Targeted for May 2026 / Update required immediately	
8	Optimised utilisation of OPGW & FOTE across NER (NERPSP, Comprehensive T&D, State-owned, TBCBs, ULDCs)	33rd NETeST	NERLDC sent letters for network connectivity. 1) Kameng-Khupi-Tenga-Balipara: Interpatching done, NMS integration pending. 2) FOTE ULDC/NERPSP Interpatching: NERPSP team couldn't procure SFPs; ULDC-POWERGRID is procuring 68 SFPs (expected config by Aug 2026). Forum advised ULDC-PG to submit consolidated list of NERPSP communication issues.	POWERGRID-ULDC, POWERGRID-NERPSP, and POWERGRID-CTDS: Update status and submit consolidated list of issues to OCC.	August 2026 (for link configuration) / Immediate update	
9	Establishing Comm Link between 400 kV New Kohima & 220 kV Zhadima via 220 kV Zhadima-New Kohima Line (Restoration due to Link Failure)	33rd NETeST	New Kohima-Imphal link non-functional since June 2024. Alternate route via Zhadima-New Kohima OPGW (DoP Nagaland). DoP Nagaland completed installation of OPGW, approach cable, and FODB at both stations in Nov 2025. Forum advised Apravaa and ULDC-POWERGRID to configure. Reminder mails sent in June 2026.	DoP-Nagaland, POWERGRID, and KMTL (Apravaa): Provide completion status of configuration to enable utilization of OPGW.	Target was end of May 2026	
10	Request to integrate data of Panyor and Pare in Chimpu S/s RTU	33rd NETeST	Data (MW, MVAR, CB, isolators) for Panyor and Pare bays at Chimpu S/s not reporting due to missing MFTs and CMRs. NERLDC requested DoP-Arunachal Pradesh via multiple emails to install and integrate them. DoP-AP informed MFT and CMR received at Itanagar site, but installation pending as technician deployed to Dukumpani.	DoP-Arunachal Pradesh: Update status on installation of MFTs and CMRs and their integration with Chimpu RTU.	End of May 2026	
11	Dual Connectivity: Arunachal Pradesh	33rd NETeST	Already achieved as SLDC Arunachal Pradesh is established in 132 kV Chimpu S/s which is in-turn connected with multiple stations such as Pare, Nirjuli, Lekhi etc.	-	Achieved	
	Dual Connectivity: Assam	33rd NETeST	The multiple paths will be achieved once the connectivity of NERLDC Guwahati with Kahilipara S/s via UFGO is completed under reliable communication scheme.	AEGCL / POWERGRID: Complete UFGO connectivity.	Pending scheme completion	
	Dual Connectivity: Manipur	33rd NETeST	NERLDC requested MSPCL to lay one more OPGW/ADSS cable between Imphal (PG) and SLDC Manipur. Currently only one OPGW over 132 kV Imphal (PG) – Yuremabam-1 is available.	MSPCL: Lay secondary OPGW/ADSS cable and update status.	At the earliest	
	Dual Connectivity: Meghalaya	33rd NETeST	Already achieved as SLDC Meghalaya is established in 132 kV NEHU S/s which is further connected with multiple stations such as Mawlai, Umtru etc.	-	Achieved	
	Dual Connectivity: Mizoram	33rd NETeST	Currently SLDC Mizoram is only connected with 132 kV Zuangti S/s. PE&D proposed including this in the State Reliable Comm Scheme, but NERLDC advised against waiting due to past isolation incidents. Forum requested expediting a 2nd fiber link. Reminders sent in June 2026.	PE&D Mizoram: Expedite the establishment of a second fiber connectivity without waiting for the Reliable Comm project.	At the earliest	
	Dual Connectivity: Nagaland	33rd NETeST	DoP Nagaland informed that work is in progress under the State Reliable Comm scheme to directly connect SLDC Nagaland to 220 kV Dimapur (PG). Forum requested to expedite.	DoP Nagaland: Expedite direct connection to 220 kV Dimapur (PG) and update status.	End of June 2026	
	Dual Connectivity: Tripura	33rd NETeST	Already achieved. SLDC Tripura is connected with 132 kV SM Nagar (TPTL) as well as 132 kV RC Nagar (NEEPCO).	-	Achieved	
12	RTU Re-configuration: Misa S/s (POWERGRID)	33rd NETeST	Out of 16 POWERGRID-owned stations, 12 are reporting parallelly to NERLDC Shillong and NERLDC Guwahati. Configuration of remaining 4 stations is pending.	POWERGRID-NERTS / POWERGRID-ULDC: Configure RTU to enable parallel reporting to both Shillong and Guwahati.	August 2026	
	RTU Re-configuration: Mokokchung S/s (POWERGRID)	33rd NETeST	Out of 16 POWERGRID-owned stations, 12 are reporting parallelly to NERLDC Shillong and NERLDC Guwahati. Configuration of remaining 4 stations is pending.	POWERGRID-NERTS / POWERGRID-ULDC: Configure RTU to enable parallel reporting to both Shillong and Guwahati.	End of June 2026	
	RTU Re-configuration: Roing S/s (POWERGRID)	33rd NETeST	Out of 16 POWERGRID-owned stations, 12 are reporting parallelly to NERLDC Shillong and NERLDC Guwahati. Configuration of remaining 4 stations is pending.	POWERGRID-NERTS / POWERGRID-ULDC: Configure RTU to enable parallel reporting to both Shillong and Guwahati.	End of June 2026	
	RTU Re-configuration: Tezu S/s (POWERGRID)	33rd NETeST	Out of 16 POWERGRID-owned stations, 12 are reporting parallelly to NERLDC Shillong and NERLDC Guwahati. Configuration of remaining 4 stations is pending.	POWERGRID-NERTS / POWERGRID-ULDC: Configure RTU to enable parallel reporting to both Shillong and Guwahati.	End of June 2026	

13	UNMS Issues: Integration of NMS (NERPSIP & Comp. T&D) with U-NMS	33rd NETeST	Nagaland, Mizoram, Tripura: Completed. Manipur, Meghalaya: Install/comm completed, integration target March end. Arunachal Pradesh: Tejas NMS delivery awaited.	NERPSIP / POWERGRID: Complete integration for Manipur and Meghalaya; expedite delivery for Arunachal Pradesh.	March end (Manipur/Meghalaya)	
	UNMS Issues: Integration of FOTE (Indigrid & Aprava)	33rd NETeST	Indigrid: Nodes visible but SNMP communication pending. Aprava: Pending due to missing gateway IP (ABB). Forum requested ULDC-POWERGRID to take up with both. Aprava confirmed support.	ULDC-POWERGRID, Indigrid, Aprava: Implement necessary changes for SNMP and IP configuration. CTUIL: Expedite onboarding.	At the earliest	
	UNMS Issues: Integration of FOTE (Tejas & Fibcom under ULDC/TBCB)	33rd NETeST	Recently commissioned Tejas (Misa, Kopili, etc.) and Fibcom (Kameng, Roing, etc.) nodes require integration with UNMS without delay for continuous monitoring.	ULDC-POWERGRID: Complete integration of the recently commissioned Tejas and Fibcom nodes into UNMS.	Immediate	
	UNMS Issues: Naming Nomenclature Standardization	33rd NETeST	Ambiguous naming by OEMs (ECI, ABB, Fibcom) hampers fault resolution. Triparty meeting held 16th March 2026. POWERGRID informed naming for Tejas and ECI nodes targeted by May 2026.	POWERGRID: Standardize naming convention for services within the U-NMS system and update status.	May 2026	
	UNMS Issues: Supply of 2 x 6 kVA UPS System across NER SLDs and NERPC	33rd NETeST	Presently U-NMS running on raw power. Tender for procurement re-initiated by POWERGRID.	POWERGRID: Complete deployment of UPS systems across NER SLDs and NERPC.	August 2026	
	UNMS Issues: Mismatch in Link Status for ABB devices (NERPSIP-Assam)	33rd NETeST	Discrepancies found (e.g., Chapakhowa node shows UP when OPGW is down). ULDC-POWERGRID to connect ABB NMS with UNMS. Taken up with NERPSIP team (10th June 2026).	ULDC-POWERGRID / NERPSIP: Resolve status mismatch and update status.	At the earliest	
	UNMS Issues: Discrepancies regarding Fibcom services	33rd NETeST	Inaccurate routing visualization and incorrect service status (showing UP during active outages, e.g., ICCP paths). ULDC-POWERGRID stated GA&C is taking it up with M/s Fibcom.	ULDC-POWERGRID: Coordinate with Fibcom to fix routing and status discrepancies. Update status.	At the earliest	
14	UNMS Issues: Non-POWERGRID stations not considered for Communication Availability	33rd NETeST	Availability report currently includes only POWERGRID nodes. CTUIL suggested including channel-wise details of all ISTS/ISGS stations.	POWERGRID / Members: Discuss and implement inclusion of all ISTS/ISGS stations in UNMS availability reports.	At the earliest	
	Missing link OPGW in 132 kV Karong-Kohima line	33rd NETeST	NERPSIP-Manipur laid OPGW from Karong to Mao (Manipur-Nagaland border). Link from Mao to Kohima missing. Initially DoP-Nagaland was to submit DPR to PSDF, but NERPC informed they are not eligible for an additional tranche. Forum requested MSPCL to include the link in Manipur's DPR for PSDF.	MSPCL: Update status on inclusion of Mao-Kohima communication link in Manipur's DPR for PSDF funding.	At the earliest	
	Feeble condition of State-Estimator of NERLDC SCADA system due to low availability of Real-time Telemetry	33rd NETeST	Telemetry availability for states is low (30-60%), impacting state estimation accuracy. MS NERPC advised aspiring for minimum 95% availability. Current RTU Availability: AR (61.68%), AS (71.67%), MN (56.2%), ML (92.09%), MZ (50.08%), NL (40.6%), TR (67.5%).	All NER States: Prioritize integrity of RTUs and communication systems to increase data availability. Aspire for 95% minimum telemetry availability and update progress.	Continuous effort	
	CERC Order Adherence (556/MP/2020): Mizoram	34th NETeST	Requirement to submit monthly progress report to NERPC and NERLDC. Mail/reports not received for May 2026 onwards.	PE&D Mizoram: Resume submission of the monthly progress reports.	Monthly	
	CERC Order Adherence (263/MP/2020): Nagaland	34th NETeST	Progress Reports are currently being submitted quarterly instead of the required monthly basis.	DoP Nagaland: Submit the progress reports on a strict monthly basis.	Monthly	
	CERC Order Adherence (201/MP/2020): Tripura	34th NETeST	Nodal Person (Smt. Shampa Sen) appointed, but no reports received till date. Reminders sent on 23rd March and 24th June 2026.	SLDC Tripura / TPTL: Submit pending monthly progress reports immediately.	Monthly / Immediate	
	CERC Order Adherence (197/MP/2020): Arunachal Pradesh	34th NETeST	Nodal Person (Sh. Ojing Jerang) appointed on 21st April 2026, but no reports received till now. Reminders sent on 23rd March and 24th June 2026.	DoP Arunachal Pradesh: Submit pending monthly progress reports immediately.	Monthly / Immediate	
17	State Reliable Communication Scheme: Arunachal Pradesh	34th NETeST	PSDF funding pattern changed to 90:10 (PSDF:State). DoP-Arunachal Pradesh informed that proposals are already covered in Comprehensive Scheme (CTDS), hence no DPR will be submitted for PSDF funding.	-		
	State Reliable Communication Scheme: Assam	34th NETeST	DPR has been submitted to PSDF and is currently under review by the TESG Committee.	AEGCL: Update on the review status from TESG.	At the earliest	
	State Reliable Communication Scheme: Manipur	34th NETeST	MSPCL informed that the DPR is under preparation.	MSPCL: Expedite completion and submission of the DPR to PSDF and update status.	May 2026	
	State Reliable Communication Scheme: Meghalaya	34th NETeST	DPR has been submitted to PSDF and is currently under review by the TESG Committee.	MePTCL: Update on the review status from TESG.	At the earliest	
	State Reliable Communication Scheme: Mizoram	34th NETeST	DPR is prepared. However, government approval for the 10% state share is pending. Reminders sent on 1st July and 13th July 2026.	PE&D Mizoram: Expedite government approval for 10% state share and submit DPR to PSDF.	At the earliest	
	State Reliable Communication Scheme: Nagaland	34th NETeST	DoP Nagaland informed that the scheme has been recently sanctioned by the 24th Meeting of the Monitoring Committee of PSDF.	DoP Nagaland: Proceed with implementation and provide updates.	Ongoing	
	State Reliable Communication Scheme: Tripura	34th NETeST	Tripura apprised the forum that they will re-assess their requirement to prepare the DPR.	TPTL / SLDC Tripura: Complete reassessment and submit DPR to PSDF if required. Update status.	At the earliest	
18	Implementation of Guwahati Islanding Scheme	34th NETeST	PSDF monitoring committee approved funding. AEGCL proposed communication part under State Reliable Comm Scheme. Forum advised exploring own resources for communication components (FOTE at Dispur and Azara) to avoid delays. Decided in 239th OCC to implement in phases: Stage 1 without Karbi-Langpi, Jawaharnagar, and Chandrapur; Stage 2 with original plan post OPGW commissioning.	AEGCL: 1) Install FOTE at Dispur & Azara using own funds. 2) Proceed with tendering process immediately without waiting for PSDF approval for communication part. 3) Seek technical clarifications (e.g., UFR delay) from NERPC.	Immediate	
19	Real-time data of POWERGRID bays at AEGCL stations: Srikona	34th NETeST	Data (isolator) missing since 28th Nov 2022. POWERGRID-ULDC handed over materials (Cables, MFTs, CMRs) to AEGCL. AEGCL to engage vendor for RTU DB configuration and hardware installation.	AEGCL: Engage vendor, complete hardware installation and RTU configuration.	At the earliest	
	Real-time data of POWERGRID bays at AEGCL stations: Hailakandi	34th NETeST	Real-time data of Silchar bays installed at Hailakandi is not reporting to NERLDC.	POWERGRID / AEGCL: Resolve telemetry issue and update status.	At the earliest	
	Real-time data of POWERGRID bays at AEGCL stations: Pawai S/s	34th NETeST	Real-time data of 132 kV BNC HVDC bays at Pawai S/s is not reporting to NERLDC.	POWERGRID / AEGCL: Resolve telemetry issue and update status.	At the earliest	
20	Restoration of OPGW owned by Manipur (132 kV Churachandpur – Ningthoukhong link)	34th NETeST	Outage affects 7 stations. Break is ~8km from Ningthoukhong. Handover documents provided in April 2024. In 33rd NETeST, MSPCL reported resolution pending due to law-and-order situation. NERLDC sent official letter to MD, MSPCL.	MSPCL / POWERGRID-ULDC: Provide update on the restoration of the OPGW link.	Dependent on law & order situation	
21	Fiber Optic Expansion (Central Sector): 400kV Bongaigaon (PG) - 220kV Saliakati - 220kV BTPS	34th NETeST	The original vendor M/s TCIL has agreed to restart the work.	POWERGRID-NERTS: Update status on the progression of work.	November 2026	
	Fiber Optic Expansion (Central Sector): 400kV Mirza (Azara) – Byrnihat (Killing)	34th NETeST	Stringing work has been completed.	POWERGRID-NERTS: Update status on completion of the entire work.	May 2026	
	Fiber Optic Expansion (Central Sector): 400kV Silchar – Palatana	34th NETeST	The original vendor M/s TCIL has agreed to restart the work.	POWERGRID-NERTS: Update status on the progression of work.	October 2026	
22	Fiber-Optic projects approved in 17th TCC/RPC: Additional Communication Scheme	34th NETeST	Status update requested for the Additional Communication Scheme.	POWERGRID-ULDC: Update the status of the scheme.	At the earliest	
	Fiber-Optic projects approved in 17th TCC/RPC: Reliable Communication Scheme	34th NETeST	Status update requested for: a) Replacement of existing fibre, b) Fibre on new lines.	POWERGRID-ULDC: Update the status of the replacement and new fibre installations.	At the earliest	

23	Integration of Dikahi HEP real time data and pending Voice communication	34th NETeST	In 33rd NETeST, it was decided that NERPC Secretariat shall discuss the matter with DoP, Arunachal Pradesh / Dikahi. Previously (29th NETeST), it was informed that Dikahi HEP connected to a leased line and VOIP connection was in process.	DoP-Arunachal Pradesh / Dikahi Utility: Expedite the integration of real-time data and resolve pending voice communication. Update status.	At the earliest	
24	Feasibility to connect Lekhi Substation over Fiber-Optic Network	34th NETeST	DoP AP (EE Itanagar) informed on 26th May 2026 that comm panels & FODP will not be shifted to the new control room. On 20th June 2026, DoP AP confirmed RTU work is completed and awaits the comm link. NERLDC requested POWERGRID and DoP AP via email on 10th July 2026 to connect Lekhi S/s RTU with SLDC AP.	POWERGRID / DoP-Arunachal Pradesh: Provide update on the establishment of the communication link and RTU connectivity.	At the earliest	