

भारत सरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति 29, रेसकोर्स क्रॉस रोड बेंगलूर- 560 009	 सत्यमेव जयते	Government of India Central Electricity Authority Southern Regional Power Committee 29, Race Course Cross Road Bengaluru-560 009
Email: mssrpc-ka@nic.in	Web site: www.srpc.gov.in	Phone: 080-22282516
सं/No. SRPC/SE(O)/5 th RE/2026-27/4045	दिनांक/ Date	31 st August 2026

सेवा में / To

संलग्न सूची के अनुसार/As per the list enclosed

विषय: द क्षे वि स की नवीकरणीय ऊर्जा उप समिति की 3 वी बैठक की कार्यवृत्त के संबंध में ।

Subject: Minutes for the 5th Meeting of SRPC RE Sub-Committee-reg.

महोदय/महोदया/ Sir/ Madam,

Enclosed, please find the minutes for the 5th Meeting of the Renewable Energy Sub-Committee of SRPC held on 24th June 2026. The same is also available at SRPC website (www.srpc.gov.in).

भवदीय /With regards,



(एन एस मालिनी / N S MALINI)

अधीक्षक अभियंता/Suprintending Engineer (O, P & C)

प्रेषिती सूची / Mailing List (SRPC RE Sub-Committee)

1. Divisional Electrical Engineer (Connectivity), APTRANSCO, Vijayawada
2. Divisional Electrical Engineer (RE), APTRANSCO, Vijayawada
3. Divisional Electrical Engineer (System Protection), APTRANSCO, Vijayawada
4. Divisional Electrical Engineer (Telecom), APTRANSCO, Vijayawada
5. Divisional Electrical Engineer (SCADA), APTRANSCO, Vijayawada
6. Executive Engineer (Elec.), APGENCO, Vijayawada
7. Executive Engineer (REMC), KPTCL, Bangalore
8. Executive Engineer (IPP), KPTCL Bangalore
9. Vice Chairman, Indian Wind Power Association, Chennai (ub.reddy@enerfra.com)
10. Secretary General, Indian Wind Power Association, Chennai (secretary.general@windpro.org)
11. Dy General Manager, Solar Energy Corporation of India (vkumar@seci.co.in)
12. All RE developers with installed capacity of 1000 MW and more in Southern Region
13. All ISTS connected RE developers in Southern Region
14. All southern region STU connected RE developers with installed capacity of 250 MW and more
15. Executive Director, SRLDC, Grid-India Ltd.



Minutes of the 5th Meeting of Renewable Energy Sub-Committee held on 24th June 2026

1. Introduction

The 5th Meeting of the Renewable Energy Sub-Committee of the Southern Regional Power Committee (SRPC) was held on 24th June 2026 through Video Conferencing. (List of Participants is attached as Annexure-1a)

Smt Malini N.S, Superintending Engineer (O), SRPC welcomed all the RE developers and participants to the meeting. As are all aware, the role of renewable energy in the Southern Region is growing rapidly, and with increasing RE penetration, the manner in which we integrate and operate these resources has a direct bearing on the security, reliability and resilience of the entire power system.

The RE Sub-Committee has therefore become an increasingly important forum for discussing not only issues concerning individual RE plants, but also those having wider implications for the regional grid. In this context, matters such as forecasting and scheduling performance, deviations in RE generation, low Short Circuit Ratio (SCR) at pooling stations, availability and quality of PMU, weather and other telemetry data, and the dynamic behaviour of RE plants require continued attention and close coordination among all stakeholders.

With the increasing share of inverter-based generation, aspects such as system strength, voltage stability, reactive power management, fault ride-through performance, frequency response and appropriate inverter controls are also becoming increasingly important. It is essential that RE developers remain closely aligned with the evolving grid requirements and ensure that the capabilities provided at the generating stations are effectively available during actual grid conditions.

At the same time, recent incidents such as transmission tower collapses affecting the evacuation of renewable power highlight that reliable generation alone is not sufficient; the associated transmission system and evacuation infrastructure must also remain robust and available. Any prolonged outage of critical evacuation corridors can have significant implications for both grid operation and RE generation.

She also emphasized the importance of compliance with the periodic testing and performance verification requirements stipulated under the IEGC and other applicable regulations. They are essential for ensuring that the protection, control, communication and grid-supporting capabilities of RE plants actually perform as intended when the system is subjected to disturbances.

As the penetration of RE continues to increase, better forecasting, accurate scheduling, quality real-time data, proper model validation, timely testing and proactive communication will be key to maintaining reliable grid operation. She requested all RE developers and stakeholders to treat the deliberations of this forum as an opportunity to identify issues early, share practical experience and work collectively towards their timely resolution.

The discussions during the meeting were expected to facilitate the identification of actionable measures for improving compliance and strengthening overall grid security.

2. Confirmation of Minutes of the 4th RE Sub-Committee meeting

2.1 The 4th Meeting of the Renewable Energy Sub-Committee of Southern Regional Power Committee

(SRPC) was held on 24th February 2026. The Minutes of the Meeting were issued on 15th April 2026.

➤ **The Minutes of the 4th RE Sub-Committee meeting may please be confirmed.**

SRPC RE sub-committee was constituted with the membership of :

1. Regional RE Entities
2. Regional RE Park Developers
3. State RE Generators of capacity 250 MW & more
4. Major Solar & Wind Associations with presence in SR
5. Representative of SECI

➤ **RE entities fulfilling the above criteria but not currently receiving communications pertaining to the SRPC RE Sub-Committee are requested to intimate SRPC at seoprnsrpc-ka@nic.in, srpc.operation@gmail.com so that the concerned entities may be included in the mailing list for all future SRPC RE Sub-Committee communications.**

Deliberations

No comments were received from any of the entities on the issued MoM and the minutes of the meeting were accordingly confirmed.

SRPC informed that, vide email dated 12.06.2026, the contact details of nodal persons of RE generators, as available with SRPC/SRLDC, were circulated to facilitate dissemination of communications related to the SRPC RE Sub-Committee and other RE-related matters.

All concerned entities were requested to review the details and intimate SRPC and SRLDC in case any updates are required due to changes in the nominated nodal person, contact details, or other organizational changes. To ensure continuity and seamless dissemination of communications, entities were further requested to promptly inform SRPC (seoprnsrpc-ka@nic.in, srpc.operation@gmail.com) and SRLDC (srlcremcompn@grid-india.in) of any subsequent changes arising due to transfer, resignation, retirement, or separation of the existing nodal person from the organization, along with the details of the successor nodal person.

SRPC further informed that the RE Sub-Committee comprises the following categories of members:

1. Regional RE Entities;
2. Regional RE Park Developers;
3. State RE Generators having installed capacity of 250 MW and above;
4. Major Solar and Wind Associations having presence in the Southern Region; and
5. Representative of SECI.

RE entities fulfilling the above criteria but not presently receiving communications pertaining to the SRPC RE Sub-Committee were requested to intimate SRPC so that they may be included in the mailing list for future communications.

It was further informed that notices and communications regarding meetings are being disseminated through emails as well as telephonic follow-up. All eligible entities were requested to ensure participation in the meetings, and it was emphasized that continued non-participation would be viewed seriously and taken as non-compliance.

Conclusion/Action Points

- **Minutes of the 4th RE sub-committee meeting are confirmed.**
- **All RE entities were requested to ensure timely updation of nodal contact details and active**

participation in RE Sub-Committee meetings.

3. Outage of Transmission Lines due to Tower Collapse affecting RE evacuation

The following elements have tripped on tower collapse due to inclement weather in May 2026:

Element Name	Reason	Tripping Time	Restoration Time
220KV-GADAG_PSS-Vena_GadagPS-1	5 Nos. of 220 kV transmission towers have collapsed near <u>Kushtagi</u>	2026-05-17 16:14	Outage still going on
220KV-GADAG_PSS-Green Infra_GadagPS-1	5 Nos. of 220 kV transmission towers have collapsed near <u>Kushtagi</u>	2026-05-17 16:16	Outage still going on
400KV-GADAG_PSS-KOPPAL-1	Tower location number 52-64 collapsed	2026-05-23 18:13	Outage still going on
400KV-GADAG_PSS-KOPPAL-2	Tower location number 52-64 collapsed	2026-05-23 18:13	Outage still going on

During the tripping of 220 kV Gadag_PSS lines, there was a generation loss of 82 MW from 220 kV Vena_GadagPS and 70 MW from Green Infra_GadagPS.

Further, due to tower collapse, evacuation from GADAG_VENA with an installed capacity of 160 MW and Green Infra with an installed capacity of 98.7 MW could not be carried out.

A similar incident was observed in May 2025 which adversely effected RE evacuation connected to Gadag PS

Element Name	Reason	Tripping Time	Restoration Time
400 kV Gadag–New Narendra D/C Line (GTL)	Collapse of 5 towers	2025-05-13 15:00	2025-06-29 01:55 & 01:57

The recurrence of such incidents underscore the need for enhanced vigilance and preparedness to mitigate the impact of such events on the transmission system. All concerned entities are advised to strengthen preventive maintenance and patrolling.

In view of the above, the following measures are recommended:

1. Renewable Energy (RE) developers may enter into mutual arrangements with nearby Transmission Licensees for sharing of Emergency Restoration System (ERS) facilities, wherever feasible, to provide temporary restoration of transmission connectivity and facilitate evacuation of RE power until permanent restoration works are completed.
 2. RE developers in a particular area/cluster may jointly procure and maintain an adequate number of ERS units on a standby basis, to be deployed on a shared basis in the event of tower collapse or any other contingency affecting the transmission network and power evacuation.
- **Forum may deliberate**
 - **Gadag IIA Transmission Limited, Vena_GadagPS and Green Infra_GadagPS may update on the following:**
 - **Status of work progress**

- **Present status of the restoration work and materials availability at site**
- **Availability of ERS**

Deliberations

- ❖ Vena Energy informed that erection works of all 5 transmission towers were completed and stringing works are presently in progress. The 220 kV Gadag_PSS-Vena_GadagPS transmission line is expected to be charged by 26th/27th June 2026.
- ❖ Green Infra stated that the timelines of restoration of 220 kV Gadag_PSS-Green Infra_GadagPS is expected to be similar to that of Vena Energy line, as both are strung on the same D/C towers. Stringing works are in progress and the line is expected to be charged by 26th/27th June 2026.
- ❖ Gadag IIA TL informed that the feasibility of deploying an Emergency Restoration System (ERS) was examined following the tower collapse incident. However, considering that 13 transmission towers had collapsed, restoration through ERS necessitated a substantial number of ERS structures. It was further informed that suitable vendors with the capability and resources to undertake restoration of such a large affected section through ERS were explored but not available. Therefore, permanent restoration of the transmission line was taken up. Restoration activities are in progress and that the status of works along with the expected charging date would be communicated to the forum through email.

SRPC noted that a similar incident involving collapse of five towers of the 400 kV Gadag–New Narendra D/C line (GTL) had occurred in May 2025, which had adversely affected evacuation of renewable energy connected to Gadag PS. The line remained out of service from 13.05.2025 and was restored on 29.06.2025.

In view of the concentration of RE developers in the Gadag area and the recurrence of tower collapse incidents affecting power evacuation, the forum observed that maintaining Emergency Restoration System (ERS) facilities on a standby basis may be explored to facilitate temporary restoration of transmission connectivity during restoration activities.

Accordingly, the following preparedness measures were suggested:

1. RE developers may explore mutual arrangements with nearby Transmission Licensees for sharing of Emergency Restoration System (ERS) facilities, wherever feasible, to facilitate temporary restoration of transmission connectivity and evacuation of RE power until permanent restoration works are completed.
2. RE developers within a particular area or cluster may jointly procure and maintain an adequate number of ERS units on a standby basis, which may be deployed on a shared basis in the event of tower collapse or any other contingency affecting the transmission network and power evacuation.

Conclusion/Action Points

- **Gadag IIA TL, Vena Energy and Green Infra were requested to expedite the ongoing restoration works and ensure early restoration of the affected transmission lines.**
- **RE developers may explore maintaining ERS facilities on shared basis among RE developers or through mutual agreement with nearby Transmission Licensees, to facilitate temporary restoration during contingencies.**

4. Non-compliance of IEGC-2023 Regulation 40 on Periodic Testing of Non-synchronous Generators (Solar/Wind)

As per provisions of Regulation 40 of IEGC-2023 the following are mandated:

Regulation 40 (2) (a):

“The owner of the power system element shall be responsible for carrying out tests as specified in these regulations and for submitting reports to NLDC, RLDCs, CEA and CTU for all elements and to STUs and SLDCs for intra-State elements.”

Regulation 40 (2) (b):

“All equipment owners shall submit a testing plan for the next year to the concerned RPC by 31st October to ensure proper coordination during testing as per the schedule. In case of any change in the schedule, the owners shall inform the concerned RPC in advance.”

Regulation 40 (2) (c):

“The tests shall be performed once every five (5) years or whenever major retrofitting is done. If any adverse performance is observed during any grid event, then the tests shall be carried out even earlier, if so advised by SLDC or RLDC or NLDC or RPC, as the case may be”

The following tests are specified in IEGC 2023 for Non synchronous Generator (Solar/Wind):

- (1) Real and Reactive Power Capability for Generator
- (2) Power Plant Controller Function Test
- (3) Frequency Response Test
- (4) Active Power Set Point change test.
- (5) Reactive Power (Voltage / Power Factor / Q) Set Point change test

In this regard, it is observed that periodic testing of generating units, as mandated under Regulation 40 of IEGC-2023, has not been carried out by a large number of generators. The matter has been continuously highlighted and sensitized through the standing agenda in OCC meetings since 207th meeting held in October-2023 and 49th TCC/ 52nd SRPC meeting held in August-2024.

All the concerned entities are requested to conduct the mandated testing and ensure completion of the same in a phased manner, such that the testing activities are appropriately distributed over the remaining period till March 2029 and not accumulate towards the end of the prescribed five-year cycle (2024-29).

- **All the concerned entities are requested to furnish the testing schedules immediately with SRPC Secretariat for necessary co-ordination and monitoring and comply with IEGC provisions. It is stated that non-conduct of periodic testing shall be treated as non-compliance of Regulation 40 of IEGC-2023.**

Deliberations

SRPC appraised the forum regarding the periodic testing requirements stipulated under Regulation 40 of IEGC-2023.

SRLDC informed that the tests prescribed under the periodic testing framework are generally carried out during commissioning as part of the First Time Charging (FTC) requirements. However, generating stations are required to undertake the prescribed periodic tests before completion of five years from their COD. It was further clarified that generating stations commissioned prior to 01.04.2024 are required to complete the periodic tests within the first five-year testing cycle prescribed under IEGC-2023, i.e., during the period from April 2024 to March 2029. The details of the generating stations and the corresponding due dates for carrying out the tests were presented by SRLDC (placed at Annexure-4a).

SRLDC also briefed the forum on the testing requirements and the guidelines issued by NLDC for Periodic Testing of Power System Elements (placed at *Annexure-4b*).

M/s Solvina made a presentation on the tests mandated under the periodic testing framework and shared its experience in carrying out such tests for various generating stations. The presentation is placed at *Annexure-4c*.

Conclusion/Action points

- All concerned entities are requested to furnish their testing schedules to SRPC Secretariat immediately for necessary co-ordination and monitoring.
- RE generators are requested to ensure compliance with the periodic testing requirements specified under Regulation 40 of IEGC-2023 and the associated NLDC guidelines.

5. Importance of PMU Data availability from Variable Renewable Energy (VRE) Generating stations

NLDC vide letter dated 04.06.2026 (*Annexure-A*), addressed Additional Secretary (Min of NRE), has highlighted the critical importance of Phasor Measurement Unit (PMU) data availability from VRE generating stations for real time grid operation. NLDC has also requested to advise all RE developers to ensure 100% availability of PMU data from their generating plants to SLDCs/RLDCs/NLDC.

- Forum may note

Deliberations

The critical importance of continuous and reliable PMU data from VRE generating stations for real-time monitoring and assessment of grid conditions was deliberated. It was highlighted that PMU data is particularly important with increasing RE penetration for assessing system strength, voltage stability, oscillations, dynamic behaviour and response of inverter-based resources during grid disturbances.

The status of data availability of PMUs wrt Southern Region during the period January 2026 to March 2026 was highlighted as follows:

Southern Region			
1	GRTJL	GRT JEWELLERS	98.31
2	RSRPL	RENEW SURYA ROSHINI	98.2
3	ETYPM	ETTAYPURAM	98.21
4	CPSS4	CENTRAL POOLING STATION	98.2
5	RSOPL	RENEW SURYA OJAS PRIVATE LIMITED	98.17
6	KLEIH	KLEIO PSS	98.14
7	KLEIO	KLEIO CSS	98.14
8	GIWPL	Green Infra Wind Power Limited,	97.95
9	SAEL1	SAEL	97.68
10	ZNTRS	ZENETARIES	97.22
11	VEVPL	Vena Energy Vidyuth Private Limited, Gadag	95.24
12	TPREL	Tata power renewable energy ltd, NP Kunta	93.88
13	TPREL	Tata power renewable energy ltd, NP Kunta	93.88
14	SRNTH	SERENTICA HYBRID	93.61
15	IRCON	IRCON	93.58
16	JSWF2	JINDHAL SOUTH WEST 2	92.65
17	AYANA	AYANA	85.91
18	GRNKO	Greenko, Kurnool	85.22
19	OSTRO	HIRIYUR_OSTROKANNADA	52.25

Conclusion/Action Points

- RE plants were requested to ensure 100 % availability of PMU data from their plants to SLDCs/SRLDC/NLDC

- **Intra state VRE plants were requested to install PMUs at their station and coordinate with respective Load Despatch Centre for flow of data to them**

6. Telemetry of Good quality weather data from Renewable Energy Plants

NLDC vide letter dated 04.06.2026 (**Annexure-B**), addressed Additional Secretary (Min of NRE), has highlighted the importance of availability of accurate and reliable weather data from Renewable Energy (RE) plants for improving forecasting accuracy, scheduling, and secure grid operation. NLDC has requested MNRE to advise RE developers to undertake the following:

- a) Rectifying issues to improve the data quality of weather data telemetered SLDCs/RLDCs/NLDC.
- b) Regular maintenance and calibration of weather measuring instruments.
- c) Establishment of monitoring mechanisms at RE developer end to periodically review the healthiness of the telemetry system and the quality of the data.
- d) Sharing of weather data from RE plants connected at intra state level either directly to NCMRWF through Secure File Transfer Protocol (SFTP) or through SLDCs/RLDC/NLDC.
- e) Installation of Automatic Weather Station (AWS) in new RE plants of capacity greater than 10 MW.

Deliberations

The importance of availability of accurate, reliable and continuous weather data from RE generating stations was highlighted. It was observed that quality weather data is essential for improving the accuracy of RE generation forecasting and scheduling, particularly in view of the increasing penetration of solar and wind generation in the grid. The participants were informed that deficiencies in weather data, including erroneous, missing or stale data, can adversely affect forecasting and consequently impact real-time grid operation.

The need for regular maintenance and calibration of weather measuring instruments, periodic monitoring of the healthiness of the telemetry system and timely rectification of data quality issues was emphasised. The requirement for installation of Automatic Weather Stations (AWS) in new RE plants of capacity greater than 10 MW and the sharing of weather data from intra-State RE plants through the prescribed mechanism was also highlighted.

- **The Forum noted the deliberations and appreciated the intent of the NLDC communication towards improving the quality and availability of weather data for effective RE forecasting and secure grid operation.**
- **Re Developers needed to ensure accurate, reliable and continuous weather data installation of AWS and sharing of weather data to NCMRWF through Secure File Transfer Protocol (SFTP).**

7. Uniform Anti-Islanding Protection Philosophy of Connected RE Plants

In the 16th NPC meeting, forum noted the certain instances of mal-operation of anti-islanding features of inverters of some Renewable Energy (RE) plants. It was opined that such mal-operations may be attributed to low set values of sensing parameters or voltage distortions during system disturbances.

However, it was emphasized that false detection of an unintended island, which does not actually exist, cannot be considered a valid justification for non-compliance with grid support requirements as stipulated in the applicable Grid Codes and regulations.

- **Entities may collect the necessary details as deliberated above from OEM regarding the islanding philosophy and furnish to SRPC and SRLDC.**

Deliberations:

SRPC informed the Forum that the issue pertaining to a Uniform Anti-Islanding Protection Philosophy for connected RE plants had also been deliberated in the 4th RE Sub-Committee Meeting. RE entities were requested to obtain the necessary details from the respective OEMs regarding the implemented islanding philosophy, including the logic adopted, sensing parameters, set values and operating criteria, and furnish the same to SRPC and SRLDC.

It was highlighted that, with increasing penetration of inverter-based RE generation, proper coordination of anti-islanding protection with the **grid protection philosophy and system operating conditions** is important. The possibility of mal-operation due to inappropriate settings, voltage/frequency disturbances or other system conditions needs to be examined to ensure that the protection operates only under the intended conditions.

Forum noted that **false detection of islanding should not result in blocking or compromising the required grid-supporting functions** of the RE plant during system disturbances. The implemented protection philosophy and its settings should therefore be reviewed in coordination with the OEM, wherever required.

SRPC informed that, as of **24.06.2026**, no RE entity had furnished the required details to SRPC.

The RE entities were advised to expedite the collection of the required information from their respective OEMs, particularly regarding the islanding detection logic, relevant sensing parameters and their set values, and furnish the details to SRPC and SRLDC for further examination and appropriate action.

Conclusion/Action Points

- **Entities are requested to collect the necessary details as deliberated above from OEM regarding the islanding philosophy and furnish to SRPC and SRLDC**

8. Internal Protection Audit of Sub stations

Clause (5) of Regulation 15 of IEGC Regulations, 2023 stipulates the following:

Quote

- (1) *All users shall conduct internal audit of their protection systems annually, and any shortcomings identified shall be rectified and informed to their respective RPC. The audit report along with action plan for rectification of deficiencies detected, if any, shall be shared with respective RPC for users connected at 220 kV and above (132 kV and above in NER).*
- (2) *All users shall also conduct third party protection audit of each sub-station at 220 kV and above (132 kV and above in NER) once in five years or earlier as advised by the respective RPC.*

.....

- (5) *Annual audit plan for the next financial year shall be submitted by the users to their respective RPC by 31st October. The users shall adhere to the annual audit plan and report compliance of the same to their respective RPC."*

8.1 Internal Protection Audit Reports 2025-26

In the 141st PCSC meeting SRPC requested all utilities to submit the pending internal audit reports by 15.04.2026.

The Summary of Reports Received for Internal audit for FY 2025-26 is as below

Internal Audit reports of RE-ISTS

Name of Utility	Total No. of Substations of 220kV & above	No. of Substations Internal Audit Reports Submitted
APSPCL	7	0
Arcelor Mittal Green Energy Pvt Ltd (AMGEPL)	2	0
AYANA Renewable	2	1
GREENINFRA	1	1
GREENKO	4	0
GRT Jewellers (India) Pvt Ltd	1	0
JSW-RE	5	5
KLEIO SOLAR	2	0
KSPDCL	8	8
MYTRAH	1	0
NTPC Green	1	0
RENEW	4	0
SAEL Solar	2	0
Sembcorp Green Infra Limited	1	0
Serentica Renewables India Pvt Ltd	4	0
SPRNG Renewable Energy	1	0
TATA POWER (TP Saurya / TP Vardhaman)	2	0
Vena Energy	1	1
Vivid Solaire Energy Pvt Ltd	1	1
Zenataris Renewable Energy	1	0

8.2 Internal Audit Plan 2026-27

1. In line with the Clause (5) of Regulation 15 of IEGC Regulations, all entities were requested to submit the annual audit plan for the substations 220 kV and above voltage level for FY 2026-27 to SRPC by 31.10.2025
2. All RE ISTS entities are requested to immediately update Internal Audit Plan for FY 2026-27 in the Zoho form shared
3. The following RE ISTS entities are yet to submit the Internal Audit Plan for 2026-27.

S.No	RE Entity	Total Stations (220kV & Above)	Internal Plan Audit Furnishing status
1	KSPDCL	8	Yes ✓
2	JSW - RE	5	Yes ✓
3	GREENKO	4	Yes ✓
4	Serentica Renewables India Pvt Ltd	4	No ✗
5	RENEW	4	No ✗

6	APSPCL	5	Yes ✓
7	Arcelor Mittal Green Energy Pvt Ltd (AMGEPL)	2	Yes ✓
8	KLEIO SOLAR	2	Yes ✓
9	SAEL Solar	2	Yes ✓
11	AYANA Renewable	2	No ✗
12	Vena Energy	1	Yes ✓
13	Zenataris Renewable Energy	1	No ✗
14	Sembcorp Green Infra Limited	1	Yes ✓
15	Vivid Solaire Energy Pvt Ltd	1	Yes ✓
16	GRT Jewellers (India) Pvt Ltd	1	Yes ✓
17	GREENINFRA	1	No ✗
18	SPRNG Renewable Energy	1	Yes ✓
19	TATA POWER (TP Saurya / TP Vardhaman)	2	Yes ✓
20	MYTRAH	1	Yes ✓
21	NTPC Green	1	Yes ✓
22	APSPCL	7	Yes ✓

- **All RE-ISTS entities are requested to furnish the Internal Audit Plans for 2026-27 Immediately.**

Deliberations/Updates during the meeting:

The Forum was apprised of the status of submission of Internal Protection Audit Reports for FY 2025-26 by the RE-ISTS entities. It was observed that a number of RE entities are yet to furnish the prescribed audit reports, despite earlier requests from SRPC. The importance of conducting the internal protection audit in a timely manner was emphasised, as the audit provides an opportunity to identify deficiencies in protection settings, relay performance, communication interfaces, DC systems and coordination of protection schemes, thereby enhancing the reliability of the grid.

The Forum was also apprised of the status of submission of the Internal Protection Audit Plan for FY 2026-27. The pending RE entities were advised to furnish/update their audit plans immediately and adhere to the submitted schedule. It was further emphasised that completion of the audit alone is not sufficient; deficiencies identified during the audit should be rectified within the stipulated timeframe and compliance reported to SRPC

Name of Utility	Deliberations
APSPCL	No response from the APSPCL
Arcelor Mittal Green Energy Pvt Ltd (AMGEPL)	1. AMGEPL informed that the Internal Protection Audit for FY 2025–26 has been conducted and the audit report shared to SRPC in August 2026 and November 2026.

	2.AMGEPL further informed that the Third-Party Protection Audit was completed in January 2026 and the audit report would also be furnished before the next RE Sub-Committee Meeting.
AYANA Renewable	1.AYANA informed that the Internal Protection Audit for FY 2025–26 had not been carried out. However, AYANA informed that the Internal Protection Audit for FY 2026–27 had been conducted at the AYANA NP Kunta site. 2.AYANA was advised to comply Clause (5) of Regulation 15 of IEGC Regulations, 2023.
GREENINFRA	1.GREENINFRA informed that schedule for the internal protection audit for FY 2026-27 would be updated by 24.06.2026
GREENKO	1.GREENKO informed that the Internal Protection Audits for its substations were planned in FY 2026–27, as the substations were commissioned during FY 2025–26. 2.GREENKO further informed that the Internal Protection Audit for FY 2026–27 was planned to be conducted in July 2026.
GRT Jewellers (India) Pvt Ltd	1. GRT Solar informed that the Internal Protection Audit for FY 2025–26 had been conducted and the audit report would be furnished by the end of July 2026.
KLEIO SOLAR	1. KLEIO SOLAR informed that the Internal Protection Audit for FY 2025–26 had been conducted and the audit report shared to SRPC in May 2026.
MYTRAH	1.MYTRAH informed that the Internal Protection Audit for FY 2025–26 had been conducted and the audit report would be shared to SRPC at the earliest. 2.MYTRAH was advised to furnish the compliance status of the Communication Audit recommendations for FY 2024–25. SRPC also observed that there was no representation from MYTRAH in the COMSR meetings and advised MYTRAH to ensure participation in the COMSR meetings henceforth. 3.MYTRAH informed that they would furnish the updated compliance status of the Communication Audit recommendations for FY 2024–25 after obtaining the necessary details from the concerned site officials.
NTPC Green	1.NTPC Green informed that the Internal Protection Audit for FY 2025–26 had been conducted and the audit report shared to SRPC in March 2026.
RENEW	1. RENEW informed that the Internal Protection Audit for FY 2025–26 had been conducted and the audit report shared to SRPC in 24.06.2026. 2. SRPC enquired about the long-pending issue pertaining to the Auto-Reclosure (AR) function of the 220 kV Koppal–Renew Surya line. 3. RENEW informed that the issue had been taken up with the OEM and that the OEM’s site visit is awaited for further investigation and resolution of the issue.
SAEL Solar	1. SAEL Solar informed that the SAEL Solar plants were commissioned in January 2026 and that internal audits are planned to be conducted from FY 2026–27 onwards.
Sembcorp Green Infra Limited	1. Sembcorp Green Infra Limited informed that the Internal Protection Audit Report would be shared by the end of June 2026.
Serentica Renewables India Pvt Ltd	1. Serentica Renewables informed that all the Four substations Serentica Renewables India Pvt Ltd were commissioned in September 2025 and November 2025 and that internal audits are planned to be conducted from FY 2026–27 onwards.

SPRNG Renewable Energy	1. SPRNG Renewable Energy informed that the Internal Protection Audit for FY 2025–26 had been conducted and the audit report shared to SRPC.
TATA POWER (TP Saurya / TP Vardhaman)	1. TATA POWER informed that the TP Saurya / TP Vardhaman plants were commissioned in January 2026 and that internal audits are planned to be conducted from FY 2026–27 onwards.
Zenataris Renewable Energy	1. Zenataris Renewable Energy informed that Substations were the commissioned in May 2025 and that internal audits are planned to be conducted from FY 2026–27 onwards. 2. Zenataris also informed that they would share the schedule for internal protection audit 2026-27.

9. Issue of Non-recording of Night Drawal in the Meter

9.1 It has been observed that the meters installed on the 33 kV feeders of M/s Athena Bhiwadi Solar Power Pvt. Ltd., M/s Athena Hisar Solar Power Pvt. Ltd. and M/s Athena Karnal Solar Power Pvt. Ltd. at the Pavagada Pooling Station, which are used for computation of actual data, are not recording night drawal for certain time blocks. The above RE Generators are requested to replace all such meters at the earliest.

9.2 Non-recording of drawal results in additional commercial burden on other RE generators connected to the pooling station. The issue was deliberated in various CCM meetings and an appropriate methodology has been finalized.

9.3 Accordingly, to avoid additional commercial burden on other entities connected to the pooling station, the zero values have been replaced with the corresponding maximum drawal for the respective blocks, duly considering the installed capacity, and the revised data is being considered for DSM computation. The same has been discussed in various forums and suitable actions are yet to be taken by M/s Athena.

9.4 In the 04th RE sub-committee meeting, the forum recommended M/s Athena to resolve the meter issues by 31st March 2026. Still the non-recording of the data is observed.

➤ *M/s Athena may update on the status.*

Deliberations:

9.5 The Forum noted that M/s Athena had earlier been advised in the 4th RE Sub-Committee Meeting to resolve the meter-related issues by **31.03.2026**. However, instances of non-recording continue to be observed, indicating that the issue has not yet been fully resolved. M/s Athena was therefore advised to take immediate corrective action, replace/rectify all defective meters and ensure reliable recording of drawal data without further delay.

9.6 M/s Athena informed that they will proceed with the replacement of the meters. SRPC requested M/s Athena to furnish the replacement schedule/timeline to SRPC and SRLDC. SRLDC advised that the meters may be replaced sequentially, one at a time, to ensure continuity of metering and data availability.

9.7 SRLDC suggested to replace the meters of M/s Athena which were not recording at night time. After meter replacement, the CT ratio details may kindly be shared with SRLDC to facilitate the necessary modifications in the metering software.

9.8 SRLDC confirmed that, apart from these three entities, no other RE generator has been identified with discrepancies. It was also informed that if any other entities with similar discrepancies were identified, the same would be brought to the notice of forum.

- *After deliberations, Forum recommended M/s Athena to replace the meters at the earliest.*

10. Operational Aspects (SRLDC agenda)

10.1 Automatic Disconnection of ESS & Pump hydro (pumping mode) before the first stage of UFR

Note-2 of Regulation 29(12) of the Indian Electricity Grid Code (IEGC) 2023, stipulates the following:

“Pumped storage hydro plants operating in pumping mode or ESS operating in charging mode shall be automatically disconnected before the first stage of UFR.”

On 13.05.2026, frequency touched 49.40 Hz at 14:09 Hrs, due to solar generation loss in the Western Region. Subsequently, the frequency recovered to around 49.55 Hz, initially aided by the operation of Under Frequency Relays (UFRs). However during the event, 1800 MW of pumping load was in operation in Southern region, it was observed that these pumping loads did not disconnect before the first stage of UFR.

It is also pertinent to mention deliberations in the 52nd Meeting of TCC and 55th Meeting of SRPC held at Udaipur on 25th and 26th July 2025, regarding Automatic Under Frequency Load Shedding (AUFLS) and df/dt scheme. Relevant extract from Minutes of the Meeting is as below:

Quote

XII. c) The AUFLS scheme must ensure Pumped storage hydro plants operating in pumping mode (at 49.5 Hz) or ESS operating in charging mode (at 49.6 Hz) shall be automatically disconnected before the first stage of UFR.

XII d) Bulk consumers connected to ISTS and STU networks must implement the UFR scheme. Compliance should be ensured during the grant of connectivity by CTU and STU.

Unquote

- **In view of the above, all PSPs and BESS operators are requested to review and modify the protection settings in line with the approved AUFLS scheme and provisions of the IEGC 2023.**
- **In this regard, RSOPL Koppal is requested to furnish the present status of implementation and compliance of the aforesaid settings at the earliest.**
- **New upcoming ESS shall also take note of the above requirements and ensure incorporation of the prescribed AUFLS settings and protection schemes in case of integration of BESS and PSP facilities.**

Deliberations

The Forum was apprised of the requirement under Note-2 of Regulation 29(12) of the IEGC, 2023, for automatic disconnection of pumped storage hydro plants operating in pumping mode and ESS operating in charging mode before the first stage of UFR. The significance of this requirement was particularly highlighted in the context of the grid event of 13.05.2026, during which the system frequency declined to 49.40 Hz following loss of solar generation in the Western Region.

It was observed that approximately 1800 MW of pumping load was in operation in the Southern Region during the event, and such pumping loads did not disconnect before the first stage of UFR as envisaged. The Forum noted that continued pumping/charging load during a low-frequency condition can aggravate the frequency decline and increase the burden on the AUFLS/UFR scheme, thereby adversely affecting system security.

The earlier deliberations in the 52nd TCC and 55th SRPC meetings regarding the requirement for PSPs operating in pumping mode and ESS operating in charging mode to automatically disconnect at the prescribed frequency levels were also reiterated. The need for uniform implementation, verification and periodic testing of the prescribed protection settings by all concerned entities was emphasised.

RSOPL Koppal was specifically requested to furnish the present status of implementation and compliance of the prescribed settings. All PSP and BESS operators were advised to review their protection schemes and settings in coordination with the concerned SLDC/SRLDC and ensure that the required automatic disconnection logic is actually available and operational.

It was further emphasised that upcoming PSP and BESS projects should incorporate these requirements at the design and commissioning stage itself, so that the prescribed AUFLS/UFR philosophy is fully coordinated with the overall grid protection scheme.

Conclusion

- a) **All PSPs and BESS entities shall review and modify, wherever required, their protection settings/logic in line with the IEGC, 2023 and the approved AUFLS scheme, and ensure automatic disconnection before the first stage of UFR.**
- b) **RSOPL Koppal shall furnish the present status of implementation and compliance of the prescribed settings to SRPC/SRLDC at the earliest.**
- c) **The concerned SLDCs/SRLDC shall ensure verification/testing of the implemented scheme and settings, wherever applicable, to ensure their actual operation during low-frequency conditions.**

10.2 Details regarding Infirm Power Injection

As per IEGC Clause 19(7) The onus of proving that the interchange of infirm power from the unit(s) of the generating station is for the purpose of pre-commissioning activities, testing and commissioning, shall rest with the generating station, and the concerned RLDC shall seek such information on each occasion of the interchange of power before COD. For this, the generating station shall furnish to the concerned RLDC relevant details, such as those relating to the specific commissioning activity, testing, and full load testing, its duration and the intended period of interchange. The generating station shall submit a tentative plan for the quantum and time of injection of infirm power on day ahead basis to the respective RLDC.

All the Infirm Injecting Generators are requested to give the details as per format attached (Annexure-1) on Day ahead basis for obtaining the Code from the Control Room.

Deliberations

The importance of furnishing the quantum, duration, nature of commissioning/testing activity and intended period of infirm power injection on a day-ahead basis was emphasised. Timely availability of this information is essential for the RLDC to assess the expected injection, facilitate secure real-time grid operation and maintain proper coordination with the concerned SLDC and generating station. It was also clarified that the day-ahead information would enable the Control Room to verify the proposed injection against the declared commissioning activity and facilitate issuance of the appropriate code/permission for interchange of infirm power. Any changes in the quantum or duration of injection should also be promptly communicated to the concerned Control Room/RLDC.

Conclusion / Action Point

All generators injecting infirm power were requested to furnish the details of the proposed quantum, duration and commissioning/testing activity in the prescribed format on a day-ahead basis to the concerned Control Room/RLDC for obtaining the necessary code. Strict compliance with the procedure prescribed under IEGC, 2023 shall be ensured.

10.3 IEGC Regulation 45 clause (11) Scheduling of WS seller and ESS by QCA:

(a) The regional entity renewable energy generating station(s) or Projects based on energy storage system(s) connected at a particular ISTS substation or at multiple ISTS substations located in a State may appoint a QCA on their behalf to coordinate and facilitate scheduling for such generating stations or energy storage system(s). The responsibility of QCA is listed at Annexure-6 to these regulations.

The roles and responsibilities of the QCA, as highlighted in the regulations, must be strictly followed.

For information to all:

Pooling Station	QCA	Plant Details	Type	Capacity	Plant Addition to QCA Date	Scheduling Date
Pavagada (Solar)	REConnect	1.YARROW INFRASTRUCTURE PRIVATE LIMITED-50 MW	Solar	1350	29-07-2025	03-08-2025
		2.PARAMPUJYA SOLAR ENERGY PVT LTD-150 MW	Solar		29-07-2025	03-08-2025
		3.ADANI SOLAR ENERGY KANINE PRIVATE LIMITED-200 MW	Solar		29-07-2025	03-08-2025
		4.AVAADA SOLAR ENERGY PVT LTD-150 MW	Solar		29-07-2025	03-08-2025
		5.AVAADA SOLARISE ENERGY PVT LTD-150 MW	Solar		29-07-2025	03-08-2025
		6.ADYAH SOLAR ENERGY PVT LTD-300 MW	Solar		29-07-2025	03-08-2025
		7.AMPLUS TUMKUR SOLAR ENERGY ONE PVT LTD-50 MW	Solar		29-07-2025	03-08-2025
		8.AMPLUS PAVAGADA SOLAR ENERGY TWO PVT LTD-50 MW	Solar		29-07-2025	03-08-2025
		9.RENEW WIND ENERGY PVT LTD(TN2)-50 MW	Solar		29-07-2025	03-08-2025
		10. Azure Power Earth Private Limited - 100 MW	Solar		24-11-2025	24-11-2025

Pooling Station	QCA	Plant Details	Type	Capacity	Plant Addition to QCA Date	Scheduling Date
		11.GENTARI RENEWABLES FINNSURYA ENERGY PRIVATE LIMITED - 100 MW	Solar		16-02-2026	16-02-2026
Tuticorin (Wind)	Manikaran Analytics Limited	1.Green Infra Renewable Energy Limited - 249.9	Wind	1760	21-02-2025	24-02-2025
		2.GREENKO SIRONJ WIND POWER PRIVATE LIMITED - 200	Wind		21-02-2025	24-02-2025
		3.VIVID SOLAIRE ENERGY PRIVATE LIMITED - 220	Wind		21-02-2025	24-02-2025
		4.JSW RENEW Energy Limited - 540	Wind		11-07-2025	14-07-2025
		5.JSW RENEW ENERGEY TWO LTD -300	Wind		11-07-2025	14-07-2025
		6.Mytrah Vayu (Sabarmati) Private Limited - 250	Wind		11-07-2025	14-07-2025
NP Kun (Solar)	Manikaran Analytics Limited	1. ADANI SOLAR ENERGY AP SEVEN PRIVATE LIMITED - 250	Solar	1200	25-04-2025	28-04-2025
		2. AYANA ANATHAPURAM SOLAR PRIVATE LIMITED - 250	Solar		25-04-2025	28-04-2025
		3. Tata Power Renewable Energy Limited - 100	Solar		25-04-2025	28-04-2025
		4. INDIGRID SOLAR-I (AP) PRIVATE LIMITED - 50	Solar		25-04-2025	28-04-2025
		5. INDIGRID SOLAR-II (AP) PRIVATE LIMITED -50	Solar		25-04-2025	28-04-2025
		6. NTPC Green Energy Limited (NGEL) Anantpur -250	Solar		14-08-2025	18-08-2025
		7 SPRNG AGNITRA PRIVATE LIMITED -250	Solar		01-12-2025	01-12-2025
KOPPAL (Hybrid)	Manikaran Analytics Limited	1.AYANA RENEWABLE POWER SIX PRIVATE LIMITED -300	Wind	1128.8	05-07-2025	07-07-2025

Pooling Station	QCA	Plant Details	Type	Capacity	Plant Addition to QCA Date	Scheduling Date
		2.Serentica Renewables India 1 Private Limited (Hybrid)-300 (191.4 Solar, 132.3 Wind)	Hybrid		05-07-2025	07-07-2025
		3.Renew Surya Ojas private Limited (Hybrid) - 300 (81 MW Solar, 322 MW wind, 75 MW BESS)	Hybrid		05-07-2025	07-07-2025
		3.TP SAURYA LIMITED - 228.8	Solar		05-07-2025	07-07-2025
Tuticorin (Solar)	Manikaran Analytics Limited	1.NTPC Green Energy Limited (NGEL), Ettayapuram-230MW	Solar	380	20-10-2025	20-10-2025
		2.GRT Jewellers (India) Private Limited-150MW	Solar		20-10-2025	20-10-2025
KARUR (Wind)	Manikaran Analytics Limited	1.JSW RENEW ENERGY LTD (KARUR) - 162	Wind	510	12-01-2026	12-01-2026
		2.JSW RENEW ENERGY TWO LIMITED (KARUR) -150	Wind		12-01-2026	12-01-2026
		3. TP VARDHAMAN SURYA LIMITED - 198 MW	Wind		20-04-2026	20-04-2026

SRLDC apprised the forum of the provisions of Regulation 45(11) of the IEGC, 2023 regarding scheduling of renewable energy generating stations and Energy Storage Systems (ESS) through a Qualified Coordinating Agency (QCA). It was highlighted that the QCA acts as a coordinating interface for the generating stations/ESS connected to the same or multiple ISTS substations within a State and is responsible for facilitating scheduling in accordance with the provisions of the IEGC.

The importance of effective coordination by the QCA was emphasised, particularly with increasing RE and ESS capacity, to ensure accurate forecasting, timely submission of schedules, proper communication of revisions, aggregation of generation/injection and compliance with the scheduling framework. Any deficiencies in coordination or submission of schedules by the QCA can have implications for real-time grid operation and commercial settlement.

SRLDC emphasised that the roles and responsibilities of the QCA specified in Annexure-6 of the IEGC, 2023 shall be strictly adhered to. RE/ESS entities and their appointed QCAs were advised to ensure clear coordination with the concerned SLDC/RLDC and timely compliance with all scheduling and data requirements.

Conclusion / Action Point

All RE/ESS entities and their appointed QCAs were requested to strictly comply with the roles and responsibilities prescribed under Regulation 45(11) and Annexure-6 of the IEGC, 2023, and ensure timely and accurate scheduling, forecasting, communication and coordination with the concerned Load Despatch Centres.

11. Protection Related Aspects (SRLDC Agenda Items)

11.1 Enabling of Auto Reclose:

As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, Auto-Reclosure (AR) is required to be mandatorily enabled for 220 kV and above transmission lines. However, it has been observed that AR is presently disabled for some such lines. The matter requires attention, and AR is to be enabled in compliance with the regulations

Sl.No	Transmission Line	AR Status	Remarks
1	220KV-NP_KUNTA PSS2-NP_KUNTA PSS3-1	Not Enabled	
2	220KV-NP_KUNTA PSS2-NP_KUNTA PSS3-2	Not Enabled	
3	220KV-NP_KUNTA-GALIVVEDU-1	Not Enabled	
4	220KV-NP_KUNTA-GALIVVEDU-2	Not Enabled	
5	220KV-NP_KUNTA-GALIVVEDU-3	Not Enabled	
6	220KV-NP_KUNTA-GALIVVEDU-4	Not Enabled	
7	220KV-NP_KUNTA-NP_KUNTA PSS1-1	Not Enabled	
8	220KV-NP_KUNTA-NP_KUNTA PSS1-2	Not Enabled	
9	220KV-NP_KUNTA-SBENERGY_NPK-1	Not Enabled	
10	220KV-NP_KUNTA-SBENERGY_NPK-2	Not Enabled	
11	220KV-NP_KUNTA PSS3-NP_KUNTA-1	Not Enabled	
12	220KV-NP_KUNTA PSS3-NP_KUNTA-2	Not Enabled	
13	220KV-NP_KUNTA PSS2-NP_KUNTA-1	Not Enabled	
14	220KV-NP_KUNTA PSS2-NP_KUNTA-2	Not Enabled	
15	220KV-PAVAGADA_PG-TIRUMANI2	Not Enabled	
16	220KV-PAVAGADA_PG-TIRUMANI1	Not Enabled	
17	220KV-PAVAGADA_PG-RYCHALU2	Not Enabled	
18	220KV-PAVAGADA_PG-RYCHALU1	Not Enabled	
19	220KV-PAVAGADA_PG-KSPDCL4	Not Enabled	
21	220KV-PAVAGADA_PG-KSPDCL2	Not Enabled	
22	220KV-PAVAGADA_PG-KSPDCL1	Not Enabled	
23	220KV-KOPPAL-Renew Surya Koppal-1	A/R did not operate at RSRPL end	08-03-2026 05:49
24	230KV-PUGALUR-SPRING PUGALUR-1	A/R did not operate at Sprng end	11-03-2026 14:17

SL.N o	Transmission Line	AR Status	Remarks
25	220KV-TP SAURYA LIMITED-KOPPAL-1	A/R did not operate at TP Saurya end	13-03-2026 15:07
27	220KV-KOPPAL-Renew_Surya_Koppal-1	A/R did not operate at RSRPL end	18-03-2026 22:28
28	220KV-GADAG_PSS-Serentica_RI3PL_Gadag_Solar-1	A/R did not operate at Serentica end	23-03-2026 21:58
29	220KV-TP SAURYA LIMITED-KOPPAL-1	A/R did not operate at both ends	25-03-2026 16:23
30	220KV-KURNOOL_PG_III-SAEL2-1	A/R could not operate at Kurnool because DT was sent from SAEL end.	29-03-2026 15:55
31	220KV-GADAG_PSS-Green Infra GadagPS-1	A/R did not operate at Green Infra end	29-04-2026 04:40
32	220kV Vena_GadagPS-Gadag_PSS-1 line	A/R did not operate at Vena end	29-04-2026 05:28
33	220KV-Renew_Surya_Ojas_Koppal_W-KOPPAL-1 line	A/R did not operate at RSOPPL end	15-05-2026 05:20
34	220kV Hiriyrur_Ostro Hiriyrur line	A/R did not operate at Hiriyrur Ostro end	18-05-2026 21:28
35	230KV-TTGS-Ettayapuram-1	Non operation of A/R at both ends due to differential intertrip	24-05-2026 13:21

Respective RE Users shall furnish their response and update on the present status along with an action plan for enabling Auto-Reclosure (AR) at the earliest

Deliberations:

- SRLDC apprised of the requirement for enabling Auto-Reclosure (AR) on 220 kV and above transmission lines as stipulated in the CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022.
- The importance of AR in maintaining system reliability and continuity of power supply was highlighted. A significant proportion of faults on overhead transmission lines are temporary in nature, mainly due to lightning, transient contact with vegetation, birds or other momentary disturbances. Auto-Reclosure enables the circuit breaker to automatically re-energise the line after clearing such transient faults, thereby minimising outage duration, maintaining transmission corridor availability and improving system stability.
- It was further highlighted that AR is particularly important for **RE evacuation corridors**, where prolonged tripping of transmission lines can result in loss of evacuation capability, generation backing down and increased loading on parallel transmission elements. At the same time, the AR scheme needs to be properly coordinated with the protection system and system conditions to avoid unsuccessful reclosure or adverse impact on equipment.
- The Forum noted that AR is presently disabled for some 220 kV and above transmission lines and emphasised the need for review and restoration of the AR functionality wherever required, in accordance with the applicable standards and the protection philosophy.
- SRLDC sought clarifications from Renew, SPRING, TP Saurya Limited, Serentica, SAEL, Green Infra, Veena Gadag PS, NTPC Ettayapuram and Spring Pugalur regarding the non-operation of Auto Reclose (AR) on the identified 220/230 kV transmission lines.
- Spring Pugalur informed that the AR function is enabled. However, due to the ongoing high wind season, testing could not be carried out. It was informed that AR testing would be undertaken after the wind season.

- Serentica (RI3PL Gadag Solar) informed that the AR function is enabled. The issue of non-operation has been taken up with the relay service engineer, and the root cause analysis report is awaited.
- Veena Gadag PS informed that the AR function had operated successfully in September and is presently in the enabled condition. With regard to the non-operation during the April incident, it was informed that the matter would be examined in consultation with the relay engineer.
- TP Saurya Limited informed that the AR function has been enabled recently; however, testing of the AR scheme has not yet been completed.
- RENEW informed that the matter has been taken up with the OEM for verification and testing of the AR scheme.

Actionable Points:

- All concerned transmission utilities and RE developers were requested to review the status of Auto-Reclosure on 220 kV and above transmission lines and ensure that AR is enabled, wherever applicable, in compliance with the CEA Regulations and coordinated protection philosophy. Any deviations/constraints in enabling AR shall be examined and resolved in consultation with the concerned RPC/SLDC/RLDC.
- Renew, SPRING, TP Saurya Limited, Serentica, SAEL, Green Infra, Veena Gadag PS, NTPC Ettayapuram and Spring Pugalur to ensure that the Auto Reclose (AR) function is enabled, tested, and maintained in healthy operating condition on all applicable 220/230 kV transmission lines.

11.2 Submission of Monthly Protection Performance Indices (PPI) for tripping of RE connected 220kV/230kV lines:

As per protection Protocol of SRPC 2023 (prepared in line with CERC IEGC Regulations 2023), users/entities shall submit the protection performance indices of previous month to SRPC and SRLDC on monthly basis for 220kV and above by **15th of the subsequent month in SPHOORTI portal of SRLDC.** In this regard, list of RE users who have not furnished PPI during Jan 2026 to March 2026 are given below:

Respective RE Users shall respond:

Utility	Jan-26	Feb-26	Mar-26
AMGEPL	Verified	Verified	Verified
APSPCL	Verified	Verified	Verified
Ayana Renewable Power Six Pvt Ltd	Verified	Verified	Verified
BETAMWIND	Not Verified	Not Verified	Verified
GREENINFRA	Verified	Verified	Verified
GREENKO	Verified	Verified	Verified
GRT	Verified	Not Verified	Not Verified
HIRIYUR_ZREPL	Verified	Verified	Not Verified
JSW_RE	Verified	Verified	Verified
KLEIO_SOLAR	Not Verified	Not Verified	Not Verified
KSPDCL	Verified	Verified	Not Verified
MYTRAH	Verified	Not Verified	Not Verified
ORANGE	Verified	Verified	Verified

OSTRO_KANNADA	Verified	Verified	Not Verified
PVG_IRCON_S	Verified	Verified	Not Verified
RENEW POWER PVT LTD	Not Verified	Verified	Not Verified
SAEL	Not Verified	Not Verified	Not Verified
SERENTICA_RI1PL	Verified	Verified	Not Verified
Spring_Pugalur	Verified	Verified	Verified
TATA	Verified	Verified	Verified
Vena_GadagPS	Verified	Verified	Verified

Deliberations:

- SRLDC reiterated the importance of timely submission of PPI data as mandated under the SRPC Protection Protocol, 2023.
- The importance of timely and accurate submission of PPI was emphasised, as the indices provide valuable information on the performance and effectiveness of protection systems, including the nature and cause of tripping, relay operation, fault clearance and successful/unsuccessful operation of protection schemes. Regular analysis of PPI helps in identifying recurring protection deficiencies, mal-operations, delayed fault clearance and coordination issues, enabling timely corrective action.
- It was further highlighted that, with increasing RE penetration and the growing importance of RE evacuation corridors, reliable protection performance is essential for minimising the impact of transmission faults, avoiding unnecessary outages and maintaining system stability and availability of critical evacuation corridors.
- The Forum noted that some RE users had not furnished the required PPI for the period January 2026 to March 2026. The concerned entities were advised to ensure timely submission of PPI and avoid recurrence of such non-compliance.
- SRLDC presented the status of Post-Protection Incident (PPI) submissions for the period from January 2026 to March 2026 and highlighted instances of non-submission by certain RE entities.
- GRT informed that the pending PPI data has now been submitted. KSPDCL also confirmed that the required PPI submissions have been completed. Serentica informed that the pending PPI data was submitted during the previous week.
- SRLDC reiterated that PPI verification is mandatory every month, irrespective of whether any protection tripping incidents have occurred during the period.

Conclusion/Actionable Points:

All RE users/entities were requested to submit complete and accurate monthly PPI for 220 kV and above lines through the SPHOORTI portal by the 15th of the subsequent month, as prescribed.

The pending PPI for January–March 2026 shall be furnished immediately, and the entities shall ensure timely compliance in future.

11.3 Status of Implementation of Pending Recommendations of PCSC:

All RE users shall update the status of implementation of PCSC recommendations (up to 138th PCSC meeting of SRPC) in P-REC Module of PMS suite available at

https://sr-pms.in/mipaction_login_submit.suite

Conclusion/Action Points

All RE entities are requested to update the status of the recommendations in SR-PMS portal.

11.4 Protection Audit

11.4.1 Furnishing of Internal Protection Audit Plan:

The Clause (5) of Regulation 15 of IEGC Regulations, 2023 envisages as below:

(1) All users shall conduct internal audit of their protection systems annually, and any shortcomings identified shall be rectified and informed to their respective RPC. The audit report along with action plan for rectification of deficiencies detected, if any, shall be shared with respective RPC for users connected at 220 kV and above (132 kV and above in NER).

(2) All users shall also conduct third party protection audit of each substation at 220 kV and above (132 kV and above in NER) once in five years or earlier as advised by the respective RPC

.....

(5) Annual audit plan for the next financial year shall be submitted by the users to their respective RPC by 31st October. The users shall adhere to the annual audit plan and report compliance of the same to their respective RPC."

All RE entities are requested to upload their Audit plans without fail in compliance with IEGC using the forms shared by Protection Sub-Committee (PCSC) for Internal Audit and Third Party Audit.

11.5 Submission of Static IPv4 Addresses for Whitelisting – Access to SRLDC Web Applications:

All users/entities are requested to furnish their Static IPv4 address details at the earliest by submitting the information through the prescribed Google Form shared by SRLDC

While submitting the details, a **letter of authorization for the IP addresses** may also be uploaded (file upload facility is available in the form). Users who have already submitted the required details need not submit them again; however, in case of any modification, the updated details may be submitted afresh. **Early submission** of the above details is requested to facilitate further necessary action related to **access control and cybersecurity compliance**.

In case of any difficulty in the whitelisting process or for any clarification, the matter may be taken up with **SRLDC** through email/official correspondence, or the undersigned may be contacted.

User	Whitelisted IP status
AMGEPL	Not Provided
APSPCL	Not Provided
Ayana Renewable Power Six Pvt Ltd	Not Provided
BETAMWIND	Provided
GREENINFRA	Not Provided
GREENKO	Provided
GRT	Not Provided
HIRIYUR_ZREPL	Not Provided
JSW_RE	Provided
KLEIO_SOLAR	Not Provided
KSPDCL	Provided

User	Whitelisted IP status
MYTRAH	Provided
NTPC	Provided
ORANGE	Not Provided
OSTRO_KANNADA	Not Provided
PVG_IRCON_S	Not Provided
RENEW POWER PVT LTD	Not Provided
SAEL	Not Provided
SERENTICA_RI1PL	Not Provided
Spring_Pugalur	Not Provided
TATA	Provided
Vena_GadagPS	Not Provided

Deliberations:

- SRLDC informed that the IP whitelisting process for access to the SPHOORTI Protection Portal has already been circulated and requested all concerned entities to furnish the required IP address details at the earliest.
- The Forum was apprised of the requirement for submission of Static IPv4 addresses for whitelisting to enable authorised access to SRLDC web applications. It was highlighted that IP whitelisting provides an additional layer of access control by ensuring that SRLDC applications are accessible only from identified and authorised network addresses, thereby reducing the possibility of unauthorised access and strengthening cybersecurity.
- The importance of providing accurate and valid Static IPv4 addresses was emphasised, particularly for users requiring regular access to SRLDC applications. It was also clarified that any subsequent change in the authorised IP address should be promptly communicated and the updated details submitted for whitelisting to avoid disruption in access.
- The Forum was apprised of the current status of IP details furnished by the RE entities, wherein several entities are yet to submit their Static IPv4 addresses and the corresponding authorisation details. The concerned entities were advised to complete the submission at the earliest so that the whitelisting process can be completed without affecting access to essential SRLDC applications.
- It was further emphasised that IP whitelisting is an important cybersecurity control and should be treated as part of the overall secure access management framework, particularly considering the increasing dependence on web-based applications for grid operation, data exchange and regulatory/compliance activities.
- The entities yet to furnish the required IP details include AMGEPL, APSPCL, Ayana Renewable Power Six Pvt. Ltd., Green Infra, GRT, Hiriya ZREPL, Kleio Solar, Orange, Ostro Kannada, PVG IRCON, Renew Power Pvt. Ltd., SAEL, Serentica RI1PL, Spring Pugalur, and Veena Gadag PS.
- RENEW informed that the IP address already provided for the Forecasting Portal may be considered for the Protection Portal as well. SRLDC clarified that the IP address(es) of the system(s) from which the SPHOORTI Protection Portal is accessed for uploading Disturbance Recorder (DR) and Event Log (EL) files, along with the corresponding IP address(es) of the concerned personnel authorized to access the portal, shall be furnished for whitelisting and the same may be furnished.

Actionable Points:

- All RE users/entities who have not yet furnished their Static IPv4 addresses were requested to submit the details, along with the required authorisation, at the earliest for

whitelisting. AMGEPL, APSPCL, Ayana Renewable Power Six Pvt. Ltd., Green Infra, GRT, Hiriya ZREPL, Kleio Solar, Orange, Ostro Kannada, PVG IRCON, Renew Power Pvt. Ltd., SAEL, Serentica RIPL, Spring Pugalur, and Veena Gadag PS to furnish the IP address details required for whitelisting of the SPOORTI Protection Portal at the earliest.

- Entities that have already submitted the details shall ensure that any subsequent change in the authorised IP address is promptly intimated to SRLDC and updated for continued secure access.

12. Compliance of CEA Standards (SRLDC Agenda item)

12.1 Non-compliance to various CEA (Technical Standards for Connectivity to the Grid) Regulation.

As per the above regulations the RE generators have to ensure power quality (harmonic content, DC injection, flicker), reactive capability (0.95lag to 0.95lead at the POI), frequency response & operational capability within specified frequency / voltage band, voltage Ride through capabilities (LVRT & HVRT), ramping capability & active power control set point etc. SRLDC has taken up with RE Park Developers, SPD & WPD's connected at Pavagada, N.P Kunta, Pugalur, Hiriya, Tuticorin pooling station (TTGS) through familiarization meeting on the details of the CEA Working Group report held on 27.09.2022 and a follow-up meeting on 06.01.2023 w.r.t implementation. SRLDC vide letters dated 08.03.2023, 14.03.2023, 29.04.2024 and 10.05.2024 had reiterated the importance and urgency of compliance with CEA standards & its Clarification. KSPDCL conducted review meeting with the SPDs of Pavagada regarding the status of models submission and reactive power compensation studies on 07.05.2024. SRLDC has conducted follow up meeting held with APSPCL and SPD's of N.P.Kunta on 26-06-2024. Special meeting with all the RE developers was conducted on 25.07.2024 by SRPC/SRLDC. Same was also discussed in the 1st, 2nd, 3rd and 4th RE Subcommittee meetings held on 06.11.2024, 27.03.2025, 13.10.2025 and 24.02.2026.

The latest update of the compliance status is attached at **Annexure-2**.

The mail regarding conduct of annual harmonic measurements for FY 2025–26 was circulated to all developers on 27th June 2025. The requirement was also reiterated to all developers during the 3rd & 4th RE Sub-Committee Meeting. Accordingly, all developers are requested to submit the harmonic measurement test reports at the earliest.

Few plants have submitted Harmonics measurements for FY 2025-26. In respect of the plants where harmonic violations have been observed, including violations reported in previous years, the concerned developers are requested to submit a detailed and time bound action plan for mitigation of the same.

Further, for FY 2026–27, harmonic measurements shall be conducted by all developers within the stipulated timelines. It is also suggested that all wind plant developers complete the harmonic measurements and any other pending tests, such as reactive power capability tests or rated power demonstration tests, during the period from June to October 2026.

Deliberations:

SRLDC presented issues of non-compliance with various CEA technical standards for connectivity regulations. The presentation highlighted the following key points:

- i. Power quality measurements, including harmonic content, DC injection, and flicker, must be conducted annually.
- ii. Developers need to ensure dynamic compensation to meet the requirement of maintaining a power factor between 0.95 lag and 0.95 lead at the Point of Interconnection (POI).
- iii. Compliance with Voltage Ride Through capabilities (LVRT & HVRT) is required.

- iv. Frequency response must align with standards, and operational capability within specified frequency and voltage bands is necessary.
- v. Ramping capability must meet the standards, including the ability to respond to active power control set-points.

The SRLDC highlighted that these aspects have been taken up with RE Park Developers, SPDs, and WPDs connected at Pavagada, N.P. Kunta, Pugalur, Hiriyur, and Tuticorin Pooling Station (TTGS) through familiarization meetings based on the CEA Working Group Report discussed on 27.09.2022, and a follow-up meeting held on 06.01.2023 regarding its implementation.

It was further informed that SRLDC, vide letters dated 08.03.2023, 14.03.2023, 29.04.2024, and 10.05.2024, had reiterated the importance and urgency of compliance with the CEA standards and related clarifications. In this regard, KSPDCL conducted a review meeting with SPDs of Pavagada on 07.05.2024 to discuss the status of model submissions and reactive power compensation studies. Similarly, SRLDC conducted a follow-up meeting with APSPCL and SPDs of N.P. Kunta on 26.06.2024.

A special meeting with all RE developers was subsequently held on 25.07.2024 by SRPC/SRLDC, and the matter was also deliberated in the 1st, 2nd, 3rd and 4th RE Sub-Committee meetings held on 06.11.2024, 27.03.2025, 13.10.2025 and 24.02.2026.

RE plants Connected to Pavagada Solar Pooling Station

SRLDC informed that the plant-level steady-state models have been submitted, the reactive power compensation details are under review, and the dynamic models are yet to be submitted. Harmonic violations were also observed in the reports submitted for FY 2024–25. Further, in the reports submitted for FY 2025–26, harmonic violations were observed in Bays 201, 202, 204, 206, and 208.

The SRLDC further emphasized that, as per the Working Group Report 2022, plants connected prior to the WG-2022 report are also required to comply with the CEA Technical Standards, including submission of models in PSS/E and PSCAD, and installation of the Power Plant Controller (PPC). In case of non-compliance, a maximum period of one year may be granted for taking the necessary corrective measures and installation of additional equipment, as required, to make the plant compliant.

The KSPDCL representative mentioned that the Developers are stating that the dynamic models are not available. SRLDC informed that, in case of non-availability of the models, the Developers may approach CEA for appropriate guidance. Otherwise, non-submission of the models shall be treated as non-compliance with the CEA guidelines.

Regarding the harmonic violations, the KSPDCL representative informed that the developers would be instructed to carry out feeder-level harmonic measurements for the bays where harmonic violations have been observed.

RE Plants Connected at Tuticorin Pooling Station

1. Orange Sironj Wind Power Private Limited

- a. The SRLDC representative informed that M/s. Orange Sironj has not submitted the dynamic model and 60MVar SVG is yet to be commissioned.
- b. In response to SRLDC's query regarding the commissioning of the 60 MVar SVG, the developer stated that the Purchase Order (PO) is yet to be placed and that the status will be shared by the end of the week.
- c. With regard to the dynamic models, the Developer informed that OEM support has been sought for the preparation of the plant's dynamic models. However, the OEM has conveyed that the

PSS®E and PSCAD models are not available. In response SRLDC mentioned that in case of non-availability of model may approach for further guidance.

- d. Regarding the shifting of the PPC, the developer mentioned that the status will be shared by the end of the week.
- e. Regarding the harmonic measurements for FY 2025–26, the developer informed that the measurements have been carried out and that the report will be shared.

2. Mytrah Energy (India) Private Limited

- a. SRLDC representative mentioned that, as per the initial assessment submitted by the developer, 73 MVAR of reactive power compensation is required. Regarding the submission of dynamic models, M/s. Mytrah Energy Pvt. Ltd. had approached CEA due to the non-availability of PSS®E and PSCAD models, and CEA subsequently granted an exemption through the Minutes of Meeting (MoM) dated 15.06.2026. The SRLDC representative further enquired about the status of the harmonic measurements for FY 2025–26 and the installation of the SVG.
- b. In response, the Developer informed that the harmonic measurements have been conducted and that the report will be shared. The developer further stated that the SVG will be installed by the end of July 2026.

3. Green Infra Renewable Energy Limited (GIREL)

- a. With regard to reactive power compensation, the developer informed that SVG installation works are in progress, cable termination works are pending and initially planned to completed by November 2025 due to rains and could not be completed. Expected to commission by November 2026 and in parallel PPC shifting to PoI also will be carried out at the same time. The SRLDC representative emphasized that the SVG needs to be integrated into the dynamic model, and the updated dynamic model of the plant should be resubmitted thereafter.
- b. In the previous meeting SRLDC stated that the SVG would be permitted for charging only after verification of the models. The developer agreed to this requirement. Further, SRLDC added that the SVG must also be integrated with the PPC system.
- c. SRLDC representative requested the status of dynamic model submission. The developer informed that the report works are given to GE and PSCAD model is yet to receive from Suzlon and expected model submission by Sep'26.
- d. SRLDC mentioned that Harmonic measurements submitted for FY 2025-26, in the submitted report R & Y phases violations were observed. In response Developer mentioned that measurements will be carried out in July'26 and action will be taken accordingly.

4. BETAM WIND ENERGY PVT LTD

- a. In the previous meeting the following points were noted:
 - i. SRLDC requested M/s. BETAM to update the status of model submission. BETAM informed that the total project capacity is 250 MW, out of which 220 MW is already commissioned, and the remaining 30 MW is under the process of commissioning. It was stated that the final models would be submitted upon commissioning of the full capacity. The developer further informed that the reactive power assessment would also be carried out along with the final study.
 - ii. The SRLDC representative informed that the connectivity for the uncommissioned 30 MW had been revoked by CTUIL, and enquired whether any further communication had been received from CTUIL. In response, the developer stated that an update would be provided. SRLDC further mentioned that, in view of the uncertainty regarding the 30 MW connectivity

and commissioning, the models for the commissioned capacity of 220 MW may be submitted by December 2025.

- iii. Member Secretary, SRPC, mentioned that the 220 MW capacity has been in operation for about four years, and since there is no approval or connectivity for the remaining 30 MW capacity from CTUIL, the Developer was advised to work out the reactive power compensation for either 220 MW or 250 MW, as applicable, and to submit the dynamic models before the next meeting. The Developer agreed to the same.
- b. Regarding to dynamic models developer mentioned that development is in progress and harmonics measurements for FY 2025-26 was conducted and report will be shared.

5. GRT Jewellers (India) Private Limited-

- a. In the previous meeting the following points were noted:
 - i. Developer informed that SVG installation is kick started and order would be released soon and it would be installed in 3-4 months.
 - ii. SRLDC informed that as per the harmonic measurement reports for 2023-24 and 2024-25, violations are observed in the 2nd, 4th, and 5th harmonics, as well as TDD. SRLDC emphasized the concern regarding violations in lower-order harmonics and requested immediate corrective actions from the developer. Developer stated that they are discussing with Inverter OEM team to verify the harmonics installation and will update the status at the earliest.
 - iii. Considering the lower order harmonics, SRLDC told that there is no action from Developer side till now, which is not acceptable. Developer informed that they are taking the issue seriously with OEMs and the same would be addressed at the earliest.
- b. Regarding to dynamic models' developer mentioned that status will be shared subsequently and harmonics measurements for FY 2025-26 was conducted and report will be shared. Developer mentioned that SVG (43MVar) will be installed within 2-3 months.

6. NTPC Ettayapuram

- a. In the previous meeting, the NTPC representative had informed that the final plant models would be submitted by the end of April 2025. SRLDC enquired about the current status of the model submission, to which NTPC responded that the work order for model development has been placed and the models will be submitted by the end of April 2026.
- b. Regarding the harmonic measurements for FY 2025–26, NTPC informed that the measurements have been conducted and that the report will be shared within a week. NTPC further stated that the dynamic models will be submitted by the end of July 2026.

7. JSW RENEW TWO Private limited(300MW) & JSW RENEW Private limited (540MW):

- a. SRLDC informed that the final validated models are required to be submitted for both plants. In the previous meeting, the developer had informed that the final models would be submitted by the end of April 2025, and that the Purchase Order (PO) for the final validated model had already been issued to M/s. ARMAX. SRLDC enquired about the current status, to which the developer responded that they would inform the project team regarding the same. SRLDC further emphasized the importance of timely submission of the final validated models, which are required to be submitted within three months of plant commissioning.
- b. JSW mentioned that final validated models will be submitted for 300 MW & 540 MW plants by Aug'26. SRLDC mentioned that in the submitted Harmonic measurement for 2025-26, in 210MW plant DC injection violations are observed in R&Y phases. JSW mentioned that will revert back with suitable action plan.

SRLDC requested developers to provide updates since last meeting:

1. NTPC Ananthpuram

- a. SRLDC informed that steady-state models, dynamic models, and PPC commissioning details from NTPC Anantapuram are still pending, and requested the current status. In the previous meeting, NTPC had informed that the plant models were under development by M/s. IPR Technologies.
- b. SRLDC again enquired about the status of model submission, to which NTPC informed that the steady-state models have been prepared and are currently under review by the engineering team, and mentioned that the dynamic models are not available and initiated for exemption from CEA.
- c. In response to SRLDC's query regarding reactive power compensation identification, NTPC stated that the engineering team is working on it along with the vendor. SRLDC emphasized that reactive power compensation needs to be identified for the full generation capacity. NTPC mentioned that the steady-state models would be submitted.
- d. Regarding PPC status, NTPC informed that the PPC partly commissioned. Two make of inverters are there Hitachi and ABB. Hitachi inverters are not multi master compliant and mentioned that they upgrading the inverters within 2 months. Further, mentioned that ABB inverters are integrated and operated through the PPC, measurements are being taken from the Point of Interconnection (PoI) and the system is in service. PPC will be fully commissioned with in 1month.
- e. On enquiry, it was understood that NTPC has not conducted harmonic measurements for FY 2025–26. As per the harmonic measurement report submitted for FY 2024–25, the long-term flicker and individual current harmonics of the 5th, 11th, 15th, 17th, 19th, 23rd, 25th, and 29th orders were found to be exceeding the prescribed limits.
- f. SRLDC enquired about the action plan proposed by NTPC to mitigate the harmonic issues and expressed concern over the continued injection of low-order harmonics into the grid. SRLDC also stated that non-conducting of harmonic measurements in accordance with the CEA Technical Standards for Connectivity to the Grid constitutes a violation of the applicable regulations.
- g. MS, SRPC mentioned that in cases where violations are observed in harmonic measurement reports for two consecutive years and no satisfactory action plan is received from the Developer, such cases will be referred to CEA for further guidance and necessary action.

2. Adani AP Seven Pvt Limited

- a. In the previous meeting, the Adani representative had informed that discussions were initiated with their engineering team for SVG installation and that they were in consultation with various OEMs capable of meeting the technical requirements. It was stated that the work was under progress and would be completed at the earliest. SRLDC enquired about the current status of SVG installation, to which the developer informed that the works are planned to commence from December 2025 and are expected to be completed by February/March 2026.
- b. There was no representation from **Adani AP Seven Pvt Limited** in the meeting.

3. Ayana Renewable Power Private Limited

- a. The SRLDC representative informed that, as per the steady-state report submitted by M/s. Ayana, a reactive power shortfall of 25 MVar has been observed at the Point of Interconnection (PoI), and dynamic compensation needs to be installed to address the shortfall.

Regarding the dynamic models developer mentioned that models will be submitted by end of July'26.

- b. SRLDC enquired about the current status of SVG installation, to which the Developer responded that erection is in progress. The installation is expected to be completed by July 2026.
- c. PPC shifting to POI reference, Developer mentioned that panel is already placed at POWERGRID, waiting for approval and will be commissioned at the earliest.
- d. Developers mentioned that Harmonics report submitted for FY 2025-26. In response SRLDC mentioned that R-phase flicker was observed out of phase limits and enquired about the action plan. In response Developer mentioned that test are planned to conduct in the month Sep'26 and action plan will be shared subsequently.

4. Sprng Agnitra Pvt Limited

- a. In the previous meeting the following points were noted:
 - i. SRLDC requested update on the installation of 77 MVAR SVG. Sprng informed that the installation is completed, the commissioning would be completed by October'25 month end and FTC application is yet to be submitted. SRLDC representative informed that first time charging approval needs to be taken from SRLDC and the SVG needs to be integrated in the dynamic model and models needs to be submitted by developer
 - ii. Regarding the harmonic measurement report, the developer informed that B-Ph DC current injection is just 0.002 more than the limit of 0.500 and actions would be taken if it crosses the limit in the next Annual harmonic measurement which is planned after SVG commissioning and expected to complete the test by December'25.
- b. SRLDC enquired about the status of dynamic model submission, SVG installation, and harmonic measurements for FY 2025–26. In response, the Developer informed that the harmonic measurements for FY 2025–26 have not been conducted and that the status of the dynamic model submission will be updated. The developer also stated that the status of the SVG installation is in progress.
- c. SRLDC also stated that non-conducting of harmonic measurements in accordance with the CEA Technical Standards for Connectivity to the Grid constitutes a violation of the applicable regulations.

5. Tata Power Renewable Energy Limited

- a. In the previous meeting the following points were noted:
 - i. TATA Power has submitted models up to 33kV, provided reactive power compensation details up to 33kV, and commissioned the PPC.
 - ii. TATA had completed their plant's modelling, combined modelling up to the POI was pending as they are sharing the substation with ATHENA & IndiGrid. They are having series of discussions with consultant as well as ATHENA, IndiGrid and APSPCL. After receiving the data from ATHENA, the final study would be completed within 8 weeks. Data from ATHENA is expected within 15 days and study is expected to be completed by end of May 2025. SRLDC requested ATHENA to submit the modelling data to TATA.
 - iii. Regarding DC harmonics observed in FY-2024-25, TATA informed that their engineering team suggested that harmonics are observed in 2 phases. Hence, installation of filters may not be required as the measured limit is 1.2 against permissible limit of 1.0. The engineering team suggested to go for harmonics measurement again. Accordingly, harmonics measurement tests are planned in April 2025 and based on the results, harmonic filters would be installed, if required.

- d. In response to the query from SRLDC regarding the status of model data submission, TATA Power informed that their models were submitted. As discussed, all the developers together need to submit the models at POI, they are in process of it, individual plant models from Athena are pending, then model development at POI will be taken up by APSPCL.
- e. MS, SRPC suggested to APSPCL to coordinate and submit the models at POI. APSPCL was not present in the meeting. SRPC mentioned that the matter will be taken up with APSPCL.
- f. In response to the query on shifting the PPC reference to the PoI, TATA Power mentioned that drawings are submitted to PGCIL, after approval from PGCIL PPC will be shifted. On query from SRLDC, the Developers confirmed that PPCs are installed at the 33 kV level of M/s. IndiGrid, and M/s. TATA Power plants. The Master PPC is yet to be installed, and APSPCL need to provide an update on the same.
- g. Regarding harmonic measurements for FY 2025-26, IndiGrid informed that no harmonic distortions were observed during combined measurements at PoI.

6. ATHENA BHIWADI, ATHENA HISAR & ATHEAN KARNAL SOLAR POWER Pvt. Ltd.

- a. In the previous meeting the following points were noted:
 - i. SRLDC representative informed that the submission of complete plant models for the 250 MW block was pending due to delays from ATHENA. An update on the status of model submission was requested. ATHENA informed that model for two projects (ATHENA HISAR & ATHENA KARNAL) submitted and one project (ATHENA BHIWADI) is would be submitted soon.
 - ii. Regarding shifting of PPC to POI, ATHENA informed that PPC reference would be shifted to POI after the joint study.
 - iii. Regarding harmonic violations, ATHENA stated that their internal engineering team was addressing the harmonic violations and would provide an update on corrective actions soon.
- b. Last year harmonic measurements were submitted by IndiGrid.

7. Azure Power thirty-six private limited

- a. In the previous meeting the following points were noted:
 - i. PPC Installation: Developer informed that PPC installation and testing have been completed at site level. In response to SRLDC's query, the developer mentioned that the PPC test report will be submitted after completion of PQ meter testing at site level.
 - ii. PQ Metering: Developer informed that PQ meter installation at 220 kV level has been completed, and testing is yet to be carried out.
 - iii. Model Studies: Developer informed that steady state and dynamic models will be submitted after commissioning of PPC. SRLDC clarified that PPC commissioning and model submission can be done in parallel as both activities are not interlinked. In response, the developer mentioned that the same vendor is executing the PPC installation as well as the preparation of steady state and dynamic models, which has resulted in dependency. On further enquiry regarding delay in model submission, the developer stated that the delay was due to late finalization of the vendor.
 - iv. Harmonics: Developer informed that no harmonic violations were observed in the PoI measurements, and the measurement report was already shared on 5th May 2025.
- b. Developer mentioned that steady state and dynamic model will be submitted by end of July'26. Informed that PPC shifting was done on Sep'25 and power quality measurement was carried out for FY 2025-26 and report will be shared.

8. IndiGrid Solar-1 (AP) & IndiGrid Solar-2 (AP) Private Limited

- a. In the previous meeting the following points were noted:
 - i. Harmonics: Developer informed that no harmonic violations were observed at the Point of Interconnection (PoI). The measurement reports for both 33 kV and 220 kV levels have been shared with SRLDC. Report submitted by developer on 5th May 2025 & 30th Oct 2025
 - ii. Reactive Power Compensation: Developer informed that the reactive power compensation study for the TATA Power-connected block is currently in progress in coordination with TATA Power. It was further informed that the study for the remaining block will be taken up after finalization of the TATA Power-connected block.
 - iii. Regarding model submission, IndiGrid informed that they are sharing one project with TATA/ATHENA and another project with AZURE. After the submission of data by ATHENA, TATA would be coordinating with consultant for submission 250MW block model.
7. There was no representation from Indigrid in the meeting.

RE plants Connected at Hiriyur Pooling Station

1. Ostro Kannada Power Pvt Ltd

- a. In response to SRLDC's query about harmonics measurements for 2024-25 in the submitted report the following are observations
 - i. Flicker: Long term flicker 99th percentile-Y phase
 - ii. Individual Current Harmonic distortion: Except 13th harmonic
 - iii. DC Current Injection Percentage of Full Load rated current at POI: Except Y Phase
- b. Regarding harmonic measurements for 2025-26, report was submitted and no violations were observed. Final models of the plant are yet to be submitted.

RE plants Connected at Pugalur Pooling Station

1. SPRNG RENEWABLE ENERGY PRIVATE LIMITED

- a. Regarding harmonic violations, developer informed that harmonic filters were installed in the month of Jan 2026.
- b. For FY 2025-26 due to commissioning of the filters test could not be conducted due to less wind present to conduct the test. In the month of June 2026 the test will be conducted. Final models of the plant are yet to be submitted.

RE plants Connected at Karur Pooling Station

1. JSW Neo (150MW)

- a. SRLDC enquired about the status of Final model submission and Harmonic measurements for the FY 2025-26.
- b. In response developer mentioned that the plant commissioning is going on and harmonic measurement for FY 2025-26 was not carried out due to plant commissioning is progress and for FY 2026-27 will be carried out in the month of June'26.

2. TP vadrddhaman

- a. SRLDC enquired about the status of Final model submission and Harmonic measurements for the FY 2025-26.
- b. In response developer mentioned that final models will be submitted by Aug'26. FY 2025-26 was not carried out due to plant commissioning is progress and for FY 2026-27 will be carried out.

RE plants Connected at Koppal Pooling Station

1. Ayana Renewable Energy Pvt Ltd

- a. In the previous meeting the following were noted:
 7. Ayana had informed that harmonic measurements would be carried out after the SVG installation, and appropriate actions would be taken based on the measurement results.
 8. Developer informed that filters have been installed, however, the FTC is pending, and commissioning is expected to be completed within a week.
- b. Harmonic test reports for FY 2025-26 need to be shared. 46th & 48th harmonic filters are yet to be charged.

2. Renew Surya Ojas Pvt Ltd

- c. SRLDC enquired about the status of Final model submission and Harmonic measurements for the FY 2025-26.
- d. In response representative of Renew shared the status, final models will be submitted by Sep'26, Harmonic measurements for FY 2025-26 were conducted and reports will be shared.

3. Renew Surya Roshini Pvt Ltd

- a. SRLDC enquired about the status of Final model submission and Harmonic measurements for the FY 2025-26.
- b. In response representative of Renew shared the status, final models will be submitted by Sep'26, Harmonic measurements for FY 2025-26 were conducted and reports will be shared.

4. Kleio Solar Power Pvt Ltd

- a. SRLDC enquired about the status of Final model submission and Harmonic measurements for the FY 2025-26.
- b. In response representative of Kleio shared the status, final models will be submitted at the earliest, Harmonic measurements for FY 2025-26 were conducted and reports will be shared.

RE plants Connected at Gadag Pooling Station

1. Vena Energy Vidyuth Private Ltd

- a. SRLDC representative requested Vena to update about the status of final model submission. SRLDC informed that as the model was commissioned in 31st Oct'24, the final model needs to be submitted within 3 months. Regarding model submission, the developer informed that they would revert with an update.
- b. Regarding Annual harmonic measurements carried out for the year FY 2025-26 harmonics violations are observed. SRLDC enquired about the current status of it, in response Vena representative mentioned that filter installation is going on and expected within 2months.

2. RSPPL

- a. SRLDC representative requested Renew to update about the status of final model submission and harmonic measurements for FY 2025-26.
- b. In response developer mentioned that the plant commissioning is going on and harmonic measurement for FY 2025-26 was not carried out due to plant commissioning is progress and for FY 2026-27 will be carried out in the month of July'26.
- c. SRLDC mentioned and requested that on-going commissioning plants also need to conduct the harmonic measurements.

RE plants Connected at 765/400kV Kurnool-3 Pooling Station

1. SAEL Solar MHP1&2 Pvt Ltd

- a. SRLDC representative requested SAEL to update about the status of final model submission and harmonic measurements for FY 2025-26.

- b. In response developer mentioned that the plant commissioning is going on and harmonic measurement for FY 2025-26 was not carried out due to plant commissioning is progress and for FY 2026-27 will be carried out. Final models for both the plants will be shared by July'26

RE plants Connected at 765/400kV Kurnool Pooling Station

1. AMGEPL

- a. SRLDC representative requested AMGEPL to update about the status of final model submission and harmonic measurements conducted for FY 2025-26 harmonic violations are observed at Solar & Wind.
- b. In response developer mentioned that final models will be submitted at the earliest and again harmonic measurements will be conducted to check the violations.

Floating Solar power plants

1. Ramagundam FSP & Simhadri FSP

- a. SRLDC informed that the final validated models are yet to be submitted by NTPC Ramagundam and NTPC Simhadri. NTPC mentioned that the models are currently under development by Harmonic Automation for NTPC Ramagundam. It was further informed that the reactive power compensation identification is also part of the report and will be shared along with the model submission. NTPC Simhadri FSP & Ramagundam models will be submitted by July 2026.
- b. SRLDC mentioned that NTPC Ramagundam harmonic measurement reports are received, no violations are observed and enquired about the status of Simhadri FSPs harmonic measurements. In response, NTPC informed that the measurements at NTPC Simhadri FSPs were not conducted and will be conducted for FY 2026-27.

Status of Harmonic filter bank installation:

Sl No.	RE Plant Name	Pooling Station	Connectivity approved quantum (MW)	Present I/C (MW)	Present Status	Date of charging of Filter Bank	Remarks
1	Veena Energy Vidyuth Private Limited	400/220KV Gadag PS	160	160	Pending		Developer told filter will be installed after yearly harmonic measurement which will be conducted in current peak wind season FY 2025-26. Test conducted between the period from 01.08.2025 to 08.08.2025 and submitted through mail on

Sl No.	RE Plant Name	Pooling Station	Connectivity approved quantum (MW)	Present I/C (MW)	Present Status	Date of charging of Filter Bank	Remarks
							16.09.2025. Voltage- 5th Harmonic and Current- 48th and 50th Harmonics are observed..

Vena Energy Vidyuth Pvt Ltd stated that installation is in progress.

Conclusion/Action Points

- RE developers to ensure compliance to CEA (Technical Standards for Connectivity to the Grid) Regulations

12.2 Enabling Fast Frequency Response (FFR) flag for RE Plants to operate during high frequency operation

Mail sent all RE developers to enable FFR on 27.06.2025 and reminder mail on 14.10.2025.

As per clause B2 (4)(ii) in CEA Technical Standards for Connectivity to the Grid (Amendment) Regulations 2019, "*The generating stations with installed capacity of more than 10 MW connected at voltage level of 33 kV and above: Provided that for frequency deviations in excess of 0.3Hz, the generating Station shall have the facility to provide an immediate (within 1 second) real power primary frequency response of at least 10% of the maximum Alternating Current active power capacity*".

In line with the above regulations, all the renewable energy generating stations are required to provide frequency response by enabling the frequency control flags in their respective Power Plant Controllers, in strict compliance with the Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019.

Status of FFR enable details are yet to receive and same needs to be shared by RE developers.

In continuation to the mails circulated on 28th Nov'25, 18th Dec'25, 26th Dec'25, 2nd Feb'26, 4th Mar'26, 1st Apr'26 and 3rd May'26 regarding events wherein system frequency exceeded 50.3 Hz, all RE developers were requested to enable FFR and verify compliance with the applicable provisions of CEA Technical Standards for Connectivity and subsequent amendments thereof.

Further, the Fast Frequency Response (FFR) behaviour of RE plants and the responses up to February 2026 were deliberated in detail during the 4th RE Sub-Committee Meeting. The analysed responses and observed performance were presented before the forum for necessary improvement measures and compliance verification.

Deliberations

SRPC stated that, in view of the high-frequency conditions observed in the grid, it is important for RE generating stations to ensure that the Fast Frequency Response (FFR) functionality is enabled and available for operation during frequency deviations beyond the prescribed limits.

It was highlighted that, with increasing penetration of inverter-based RE generation, the collective response of RE plants during high-frequency conditions can have a significant impact on system frequency. Properly configured FFR enables RE plants to rapidly modulate active power output in response to frequency deviations, thereby supporting frequency control and reducing the magnitude and duration of frequency excursions.

The Forum was reminded that the applicable CEA Technical Standards require generating stations above 10 MW connected at 33 kV and above to have the facility to provide the prescribed immediate primary frequency response within one second for frequency deviations exceeding 0.3 Hz. RE developers were therefore advised to ensure that the required frequency control/FFR flags are enabled in the Power Plant Controller (PPC) and that the configured response is in accordance with the applicable requirements.

SRLDC clarified that if the system frequency reaches 50.3 Hz, the generating plant shall provide FFR response of at least 10% of the maximum Alternating Current active power capacity. If the frequency further increases above 50.3 Hz, the plant shall provide PFR response as per droop characteristics, and the recommended droop setting is 4%.

It was further highlighted that FFR response is presently not being provided by many developers, and the details are attached as Annexure-3.

During the meeting the following plants mentioned that FFR is enabled: Avvada Solarise (Pavagada), Orange sironj wind power (TTGS), Green infra(TTGS), Sprng Renewable Energy (Pugalur) enabled on 23.05.2026, AMGEPL and Vena Energy (Gadag)

Further, SRPC stated that all the developers to share the FFR status to SRLDC at the earliest and issue non-compliance messages to the developers if the same persist the matter will be taken up with CERC through petition.

Conclusion/Action Points

- All RE developers shall ensure enabling and availability of FFR/frequency control functionality in their PPCs in compliance with the applicable CEA Technical Standards.
- RE developers shall furnish the status of FFR enablement and relevant configuration details to SRPC/SRLDC at the earliest.
- The actual FFR response during high-frequency events shall be periodically monitored and verified, and deficiencies, if any, shall be rectified in coordination with the OEM.
- RE developers shall ensure that the FFR functionality remains continuously available and operational, subject to the applicable grid operating requirements.

12.3 Frequency Response & Reactive Power testing:

As per IEGC 24(6)(c) *“The following tests shall be performed at the point of interconnection:*

- (i) *Frequency response of machines as per the CEA Technical Standards for Connectivity.*
- (ii) *Reactive power capability as per OEM rating at the available irradiance or the wind energy, as the case may be.*

Provided that the generating company may submit offline simulation studies for the specified tests, in case testing is not feasible before COD, subject to the condition that tests shall be performed within a period of one year from the date of achieving COD.”

Due to the non-availability of RE generation and various reasons prior to COD, the developers listed in Annexure-3 had not carried out the above tests and had mentioned that the same would be conducted within one year of COD, in line with the above regulatory provisions.

However, the said tests are yet to be carried out by the RE developers listed in Annexure-3. Accordingly, the concerned developers are requested to conduct the above tests and submit the test reports at the earliest.

Deliberations

The Forum was apprised of the requirement under Regulation 24(6)(c) of the IEGC, 2023 for conducting frequency response and reactive power capability tests at the point of interconnection. It was highlighted that these tests are important for verifying the actual performance of the generating station against the specified grid requirements and for establishing the capability of RE plants to support the grid during frequency and voltage variations.

It was observed that the stipulated period has elapsed in respect of certain generating stations and the required frequency response and reactive power capability tests are still pending. The importance of completing these tests at the point of interconnection was emphasised, particularly considering the increasing penetration of inverter-based RE generation and the need to verify their actual frequency and reactive power response under grid conditions.

The concerned RE developers were therefore advised to complete the pending tests at the earliest under suitable generation and operating conditions and furnish the detailed test reports to SRPC/SRLDC for verification and record.

The updates given by the developer are as follows:

- JSW mentioned that tests for TTGS, Dharapuram plants tests will be conducted in the month of June 2026.
- Renew mentioned that all the plants in SR, the tests will be conducted in the month of June or July 2026 during high wind season.
- Spring Akshaya Urja Pvt Ltd mentioned that full plant for 352.8MW will be performed.
- Ayana, Vena, AMGEPL, Kleio developers were requested to conduct at the earliest.

13. Metering Accounting & Settlement (SRLDC Agenda Items)

13.1 Outstanding dues of M/s ATHENA as on 27.05.2026:

- a. M/s Athena Renewable Energy, being a member of the **Sustainable Projects Developers Association**, has taken a stand in line with the petition filed by the **Association before the Hon’ble Delhi High Court (W.P.(C) 14783/2024)**.
- b. As per the orders passed by the Hon’ble Court:
 - i. On 20.11.2024, the Court directed that no coercive steps be taken against the petitioners till the next date of hearing.
 - ii. On 08.01.2025, the interim order was extended, and the matter is now listed for hearing on 31.07.2025.
 - iii. On 31.07.2025, the interim order was extended and the matter is now listed for hearing on 09.12.2025.
 - iv. On 09.12.2025, the interim order was extended.
- c. In this interim period, M/s Athena has been making partial payments to the Pool Account while formally recording their protest and clarifying that they are not settling the "Deviation Penalty" portion of the DSM bills/demands.

- d. It may also be noted that while other members of the Sustainable Projects Developers Association are making payments in full as per the DSM bills, M/s Athena has adopted a different stand in this regard.
- e. As on 27.05.26, the outstanding dues against Athena entities are as follows:

Entity	Outstanding	Remarks
ATHENA BHIWADI SOLAR POWER Pvt. Ltd.	₹ 2,03,70,621	Part payments since 16.09.24 week onwards
ATHENA HISAR SOLAR POWER Pvt. Ltd.	₹ 2,39,44,188	Part payments since 16.09.24 week onwards
ATHENA KARNAL SOLAR POWER Pvt. Ltd.	₹ 2,06,04,684	Part payments since 16.09.24 week onwards
Grand Total	₹ 6,49,19,493	
Entity	Outstanding	Remarks

This is for kind information for the Forum and M/s. Athena may inform the present status of the case.

Deliberations:

SRLDC apprised the forum that Athena-Bhiwadi, Athena-Hisar, Athena-Karnal are making part payments and requested Athena to update the present status of the case. Athena informed that the next hearing is scheduled for September 2026.

13.2 Outstanding dues and LC status of M/s Manikaran Analytics Limited as on 27.05.2026:

a. Outstanding dues i.r.o drawl charges by MAL Koppal :

- Drawal charges pertaining to MAL Koppal for FY 2025–26 remain unpaid and have been raised separately in the DSM bills under the drawal charges column.
- The details of outstanding dues are summarized below:

Fin Year	Week No	Due Date	Final Charges	Paid Date	Paid Amount	Outstanding
2025-26	50 (09-03-2026 to 15-03-2026)	03-04-2026	₹ 34,56,261	2026-04-09	₹ 34,53,521	₹ 2,740
2025-26	51 (16-03-2026 to 22-03-2026)	10-04-2026	₹ 6,18,760	2026-04-02	₹ 6,17,524	₹ 1,236
	Grand Total					₹ 3,976

- Despite issuance of multiple reminders, the outstanding amounts remain unpaid. Reminder emails were issued to MAL Koppal on 13.04.2026 and 27.05.2026.

MAL Koppal may apprise the status of payment.

b. Outstanding dues i.r.o deviation charges by M/s Manikaran Analytics Limited as on 27.05.2026:

Fin Year	Week No	Entity	Final Charges	Paid Date	Paid Amount	Outstanding
2026-27	Week 5 27-04-2026 – 03-05-2026	Manikaran Analytics Limited (Tuticorin)	₹ 1,08,82,646	21-05-2026	₹ 51,33,211	₹ 57,49,435
2026-27	Week 4 20-04-2026 – 26-04-2026	Manikaran Analytics Limited (Tuticorin)	₹ 1,48,88,629	14-05-2026	₹ 58,62,647	₹ 90,25,982

Fin Year	Week No	Entity	Final Charges	Paid Date	Paid Amount	Outstanding
2026-27	Week 3 13-04-2026 – 19-04-2026	Manikaran Analytics Limited (Tuticorin)	₹ 2,37,40,971	08-05-2026	₹ 1,19,94,317	₹ 1,17,46,654
2026-27	Week 2 06-04-2026 – 12-04-2026	Manikaran Analytics Limited (Tuticorin)	₹ 1,88,93,871	30-04-2026	₹ 94,24,379	₹ 94,69,492
2026-27	Week 5 27-04-2026 – 03-05-2026	Manikaran Analytics Ltd. (Karur)(Wind)	₹ 62,17,672	22-05-2026	₹ 31,41,075	₹ 30,76,597
2026-27	Week 4 20-04-2026 – 26-04-2026	Manikaran Analytics Ltd. (Karur)(Wind)	₹ 92,89,530	14-05-2026	₹ 60,25,638	₹ 32,63,892
2026-27	Week 3 13-04-2026 – 19-04-2026	Manikaran Analytics Ltd. (Karur)(Wind)	₹ 46,61,531		₹ 0	₹ 46,61,531
2026-27	Week 2 06-04-2026 – 12-04-2026	Manikaran Analytics Ltd. (Karur)(Wind)	₹ 56,85,875		₹ 0	₹ 56,85,875
2026-27	Week 4 20-04-2026 – 26-04-2026	Manikaran Analytics Ltd., KOPPAL (Hybrid)	₹ 1,35,37,405	16-05-2026	₹ 32,21,341	₹ 1,03,16,064
2026-27	Week 3 13-04-2026 – 19-04-2026	Manikaran Analytics Ltd., KOPPAL (Hybrid)	₹ 1,33,66,847	08-05-2026	₹ 35,62,129	₹ 98,04,718
2026-27	Week 2 06-04-2026 – 12-04-2026	Manikaran Analytics Ltd., KOPPAL (Hybrid)	₹ 96,38,565	29-04-2026	₹ 51,80,886	₹ 44,57,679
2026-27	Week 4 20-04-2026 – 26-04-2026	Manikaran Analytics Ltd., NPKUNTA (Solar)	₹ 31,358		₹ 0	₹ 31,358
2026-27	Week 2 06-04-2026 – 12-04-2026	Manikaran Analytics Ltd., NPKUNTA (Solar)	₹ 55,481		₹ 0	₹ 55,481
		Grand Total	₹ 13,08,90,381			₹ 7,73,44,758

c. Non opening of LC by M/s Manikaran Analytics Limited:

• **MAL Koppal:**

Entity name	LC Amount (Rs. In lacs)	Status
Manikaran Analytics Ltd., KOPPAL (Hybrid)	₹ 67.89	Not Opened
Renew Surya Ojas private Limited	₹ 2.16	Not Opened

• **MAL Tuticorin:**

Entity name	LC Amount (Rs. In lacs)	Status
Mytrah Vayu (Sabarmati) Private Limited	₹ 17.32	Not Opened
JSW RENEW Energy Limited	₹ 25.67	Not Opened
JSW RENEW ENERGEY TWO LTD	₹ 23.94	Not Opened
Manikaran Analytics Limited (Tuticorin)	₹ 115.92	Not Opened

• **MAL Karur:**

Entity name	LC Amount (Rs. In lacs)	Status
JSW Renew Energy Ltd.	₹ 58.53	Not Opened
JSW Renew Energy Two Ltd.	₹ 76.53	Not Opened
TP VARDHAMAN SURYA LIMITED (KARUR)	₹ 35.28	Not Opened
Manikaran Analytics Ltd.(Karur)(Wind)	₹ 6.14	Not Opened

Letter communications in this regard were issued on 04.05.2026.

M/s Manikaran Analytics Limited may expedite the process of opening of the Letter of Credit (LC).

a. Interest outstanding dues to be paid by M/s Manikaran Analytics Limited as on 27.05.2026:

Entity	Outstanding (₹)	Remarks
Manikaran Analytics Limited (Tuticorin)	₹ 5,53,533	- March'25 (₹ 3,071) - June '25 (₹ 38) - September'25 (₹ 3,75,474) - October'25 (₹ 1,74,950)
Manikaran Analytics Ltd., NPKUNTA (Solar)	₹ 11,322	- June'25 (₹ 8,778) - July'25 (₹ 1,688) - October (₹ 856)
Grand Total	₹ 5,64,855	

M/s Manikaran Analytics Limited may apprise the status of payment

b. SEMs to be installed by RSOPL

An online meeting was convened on 7th November 2024 at 14:30 hrs to discuss metering and accounting of Renew Surya Ojas Private Limited (RSOPL) (WS with ESS). During the meeting RSOPL confirmed the number of feeders and confirmed that main meters are available at all feeders at 33kV level, whereas, check meters/ stand by meters are not available. SRPC pointed out that since main meters at 33kV are required for accounting purpose, RSOPL needs to provide check meters at 33kV feeders. It was also noted that meters are required on HV side and LV side of all 220/33kV PTRs at RSOPL SS. RSOPL was requested to explore the possibility of the same. Further the accounting philosophy was provisionally approved by SRPC.

13.3 Outstanding dues and LC status of M/s RECONNECT ENERGY SOLUTIONS LIMITED as on 27.05.2026:

a. Outstanding dues i.r.o reactive charges by M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada):

The outstanding dues i.r.o reactive charges as on 27.05.2026 is shown below:

Fin Year	Week No	Letter date	Due Date	Final Charges	Paid Date	Paid Amount	Outstanding	Days pending since due date
2025-26	44 (26.01.2026 - 01.02.2026)	10-02-2026	20-02-2026	₹ 1,15,755	20-02-2026	₹ 1,14,354	₹ 1,401	96 days
2025-26	45 (02.02.2026 - 08.02.2026)	17-02-2026	27-02-2026	₹ 1,07,720	27-02-2026	₹ 1,02,844	₹ 4,876	89 days
2025-26	46 (09.02.2026 - 15.02.2026)	24-02-2026	06-03-2026	₹ 1,16,078	11-03-2026	₹ 1,10,843	₹ 5,235	82 days
2025-26	48 (23.02.2026 - 01.03.2026)	10-03-2026	20-03-2026	₹ 1,39,144	23-03-2026	₹ 1,33,046	₹ 6,098	68 days
2025-26	49 (02.03.2026 - 08.03.2026)	17-03-2026	27-03-2026	₹ 1,30,156	30-03-2026	₹ 1,24,761	₹ 5,395	61 days
2025-26	50 (09.03.2026 - 15.03.2026)	24-03-2026	03-04-2026	₹ 1,25,677	07-04-2026	₹ 1,15,566	₹ 10,111	54 days
2025-26	51 (16.03.2026 - 22.03.2026)	01-04-2026	11-04-2026	₹ 1,52,196	14-04-2026	₹ 1,45,313	₹ 6,883	46 days
2025-26	52 (23.03.2026 - 29.03.2026)	07-04-2026	17-04-2026	₹ 1,15,202	18-04-2026	₹ 1,10,151	₹ 5,051	40 days
2026-27	1 (30.03.2026 - 05.04.2026)	15-04-2026	25-04-2026	₹ 1,37,214	27-04-2026	₹ 1,31,246	₹ 5,968	32 days
2026-27	2 (06.04.2026 - 12.04.2026)	21-04-2026	01-05-2026	₹ 1,27,073	30-04-2026	₹ 1,15,474	₹ 11,599	26 days
2026-27	3 (13.04.2026 - 19.04.2026)	28-04-2026	08-05-2026	₹ 1,27,399	10-05-2026	₹ 92,567	₹ 34,832	19 days
2026-27	4 (20.04.2026 - 26.04.2026)	05-05-2026	15-05-2026	₹ 1,47,557		₹ 0	₹ 1,47,557	12 days
2026-27	5 (27.04.2026 - 03.05.2026)	12-05-2026	22-05-2026	₹ 1,21,408		₹ 0	₹ 1,21,408	05 days
Grand Total				₹ 16,62,579			₹ 3,66,414	

M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) may apprise the status of payment.

b. Outstanding dues i.r.o Deviation charges by M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) :

Fin_year	Week No	Final Charges	Paid Date	Paid Amount	Outstanding
2026-27	1 (30.03.2026 - 05.04.2026)	₹ 1,08,34,695	27-04-2026	₹ 1,01,63,615	₹ 6,71,080
2026-27	2 (06.04.2026 - 12.04.2026)	₹ 66,50,580	30-04-2026	₹ 61,56,385	₹ 4,94,195
2026-27	3 (13.04.2026 - 19.04.2026)	₹ 54,96,954	10-05-2026	₹ 44,51,156	₹ 10,45,798
2026-27	4 (20.04.2026 - 26.04.2026)	₹ 7,26,313		₹ 0	₹ 7,26,313
		₹ 2,37,08,542		₹ 2,07,71,156	₹ 29,37,386

M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) may apprise the status of payment.

c. Non opening of LC by M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada):

Entity name	LC Amount (Rs. In lacs)	Status
AMPLUS Tumkur Solar Energy One Private Limited	₹ 1.98	Not Opened

Azure Power Earth Private Limited	₹ 5.45	Not Opened
GENTARI RENEWABLE FINNSURYA ENERGY PVT LTD.	₹ 11.77	Not Opened
RECONNECT ENERGY SOLUTIONS LIMITED PAVAGADA	₹ 36.79	Not Opened

Letter communications in this regard were issued on 04.05.2025.

M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) may expedite the process of opening of the Letter of Credit (LC).

d. Non-submission of Payment Breakup by M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada)

- M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) had agreed during the initial SRPC meeting to furnish a detailed breakup of payments whenever part payments are made.
- However, the breakup details for payments made are not being provided.
- In this regard, M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) is requested to adhere the same and submit the detailed payment breakup immediately after each payment.

e. Non-payment of outstanding interest due to delayed payment:

Outstanding Dues (₹)	Remarks
69,811	Sept'25 (₹10,085) Oct'25 (₹10,940) Nov'25 (₹48,786)

M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) may apprise the status of payment.

Deliberations:

- a) SRLDC apprised that the Reactive and DSM charges pertaining to RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) was not paid for few weeks. M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) informed that they will follow up with the Generators and will clear the outstanding dues.
- b) Regarding opening of LC's, M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) informed that they will coordinate with the concerned generators regarding the opening of the required Letters of Credit (LCs).
- c) SRLDC informed M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) to submit the detailed payment breakup immediately after each payment.
- d) With respect to Interests outstanding, M/s RECONNECT ENERGY SOLUTIONS LIMITED (Pavagada) informed that they will check and clear the outstanding interest amounts.

13.4 Outstanding dues pertaining pool accounts of other RE Generators:

a. Non-payment of outstanding DSM charges as on 27.05.26 considered up to Week 05 (27-04-2026 – 03-05-2026):

Entity	Outstanding	Remarks
FORTUM SOLAR INDIA PVT LTD	₹ 5,67,120	Wk 3 pending
IRCON RENEWABLE POWER LIMITED	₹ 3,05,296	Wk 3 pending
Kleio Koppal(Hybrid)	₹ 15,40,690	Wk 3,4 pending
Ostro Kannada Power Private Limited	₹ 1,66,59,235	Wk 1,2,3,4 pending

Entity	Outstanding	Remarks
ReNew Surya Roshni Private Limited Gadag	₹ 1,56,16,455	Wk 1,2,3,4,5 pending
Renew Surya Roshni private Limited	₹ 2,82,30,441	Wk 1,2,3,4,5 pending
SAEL SOLAR MHP1 PRIVATE LIMITED	₹ 86,38,785	Wk 1,2,3,4,5 pending
SAEL SOLAR MHP2 PRIVATE LIMITED	₹ 74,65,545	Wk 1,2,3,4,5 pending
SPRNG RENEWABLE ENERGY PRIVATE LIMITED	₹ 1,77,26,805	Wk 2,3,4,5 (part payments)
Sembcorp Green Infra Private Limited	₹ 44,57,512	Wk 3,4,5 pending
Serentica3 Gadag	₹ 1,20,50,062	Wk 1,2,3,4,5 (part payments)
Sprng Akshaya Urja Private Limited	₹ 1,09,40,455	Wk 2,3,4,5 (part payments)
Vena Energy Vidyuth Private Limited	₹ 1,48,29,996	Wk 1,2,3,4,5 pending
ZENATARIS RENEWABLE ENERGY PVT. LTD(HIRIYUR)	₹ 77,27,676	Wk 4,5 pending
Grand Total	₹ 14,67,56,073	

b. Non-payment of outstanding Reactive charges as on 27.05.26 considered up to Week 05 (27-04-2026 – 03-05-2026) :

Entity	Outstanding	Remarks
Azure Power thirty six private limited	₹ 16,963	Wk 48,49 pending
FORTUM SOLAR INDIA PVT LTD	₹ 20,441	Wk 40 pending
JSW Renew Energy Ltd.(KARUR),(Wind)	₹ 1,205	Wk 4,6(2025-26) pending
Manikaran Analytics Limited (Tuticorin)	₹ 4,989	Wk 5(2026-27) part payment
Manikaran Analytics Ltd., NPKUNTA (Solar)	₹ 7,286	Wk 5(2026-27) part payment
RECONNECT ENERGY SOLUTIONS LIMITED PAVAGADA	₹ 3,66,414	Wk 44-52(2025-26) part payments & Wk 1-5(2026-27) part payments
Sembcorp Green Infra Private Limited	₹ 1,860	Wk 46 & Wk 4,5(2026-27) pending
Vena Energy Vidyuth Private Limited	₹ 4,976	Wk 37-39(2024-25), Wk 18,19(2025-26) & Wk 5 (2026-27) pending
Grand Total	₹ 4,24,134	

c. Non-payment of outstanding Interest payments as on 27.05.2026:

Entity	Outstanding (₹)
AYANA RENEWABLE POWER SIX PRIVATE LIMITED	₹2,36,219
IRCON RENEWABLE POWER LIMITED	₹ 29,452
KARNATAKA RENEWABLE ENERGY DEVELOPMENT LTD	₹ 247
Sembcorp Green Infra Private Limited	₹ 2128
Vena Energy Vidyuth Private Ltd(Gadag),(Hybrid)	₹ 3,17,693
Zentaris Renewable Energy,Hiriyur,(Wind)	₹ 2906
Grand Total	₹ 5,88,645

CERC vide Order dt 13.01.2024 in 28/MP/2022 directed NLDC to monitor the instances of wilful default/delay in timely payment of deviation charge and brought to the notice of the Commission for suitable penal action under Section 142 of the Electricity Act, 2003.

Quote

*On the expectation that the regional entities shall adhere to timely payment of the deviation charge in the future, we are not proceeding any further in this regard in the present petition. However, **we direct the NLDC that instances of wilful default/delay be monitored in the future and brought to this Commission for suitable penal action under Section 142 of the Electricity Act, 2003.** We also direct NLDC to examine the need for a review of Regulation 10 of the DSM Regulations, 2022, if any, to further ensure discipline in the payment of DSM charges, including the consequences of not opening LC, and make recommendations for suitable provisions in the regulations and/or recommendations to the Ministry of Power for suitable provisions in the LPS Rules 2022.*

Unquote

Accordingly, all entities are requested to ensure timely payment.

d. Non opening of LC as on 27.05.2026:

Clause 10 (2) of CERC Deviation Settlement Mechanism and related matters Regulations, 2024 vide notification No. L-1/260/2021/CERC dated 05th August 2023 to be implemented from 16.09.2024 is reproduced below:

Quote

"Any regional entity which at any time during the previous financial year fails to make payment of charges for deviation within the time specified in these regulations, shall be required to open a Letter of Credit (LC) equal to 110% of their average payable weekly liability for deviations in the previous financial year in favour of the concerned Regional Load Despatch Centre within a fortnight from the start of the current financial year....."

Unquote

The remaining list of entities yet to open LC for FY 2025-26 due to default in payment of Deviation charges by SR constituents is given below:

Entity name	LC Amount (Rs. In lacs)
Azure Power thirty six private limited	7.14
Sembcorp Green Infra Private Limited	9.53
Greenko AP01 IREP Pvt Limited	96.76
IRCON RENEWABLE POWER LIMITED	9.14
Kleio Koppal(Hybrid)	21.11
Ostro Kannada Power Private Limited	33.43
Renew Surya Roshni private Limited	64.4
ReNew Surya Roshni Private Limited Gadag	16.38
SPRNG RENEWABLE ENERGY PRIVATE LIMITED	70.82
Serentica3 Gadag	12.52
Sprng Akshaya Urja Private Limited	17.03
SAEL SOLAR MHP1 PRIVATE LIMITED	2.61
SAEL SOLAR MHP2 PRIVATE LIMITED	2.06
SEIL Energy India Limited	110.43
Vena Energy Vidyuth Private Limited	22.89
ZENATARIS RENEWABLE ENERGY PVT. LTD(HIRIYUR)	4.54

Letter communications in this regard were issued on 04.05.26

All are requested to expedite the process of opening of the Letter of Credit (LC).

Deliberations:

SRLDC apprised the forum regarding the outstanding dues of DSM charges, Reactive Charges, non-opening of Letters of Credit (LCs) and non-payment of interest charges in respect of other RE generators. Sembcorp Green Infra Private Limited, Vena Energy Vidyuth Private Limited, Kleio Koppal have responded and informed that they will check and clear the outstanding dues. No response was received from the other developers.

e. Reconciliation of DSM, NETAS and Reactive charges:

The signed reconciliations uploaded in the pool account portal and the link for portal will be <https://poolaccounts.srldc.in/#/auth/login>. And the Login credentials have already been shared with all users via their registered email IDs.

Members are requested to download the reconciliation statement from the portal and upload the duly signed reconciliation statement in the same portal.

In case of non-receipt of login details or any queries regarding to opening and closing balance, members are requested to write to dsmsrldc@grid-india.in for faster resolution.

It is requested to share the static IP addresses to dsmsrldc@grid-india.in for the purpose of whitelisting.

Deliberations:

SRLDC apprised the forum regarding uploading of signed reconciliation in the Pool Account Portal and to approach SRLDC in case of any issues.

13.5 Time Drift:

The following meters are having time drift. Time drift in SEMs shall be less than 1 min. The same may be rectified.

Time Drift >1 min

Utility	No of Meters >1 min to <5 Min
SOLAR	13
KNTL	2
Karur_TL	1
Grand Total	16

List of meters as on 27.05.2026 having **time drift >1 min** is enclosed in **Annexure -4**.

All entities in the Annexure-4 requested to correct the time drift.

13.6 Non receipt of Time Drift:

Time drift statement needed to be uploaded by 12:00 hrs of first Monday of every month to SRLDC Time drift portal using following link:

<https://timedrift.srldc.in/login/>

Note: As on 27.05.26, number of entities who have not uploaded time drift for the month of May-2026 are as follows:

- QCA Manikaran Analytics Ltd. at stations Tuticorin, Koppal, Karur & NPKunta.

Deliberations:

SRLDC informed the developers to ensure uploading of time drift statement by 12:00hrs of first Monday of every month.

13.7 Meter Issues:

Meter AP-0722-A (Stand by meter) connected at 33KV (Ananthapuram Solar Park) NP Kunta Line-5 at NP Kunta PS-1(solar) NTPC, is recording incorrect due to time difference of approximately 7 hours. The issue is pending from 10-04-2026 19:30Hrs. Regular communications have been issued by SRLDC every week regarding the discrepancy; however, the issue still remains the same.

Deliberations:

SRLDC apprised the forum regarding the issue pending from 10-04-2026 19:30Hrs and requested to resolve the long pending Issue. QCA Manikaran Analytics Ltd. informed the forum that the issue would be expedited and resolved at the earliest.

13.8 Item for Information: Up-dation of CT/PT Ratio and SEM details

The meter details along with the CT/PT ratio along with SEM details with locations is being uploaded weekly at SRLDC website (www.srldc.in). Constituents are requested to verify their respective CT/PT ratio as well as SEM details and point out to SRLDC/SRPC in case of any discrepancy to avoid any post facto correction.

Entities have to timely notify SRLDC, about changes made to the CT/PT ratios.

14. SCADA & Communication (SRLDC Agenda Items)

14.1 Compliance to CERC Regulations and CEA Technical Standards

The Forum was apprised of the status of compliance by RE entities with the applicable CERC Regulations, CEA Technical Standards and IEGC requirements relating to redundant SCADA communication, cybersecurity, UNMS integration and VOIP communication facilities.

- a) **Dual reporting of SCADA channels to Main and Backup RLDC**- Each remote station must have a dedicated and redundant communication channel with route diversity for data communication between the user and Control Centre, as per the Interface Requirements under CERC (Communication System for inter-State transmission of Electricity) Regulations, 2017. In the previous RE sub-committee meetings, SRLDC had requested all RE developers to submit the dual channel data along with action plan to comply with Interface requirements. Currently, **10** RE stations have yet to provide a dual channel connection to the Backup RLDC.

 The importance of dual and route-diverse communication channels to the Main and Backup RLDCs was emphasised, particularly from the perspective of maintaining uninterrupted real-time visibility and operational communication during failure of the primary communication path. The RE entities which are yet to provide dual-channel connectivity to the Backup RLDC were advised to expedite the implementation and furnish a definite action plan with timelines.

Following stations are yet to provide dual channels to Main and Backup RLDC and their response is given below:

-  **Ayana Solar** – Awaiting response from vendor on drawings, assured to provide the dual channels on priority.
-  **Spring Solar** – APSPCL is planning a visit to Spring by next week to ascertain the work. SRLDC insisted on Spring to taken up with APSPCL as the it is a long pending issue.

- 🚧 **Ramagundam Solar-** OEM requested for clarifications, which is shared with SRLDC. SRLDC replied to the clarifications on 24th June 2026. NTPC assured that issue will be resolved on priority.
- 🚧 **Kayamkulam Solar-** Backup channel configuration under progress. NTPC assured that issue will be resolved on priority.
- 🚧 **Renew Surya Roshini (Koppal)-** PO placed in March 2026. Awaiting visit from engineer
- 🚧 **Serentica-I Koppal-**Integrated dual channels in Backup CC.
- 🚧 **Pavagada(KSPDCL & developer stations)** –Existing D400 no spare ports available. SRLDC informed that the device to be augmented for complying to the regulations. KSPDCL informed they will take up with the management, KSPDCL assured that issue will be resolved on priority.

- b) **Cyber Security Requirements-** As per the CERC Guidelines on Interface Requirements, each remote site needs to have.

“Necessary firewall/router as per requirement shall be provided by the respective users while connecting the remote equipment with the control centre network. Direct connectivity with the operational network be avoided while connecting the remote station and shall be through firewall with necessary VLAN configuration.”

In line with the above, the status of firewall installation by RE entities is enclosed in **Annexure-5**. All RE entities to furnish the firewall/router details in line with cyber security requirements.

- 🚧 SRLDC highlighted the need for **firewall-based secure connectivity and avoidance of direct connection of remote stations to the operational network**. RE entities were advised to ensure that appropriate firewall/router and VLAN-based security arrangements are implemented and the relevant details are furnished to SRLDC.

- c) **Integration of UNMS equipment-** As per the CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020,

“8(5) User shall ensure centralised monitoring or management of its communication network and shall provide necessary facilities for configuration, identification of fault and generation of various reports on availability of the communication system and

19(2) Users shall provide necessary support to interface their network management system or network element with centralized network management system.”

In line with the above, all RE developers were advised to coordinate with POWERGRID, the implementing agency for SR-UNMS, for integration of their communication systems with the Southern Region Network Management System (SR-UNMS) and to provide periodic status updates.

The integration of FOTE by RE entities with the UNMS Data Centre has been under discussion since the 1st RE Subcommittee Meeting. However, several RE entities are yet to extend the management port to SR-UNMS. Further, it has been observed that while a few RE entities have extended the management port, the link connectivity details have not been furnished.

- 🚧 The Forum was apprised of the progress of **FOTE integration with SR-UNMS**. It was emphasised that centralised monitoring and management of communication systems is important for early identification of communication failures, monitoring availability and

facilitating timely restoration. RE entities yet to extend the required management ports or furnish complete link connectivity details were advised to coordinate with POWER-GRID and expedite the integration.

- 📌 The current status of UNMS integration by RE entities is enclosed as **Annexure-5**. All RE entities are requested to expedite integration of FOTE and furnish complete link connectivity details to SR-UNMS at the earliest to ensure regulatory compliance.

- d) **Provision of VOIP:** As per IEGC clause 11(1), reliable speech and data communication systems shall be provided to facilitate necessary communication to SRLDC. All RE entities are requested to ensure VOIP provision

The present status of all RE entities for the above points are attached as **Annexure-5**. All entities are requested to update the action plan with a timeline for early resolution of the issues.

Deliberations on agenda 14.1 (b), 14.1(c) and 14.1 (d) are also in Annexure-7

14.2 Segmentation of RTU Channels through VLAN for APSPCL and associated RE developer stations.

In line with the recommendations of the Taskforce on the RTU failure incident at Telangana SLDC, segmenting the remote stations through separate VLANs for each channel is being taken up. APSPCL is requested to expedite configuration of VLAN of 220kV Galiveedu DCPC, 220kV NP Kunta DCPC, 220kV NP Kunta PS2, NP Kunta PS3, Spring Solar and Ayana Solar at SRLDC Main Control Centre. Further, APSPCL, Ayana and Spring are requested to inform the action plan for VLAN configuration to SRLDC MCC, Bangalore.

In 3rd RE Sub Committee Spring Energy has informed that VLAN conversion will be completed by 31st Oct 2025, while Ayana has committed to complete by 30th Nov 2025, however same is still pending and APSPCL yet to update the action plan, even after multiple reminders to these entities.

APSPCL, Ayana and Spring Energy is requested to update the action plan with firm timeline.

Deliberations

SRLDC informed the Forum that **VLAN-based segregation of remote station IEC-104 communication channels** is being implemented in line with the recommendations of the Taskforce constituted following the RTU failure incident at Telangana SLDC. It was highlighted that segregation of the communication channels through separate VLANs would provide better isolation of individual RTU channels, reduce the possibility of a common communication failure and improve the reliability and security of real-time data communication with the Load Dispatch Centres.

APSPCL was requested to expedite the VLAN configuration for the identified APSPCL RTUs and the associated **Spring Solar and Ayana Solar RTUs** at both the SRLDC Main and Backup Control Centres. The pending implementation was noted, particularly in view of the timelines committed earlier in the RE Sub-Committee meetings.

- Ayana informed the Forum that the matter has been taken up with its vendor and that the VLAN configuration is expected to be completed by **31.07.2026**.
- Spring Energy informed that support/coordination from APSPCL is required for completing the configuration and stated that it would furnish a revised action plan.

The Forum emphasised that the matter has been pending for considerable time despite earlier commitments and reminders. APSPCL, Ayana and Spring Energy were therefore advised to

coordinate closely, identify the remaining technical dependencies and furnish firm timelines for completion, so that the VLAN-based segregation can be implemented without further delay.

14.3 Testing of Signal Reception Capability for RE Stations with 500 MW and above Aggregate Capacity

As per CEA Connectivity Regulation 4.5, RE generating stations with an aggregate capacity of 500 MW and above must have the provision to receive signals from the State Load Dispatch Centre (SLDC) or Regional Load Dispatch Centre (RLDC), as applicable, for varying active and reactive power output.

In line with this regulation, the following three plants in the Southern Region (SR) are mandated to receive the signals from the LDCs:

- a. JSW2 Tuticorin-540MW
- b. AMGEPL/Greenko- 2620MW

During the 4th RE Sub-Committee meeting, JSW F2 informed that installation has been completed, and testing has been carried out on one channel for JSW F2. However, the power factor mode is yet to be demonstrated, and fine-tuning is required in other operating modes. SRLDC advised that testing should also be completed on the second channel for the system to be considered fully integrated. As per the information received from JSW, the control point testing will be scheduled based on wind availability.

Greenko completed integrated testing of Greenko Solar and PSP completed by 29th April 2026. In the meeting held on 01st Apr 2026 under the chairmanship of chairperson CEA, Greenko committed to complete the testing involving wind and solar projects of AMGEPL along with Greenko PSP and Solar by 30th June 2026. Greenko/AMGEPL may update the status.

Deliberations

The Forum was apprised of the requirement under CEA Connectivity Regulations for RE generating stations with an aggregate capacity of **500 MW and above** to have the capability to receive signals from the concerned SLDC/RLDC for regulating active and reactive power output. It was highlighted that this capability is important for secure integration of large RE/ESS resources and for enabling the Load Despatch Centre to exercise the required control during system conditions requiring generation or reactive power modulation.

JSW informed the Forum that the testing could not be carried out as planned due to **low generation/availability of wind resource** and stated that testing would be planned during the first week of July 2026. SRLDC emphasised that testing of all required channels and operating modes, including **active power, reactive power/power factor control**, needs to be completed for considering the facility fully integrated.

With regard to Greenko/AMGEPL, Greenko informed that the combined testing of the Greenko PSP and Solar plant was completed on 30.04.2026. However, as per the Minutes of the CEA meeting held on 01.04.2026, Greenko had committed to complete the testing involving AMGEPL Solar and Wind projects along with Greenko PSP and Solar by 30.06.2026.

Greenko informed the Forum that the combined testing involving AMGEPL is now planned during **August 2026**. SRLDC observed that the revised timeline extends beyond the commitment made in the CEA meeting and advised that the revised timeline should not be considered acceptable without appropriate approval from CEA/Chairperson CEA. Greenko was therefore advised to take up the matter with CEA and obtain the necessary approval for the revised testing schedule.

The Forum emphasised that the testing should be completed **under suitable generation conditions and for all prescribed operating modes/channels**, so that the actual response of the plant to LDC control signals can be verified before declaring full compliance.

14.4 Consistent reporting of Weather Parameters from Remote site

All renewable energy (RE) stations are requested to ensure continuous reporting of weather parameters to SRLDC. As per CEA directives, high quality of weather data is crucial for accurate forecasting of RE generation. Solar RE plants is required to telemeter the following weather data to the respective State/Regional REMCs:

- a. Global Horizontal Irradiance (Watts per meter square)
- b. Ambient temperature (degree Celsius)
- c. Diffuse Irradiance (Watts per meter square)
- d. Direct Irradiance (Watts per meter square)
- e. Relative humidity (%)
- f. Cloud cover (Okta)
- g. Precipitation (mm)

However, it is observed that Diffuse irradiance and Direct irradiance is not being telemetered to SRLDC for the ISTS Solar plants.

Weather parameters of following stations are not reporting in real time to SRLDC:

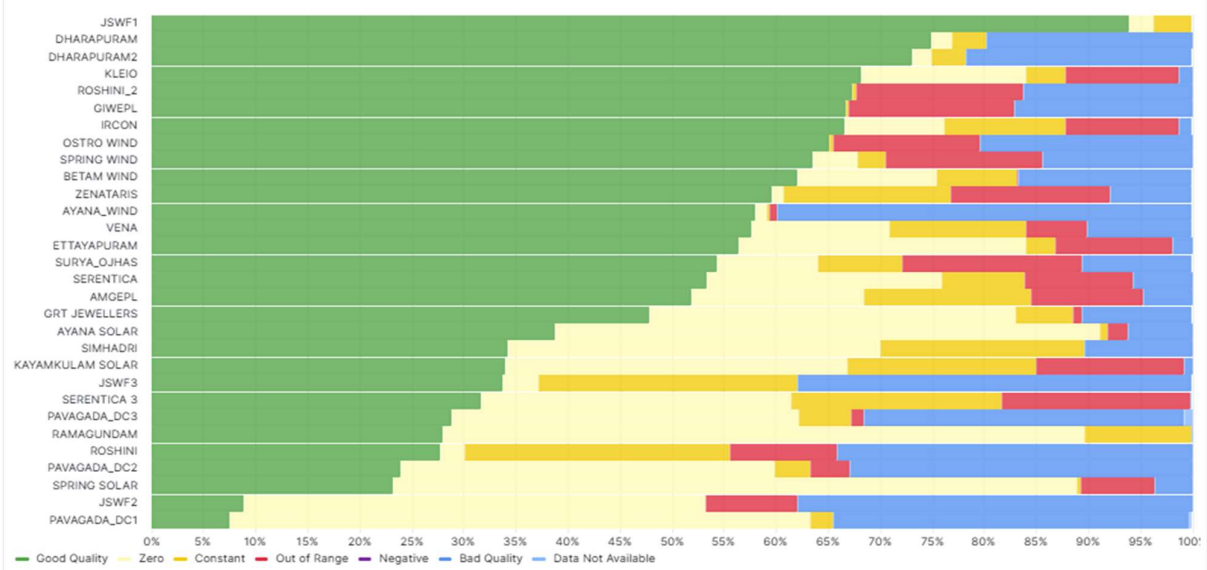
ACME B37, ACME B38, ADYAH B1, ADYAH B10, ADYAH B13, ADYAH B3, ADYAH B2, ADYAH B6, AVADA B4, AVADA B8, AVADASLR B22, AVADASLR B39, AYANA SOLAR, AZURE B11, FORTUM B14, FORTUM B20, FORTUM B40, FORTUM B05, FORTUM B9, YARROWB35

Following is the statistics of weather parameter availability past 3 months:

Station Data Quality Matrix (%) ⓘ

Station Name ▼	Good Quality ▼	Zero ▼	Constant ▼	Out of Range ▼	Negative ▼	Bad Quality ▼	Data Not Avai ▼
JSWF1	93.9%	2.4%	3.6%	0.0%	0.0%	0.1%	0.0%
DHARAPURAM	75.0%	2.0%	3.3%	0.0%	0.0%	19.8%	0.0%
DHARAPURAM2	73.1%	1.9%	3.3%	0.0%	0.0%	21.8%	0.0%
KLEIO	68.2%	15.8%	3.8%	11.0%	0.0%	1.3%	0.0%
ROSHINI_2	67.3%	0.0%	0.4%	16.0%	0.0%	16.2%	0.0%
GIWEPL	66.7%	0.1%	0.3%	16.0%	0.0%	17.1%	0.0%
IRCON	66.6%	9.6%	11.6%	11.0%	0.0%	1.3%	0.0%
OSTRO WIND	65.1%	0.0%	0.5%	14.1%	0.0%	20.4%	0.0%
SPRING WIND	63.6%	4.2%	2.7%	15.0%	0.0%	14.5%	0.0%
BETAM WIND	62.1%	13.3%	7.8%	0.0%	0.0%	16.8%	0.0%
ZENATARIS	59.6%	1.1%	16.0%	15.4%	0.0%	7.9%	0.0%
AYANA_WIND	58.0%	1.1%	0.3%	0.8%	0.0%	39.8%	0.0%
VENA	57.7%	13.2%	13.2%	5.9%	0.0%	10.1%	0.0%
ETTAYAPURAM	56.5%	27.5%	2.8%	11.3%	0.0%	2.0%	0.0%
SURYA_OJHAS	54.4%	9.6%	8.2%	17.2%	0.0%	10.6%	0.0%
SERENTICA	53.4%	22.5%	7.9%	10.5%	0.0%	5.7%	0.0%
AMGEPL	51.9%	16.6%	16.0%	10.8%	0.0%	4.7%	0.0%
GRT JEWELLERS	47.9%	35.2%	5.5%	0.8%	0.0%	10.6%	0.0%
AYANA SOLAR	38.8%	52.3%	0.8%	1.9%	0.0%	6.2%	0.0%
SIMHADRI	34.3%	35.8%	19.6%	0.0%	0.0%	10.3%	0.0%
KAYAMKULAM SOLAR	34.0%	32.9%	18.2%	14.2%	0.0%	0.8%	0.0%
JSWF3	33.8%	3.4%	24.9%	0.0%	0.0%	37.9%	0.0%
SERENTICA 3	31.7%	29.7%	20.2%	18.1%	0.0%	0.2%	0.0%
PAVAGADA_DC3	28.9%	33.3%	5.1%	1.2%	0.0%	30.8%	0.8%
RAMAGUNDAM	28.1%	61.6%	10.3%	0.0%	0.0%	0.1%	0.0%
ROSHINI	27.7%	2.3%	25.5%	10.4%	0.0%	34.1%	0.0%
PAVAGADA_DC2	24.0%	35.9%	3.4%	3.8%	0.0%	32.9%	0.0%
SPRING SOLAR	23.3%	65.6%	0.4%	7.1%	0.0%	3.6%	0.0%
JSWF2	8.9%	44.4%	0.0%	8.9%	0.0%	37.9%	0.0%
PAVAGADA_DC1	7.5%	55.7%	2.2%	0.0%	0.0%	34.2%	0.3%

Station Data Reliability Leaderboard (%) ⓘ



All concerned **RE entities** are requested to submit a **time-bound action plan** for integration and correction of the pending weather telemetry parameters from their respective remote stations.

Deliberations

RLDC informed the Forum that the availability of continuous, accurate and good-quality weather data from RE generating stations is essential for improving RE forecasting, scheduling and real-time grid operation. It was particularly highlighted that parameters such as irradiance, temperature, humidity and cloud cover provide important inputs for assessing the expected generation and understanding variations in solar generation.

SRLDC informed that the concerned RE developers are being regularly intimated through daily emails regarding non-availability of weather telemetry. However, except for JSW and NTPC Kayamkulam, the response from the RE developers has been limited. The Forum emphasised that the RE developers should have appropriate monitoring mechanisms at their end to identify telemetry failures and take timely corrective action rather than relying only on notifications from SRLDC.

KSPDCL requested SRLDC to include the station-wise data non-availability status of each developer in the daily communication. SRLDC agreed to incorporate the same and informed that the weather telemetry deficiencies are also being highlighted through monthly communications.

The issue was also recalled as having been deliberated in the previous RE Sub-Committee meeting, particularly with respect to KSPDCL stations and the associated RE developers. KSPDCL informed the Forum that the matter would be reviewed with the concerned developers and an update would be furnished.

It was further emphasised that the required weather parameters, including Global Horizontal Irradiance, Diffuse Irradiance, Direct Irradiance, ambient temperature, relative humidity, cloud cover and precipitation, wherever applicable, should be continuously telemetered with good data quality. The Forum stressed that persistent gaps in weather telemetry can adversely affect forecasting accuracy and consequently have implications for secure and efficient grid operation.

Conclusion

All concerned RE entities were requested to submit a time-bound action plan for restoration/integration of the pending weather telemetry parameters and ensure continuous availability of accurate and good-quality weather data to SRLDC.

The entities shall also establish suitable internal monitoring mechanisms for prompt identification and rectification of telemetry failures.

14.5 Koppal communication FOTE issue

It has been observed that the FOTEs connected at Koppal Pooling Station are configured in a linear (daisy-chain) topology. In the event of an issue at any intermediate node, all downstream radially connected nodes become unreachable, resulting in loss of visibility of RE plant data at SRLDC.

A recent instance of this issue was observed on 22nd April 2026, when a problem occurred at the Serentica node at Koppal Pooling Station, leading to complete loss of data visibility (680 MW) from Klieo and TP Saurya Stations along with Serentica station, as the Klieo node is connected through the Serentica – Ayana – Koppal Pooling Station path.

Similarly, on 15-04-2026, a disruption in the SDH panel at 400 kV Koppal Pooling Station resulted in complete loss of data visibility from 12:05 hrs to 18:05 hrs. During this period, real-time SCADA and PMU data from the pooling station and downstream connected Renewable Energy (RE) stations—Ayana Wind, RSRPL Koppal, RSOPL Koppal, Serentica Koppal, Tata Saurya Koppal, and Klieo—were unavailable. The affected pooling station has an aggregate installed RE capacity of

approximately 1800 MW, leading to a critical loss of generation visibility during peak solar hours and a high-demand season. Such prolonged non-availability of real-time data significantly impacted grid monitoring and secure system operation.

As per the provisions of the IEGC 2023, all users, STUs, CTUs and generating stations are required to ensure reliable and continuous voice and data communication with RLDC/SLDC, including real-time telemetry and SCADA data, to enable secure grid operation and system monitoring. Further, the CEA (Technical Standards for Communication System in Power System Operation) Regulations mandate that the communication system shall be designed, operated and maintained to ensure reliable, secure and uninterrupted data flow to Load Despatch Centres, with adequate redundancy to avoid single point of failure and ensure high system availability. The regulations also emphasize that any communication failure affecting real-time data availability shall be restored in a time-bound manner to minimize impact on grid operations.

Accordingly, the prolonged non-availability of SCADA/PMU data from a critical 1800 MW RE pooling station is not in line with the regulatory requirements of continuous and reliable data availability to SRLDC/RLDC and requires immediate attention for strengthening redundancy and ensuring faster restoration.

In 69th COMSR meeting, SPRC advised M/s. Indigrid to submit detailed report to SRLDC on the incident and action plan to avoid recurrence of the incident.

RE developers connected to Koppal and GADAG (IndiGrid) to update the status.

Deliberations

SRLDC highlighted recent disruptions at Koppal Pooling Station which led to a critical loss of generation visibility of approximately 1800MW. It has been observed that the FOTEs connected at Koppal Pooling Station are configured in a linear (daisy-chain) topology. In the event of an issue at any intermediate node, all downstream radially connected nodes become unreachable, resulting in loss of visibility of RE plant data at SRLDC.

The prolonged non-availability of SCADA/PMU data from a critical 1800 MW RE pooling station is not in line with the regulatory requirements of continuous and reliable data availability to SRLDC/RLDC and requires immediate attention for strengthening redundancy and ensuring faster restoration.

In 69th COMSR meeting, SPRC advised Indigrid to submit detailed report to SRLDC on the incident and action plan to avoid recurrence of the incident.

No representation from Indigird in the meeting was noted with concern.

14.6 Partial reporting of Telemetry

Persistent issues of completely not reporting and intermittent telemetry from certain RE entities are observed, leading to non-compliance with Regulation 11(1) of IEGC read with CERC Communication Regulations, 2017 and Regulation 6(3) of CEA Connectivity Standards. The matter is proposed to be taken up with the concerned RE entities for immediate resolution and ensuring full regulatory compliance.

- a) **Pavagada-** The real-time telemetry data from Pavagada is observed to be partially reporting at SRLDC, and data from all 8 pooling stations is highly intermittent. SRLDC has been regu-

larly notifying telemetry failures and intermittent data issues through monthly communications; however, despite multiple intimations shared with the KSPDCL team, the issues remain unresolved. A developer-wise summary of telemetry failures and intermittent data for April 2026 is provided in **Annexure-6**. It is also pertinent to note that the non-reporting of digital point telemetry from Pavagada is a long-pending issue. Early resolution from your end is required to ensure reliable data availability and regulatory compliance.

The data from ACMEB38 was completely not reported for past few months.

- b) **GRT Solar-** SRLDC has been regularly notifying of such telemetry failures and instances of intermittent data through monthly communications. However, despite repeated intimations, the issues continue to remain unresolved. The summary list (Telemetry Failure & Intermittent Data) for the month of April 26 is given below:

GRT JEWELLERS	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	48	0	47
Weather	18	0	18
INV/WTG	128	8	120

Note: Telemetry indicates the availability of Analog Data at the Control Centre.

1. **Telemetry Failure** – Non-Reporting Analog data for **≥ 98% of the time in a month**.
2. **Telemetry Intermittent** – Non-Reporting of Analog data for **5% to 90% of the time in a month**.

- c) **JSW-** SRLDC has been regularly notifying of such telemetry failures and instances of intermittent data through monthly communications. However, despite repeated intimations, the issues continue to remain unresolved for Mytrah, JSW-1, JSW-2 and JSW-3. Response received for Dharapuram stations. Summary list (Telemetry Failure & Intermittent Data) for the month of April 26 is given below:

MYTRAH	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	50	8	20
Weather	12	6	2
INV/WTG	499	448	37

DHARAPURAM	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	39	3	12
Weather	6	0	0
INV/WTG	168	0	0

DHARAPURAM2	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	62	6	20
Weather	6	0	1
INV/WTG	300	120*	180

JSWF1	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	60	3	7
Weather	9	0	0
INV/WTG	336	3	108

JSWF2	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	69	2	15
Weather	10	0	10
INV/WTG	366	0	159

JSWF3	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	33	0	3
Weather	5	0	5
INV/WTG	234	0	90

Note: Telemetry indicates the availability of Analog Data at the Control Centre.

1. **Telemetry Failure** – Non-Reporting Analog data for **≥ 98% of the time in a month**.

2. **Telemetry Intermittent** – Non-Reporting of Analog data for **5% to 90% of the time in a month**.

- d) **Renew Stations:** SRLDC has been regularly notifying of such telemetry failures and instances of intermittent data through monthly communications. However, despite repeated intimations, the issues continue to remain unresolved. The summary list (Telemetry Failure & Intermittent Data) for the month of April 26 is given below:

SURYA_OJHAS	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	249	40	5
Weather	18	0	7
INV/WTG	634	166	269

OSTRO WIND	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	72	3	14
Weather	9	0	9
INV/WTG	447	22	425

ROSHINI	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	67	5	1
Weather	12	0	6
INV/WTG	261	0	195

ROSHINI_2	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
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Pooling Station	79	31	47
Weather	9	3	6
INV/WTG	273	0	273

Note: Telemetry indicates the availability of Analog Data at the Control Centre.

1. **Telemetry Failure** – Non-Reporting Analog data for **≥ 98% of the time in a month**.
2. **Telemetry Intermittent** – Non-Reporting of Analog data for **5% to 90% of the time in a month**.

- e) **Spring Energy:** SRLDC has been regularly notifying of such telemetry failures and instances of intermittent data through monthly communications. However, despite repeated intimations, the issues continue to remain unresolved. The summary list (Telemetry Failure & Intermittent Data) for the month of April 26 is given below. It can be observed that complete data of Spring Solar, Pavagada was intermittent during Jan 2026.

SPRING SOLAR	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	24	0	10
Weather	24	0	0
INV/WTG	202	0	0

SPRING WIND	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	104	14	91
Weather	9	0	9
INV/WTG	348	0	348

Note: Telemetry indicates the availability of Analog Data at the Control Centre.

1. **Telemetry Failure** – Non-Reporting Analog data for **≥ 98% of the time in a month**.
2. **Telemetry Intermittent** – Non-Reporting of Analog data for **5% to 90% of the time in a month**.

- f) **APSPCL:** SRLDC has been regularly notifying of such telemetry failures and instances of intermittent data through monthly communications. However, despite repeated intimations, the issues continue to remain unresolved. **Real time data from ACME P1, AZURE SOLAR, FRV-2 Solar are not reporting for past 6 months.** The summary list (Telemetry Failure & Intermittent Data) for the month of April 26 is given below:

ACME BHIWADI(P6)	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	18	6	2
Weather	10	6	0
INV/WTG	40	23	0

ACME HISAR(P3)	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	18	4	14
Weather	10	5	5
INV/WTG	40	0	40

ACME KARNAL(P1)	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	18	16	0
Weather	10	10	0
INV/WTG	40	40	0

ADANI	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	10	0	0
Weather	7	1	0
INV/WTG	164	2	0

AZURE SOLAR	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	6	6	0
Weather	10	10	0
INV/WTG	74	74	0

FRV SOLAR 1	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	10	0	10
Weather	8	0	8
INV/WTG	40	0	40

NTPC Green	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	131	69	35
Weather	51	34	10
INV/WTG	468	288	80

TATA POWER_1	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	32	0	32
Weather	10	0	10
INV/WTG	100	0	100

TATA POWER_2	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	30	0	30
Weather	4	0	4
INV/WTG	100	0	100

FRV SOLAR 2	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
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Pooling Station	54	54	0
Weather	9	9	0
INV/WTG	0	0	0

GALIVIDU_12	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	52	4	11
Weather	0	0	0
INV/WTG	0	0	0

GALIVIDU_22	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	26	6	20
Weather	0	0	0
INV/WTG	0	0	0

GALIVIDU_32	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	45	19	26
Weather	0	0	0
INV/WTG	0	0	0

NPKUNTA_21	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	56	16	4
Weather	0	0	0
INV/WTG	0	0	0

NPKUNTA_22	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	52	3	38
Weather	0	0	0
INV/WTG	0	0	0

NPKUNTA_23	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	52	24	10
Weather	0	0	0
INV/WTG	0	0	0

NPKUNTA_42	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	36	0	12
Weather	0	0	0
INV/WTG	0	0	0

Note: Telemetry indicates the availability of Analog Data at the Control Centre.

1. **Telemetry Failure** – Non-Reporting Analog data for **≥ 98% of the time in a month**.
2. **Telemetry Intermittent** – Non-Reporting of Analog data for **5% to 90% of the time in a month**.

- g) **Greenko:** SRLDC has been regularly notifying of such telemetry failures and instances of intermittent data through monthly communications. However, despite repeated intimations, the issues continue to remain unresolved. The summary list (Telemetry Failure & Intermittent Data) for the month of April 26 is given below:

AMSLR	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	125	2	36
Weather	14	0	14
INV/WTG	460	2	458

GREENKO_SOLAR	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	117	18	26
Weather	14	0	0
INV/WTG	94	0	0

ORANGE_SIRONJ	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	39	6	0
Weather	14	12	0
INV/WTG	300	11	15

AMWND	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	60	0	1
Weather	9	0	0
INV/WTG	273	2	0

GRNKO	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	207	9	24

Note: Telemetry indicates the availability of Analog Data at the Control Centre.

1. **Telemetry Failure** – Non-Reporting Analog data for **≥ 98% of the time in a month**.
2. **Telemetry Intermittent** – Non-Reporting of Analog data for **5% to 90% of the time in a month**.

- h) **Ayana:** SRLDC has been regularly notifying of such telemetry failures and instances of intermittent data through monthly communications. However, despite repeated intimations, the issues continue to remain unresolved. The summary list (Telemetry Failure & Intermittent Data) for the month of April 26 is given below. Ayana Solar data was completely not reporting during April 26.

AYANA SOLAR	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	45	0	10
Weather	70	2	3
INV/WTG	160	0	0

AYANA_WIND	Total No of Analog points	Telemetry Failure	Telemetry Intermittent data
Pooling Station	66	0	2
Weather	9	0	6
INV/WTG	252	5	85

Note: Telemetry indicates the availability of Analog Data at the Control Centre.

1. **Telemetry Failure** – Non-Reporting Analog data for $\geq 98\%$ of the time in a month.
2. **Telemetry Intermittent** – Non-Reporting of Analog data for **5% to 90% of the time in a month.**

Deliberations

- a) **Pavagada-** SRLDC informed the forum that KSPDCL and associated developer data are highly intermittent. PARAM B28, ADYAH B6, ADYAH B13, ADYAH B10 data is completely not reporting. AVADA B4, AVADA B7, AVADA SLR B39, AVADA SLR B40A, ACME B38, ADYAH B1, ADYAH B2, ADYAH B3, FORTUM B20, FORTUM B5, FORTUM B9, FORTUM BNS B30, FORTUM BNS B31, KREDL B3, TATA B15, TATA B17, TATA B18, TATA B21, TATA B27, TATA B32, Yarrow B35, all KSPDCL pooling stations are intermittent.

KSPDCL informed that service engineer is visiting the site to resolve intermittent data to SRLDC. KSPDCL is taking the non-reporting of telemetry with SPDs as well. Fortum(Block 5, 9,20) informed that there are some issues in their SCADA and service engineer is visiting to resolve the issue. Tatapower informed they will revert on the issue.

- b) **GRT Solar-** SRLDC informed that 220kV pooling station data is highly intermittent. It is not reporting for past 2 weeks. Pooling station data is currently not reporting. GRT informed that non-reporting of inverter data is being taken up with OEM and it will be rectified with first week of July 2026. 220kV station data is reporting at site correctly, will coordinate for further checking with SRLDC.
- c) **JSW- Mytrah-** SRLDC informed that most of the turbines in Mytrah station is not reporting. JSW informed that there is major breakdown in feeder 1, 2, 3 and communication also failed along with that. JSW has taken up OEM for rectification and informed that same will be resolved within two weeks.
- JSW informed station F1, F2, F3 reply is shared through mail and data was not reporting because of planned maintenance during the month of May 2026. In Dharapuram, WTG is yet to be charged and the points under pooling stations are not reporting due to auxiliary transformers.
- d) **Renew Stations:** SRLDC informed that telemetry data is highly intermittent for Ostro wind, Roshini and Roshini 2 and Surya Ojhas. Renew informed that telemetry failure is rectified for OSTRO Wind and failure in Surya Ojas is due to disconnection of WTG communication. It will be rectified within 1 week.

- e) **Spring Energy:** SRLDC informed that Spring Wind has been highly intermittent for past 2-3 months. Spring informed that they will revert on the issue.
- f) **APSPCL:** SRLDC informed that ACME P1, FRV Solar 2, Azure Solar are completely not reporting. Npkunta PS2, FRV Solar-1, ACME P3, Tata power -1 and Tata power-2 are highly intermittent. FRV informed that there was some license issue in SCADA and data was not reporting due to that. The issue is resolved and data will be reporting since last 1 week. Athena informed that telemetry is through site upto APSPCL. SRLDC informed that real time is still not reporting to control centre and it is non-compliance of the regulations. SRLDC informed that Athena must take up with APSPCL to rectify the issue and ensure continuous data to SRLDC.
- g) **Greenko:** SRLDC informed that AMGEPL Solar is highly intermittent. Greenko informed that most of the points have been resolved. For Orange Sironj, a few points have been resolved following the resolution of the communication issue. There is failure in WMS system and expected resolution by OEM in August 2026.

14.7 Partial reporting of PMU

Gadag PMU-3 & 4 and Koppal PMU-3 are facing long-pending issues. SRLDC has been regularly notifying the concerned parties regarding these telemetry failures regular communications. Indigrid and GTL are requested to expedite the restoration process.

Deliberations

SRLDC presented the RE stations with poor PMU availability for last 30 days

Substation	Element connected	Availability (%)	Discussion
220kV Green Infra Kanakagiribad	Gadag	0	Non-availability of PMU data in real time due to communication interruption due to tower collapse. Site informed expected restoration by 26 th June 2026.
KLEIO CSS	AYANA	0	Kleio CSS belongs to Ayana. PMU not yet configured as the station is not yet ready
Ramagundam Solar	Bus 1	0	Site will revert back
OSTRO KAN-NADA	ICT-1	0	Site informed that there was a power supply issue, which has now been resolved. However, SRLDC reported that the PMUs are still unavailable. The site team informed that they will investigate further and revert with an update.
OSTRO KAN-NADA	Hiriyur	0	
220kV Vena Energy	Gadag	0	Non-availability of PMU data in real time due to communication interruption due to tower collapse Expected restoration by 26 th June 2026
Dharapuram 1	KARUR PG2	57.8	Communication interruption is observed. Site informed they are investigating and will resolve at the earliest.
Serentica Wind	Serentica PS(Koppal)	74.6	Site informed that there is technical issue in the PMU and it is being taken up with OEM. Expected resolution within 10 days.
Spring	Pugalur	84.3	No response
Spring	ICT-1	84.2	No response

DHARAPURAM 2	KARUR PG1	85	Communication interruption is observed. Site informed they are investigating and will resolve at the earliest.
CPSS(Greenko)	AMGEPL Solar	89.5	Site informed that GPS issue was resolved and there is a communication issue which is taken up with concerned.
ZENTARIS	Hiriyur	92.6	PMU is reporting now
TP Saurya	Koppal	94.3	Site informed they will revert back on interruption

SRLDC has been regularly notifying the concerned parties regarding these telemetry failures regular communications.

Conclusion

All RE stations were requested to investigate the issues and provide updates within a stipulated timeframe. SRLDC also informed the forum about the long-pending issues related to Gadag PMU-3, Gadag PMU-4, and Koppal PMU.

15. Other Points (SRLDC Agenda Items)

15.1 Faithful Declaration of Available Capacity

As per the SOR of DSM Regulations

(g) 'Available Capacity' for generating station based on wind or solar or hybrid of wind-solar resources, which are regional entities, is the cumulative capacity rating of wind turbines or solar inverters that are capable of generating power in a given time block;

The Commission is of the view that the definition already covers the aspect highlighted by the stakeholder in that the wind turbines or solar inverters that are capable of generating power in a given time block would need to be considered as available capacity. The Commission would like to reiterate the available capacity would be equal to the Installed Capacity, unless one or more turbines/inverters are under maintenance or shutdown. Any attempt at misdeclaration, that is, declaration of capacity when it is actually not available due to reasons of maintenance or shutdown, etc, would be treated as gaming and would be liable to action under appropriate provisions of the Act or the Regulations.

Deliberations

The Forum was sensitised to the importance of faithful and accurate declaration of Available Capacity by RE generating stations, in accordance with the provisions of the DSM Regulations and the clarification provided in the Statement of Reasons.

It was highlighted that the Available Capacity of a regional entity wind/solar/hybrid generating station is required to reflect the cumulative capacity of the wind turbines or solar inverters that are actually capable of generating power in the concerned time block. Accordingly, the Available Capacity would ordinarily be equal to the Installed Capacity, except where one or more turbines/inverters are under maintenance, shutdown or otherwise not capable of generating power.

The Forum emphasised that the declaration of Available Capacity has a direct bearing on forecasting, scheduling, DSM computation and commercial settlement. Therefore, RE generators need to ensure that the declared capacity faithfully represents the actual capability of the plant during each time block and is supported by appropriate operational records.

The RE entities were cautioned that any misdeclaration of Available Capacity, including declaration of capacity which is not actually available due to maintenance, shutdown or other known limitations, may be treated as gaming and could attract action under the applicable provisions of the Electricity Act and Regulations.

The Forum advised all RE entities to sensitise their concerned QCA, forecasting/scheduling teams and plant operators on the requirement and ensure proper coordination between the plant's actual availability and the capacity declared for scheduling purposes.

Conclusion / Action Point

All RE entities were requested to ensure faithful and time-block-wise declaration of Available Capacity based on the actual generating capability of the plant, duly considering outages, maintenance and shutdown of turbines/inverters. The entities were also advised to sensitise their concerned QCA and operational teams to ensure strict compliance and avoid any inadvertent or deliberate misdeclaration.

15.2 Submission of Self Audit Compliance Report as per provisions of IEGC 2023.

As per Clause 55 of IEGC 2023, the performance of all users, CTU, STUs, NLDC, RLDCs, SLDCs and RPCs, power exchanges, QCAs, SNAs with respect to compliance of these regulations shall be assessed periodically. IEGC mandates all entities to undertake self-audit and submit a report containing compliances, non-compliances (if any) along with sufficient information to understand how and why the non-compliance occurred, extent of damage caused by such non-compliance, steps and timeline planned to rectify the same, steps taken to mitigate any future recurrence etc., with regard to various regulations of IEGC to the respective nodal agency.

Further as per clause 56 (2) of IEGC, in order to ensure compliance, all users, CTU, STUs, NLDC, RLDCs, RPCs and SLDCs, power exchanges, QCAs, SNAs shall conduct annual self-audits to review compliance of these regulations and submit the reports by 31st July of every year. All users of the Southern Regional Load Despatch Centre (SRLDC) are required to submit their Self-Audit Report to SRLDC on an annual basis by 31st July.

16 Date & Venue/Mode of the 6th Meeting of SRPC RE Sub-Committee

The next meeting is proposed in the month of September-2026. The date and venue of the meeting will be intimated in due course.

17 Conclusion

Shri Asit Singh, Member Secretary, SRPC, observed that although there are presently no specific regulatory requirements mandating Renewable Energy developers to maintain Emergency Restoration System (ERS) facilities, the recurrence of transmission tower collapse incidents highlights the need for enhanced preparedness for restoration of critical evacuation infrastructure. Considering that several RE developers are located in the same geographical areas and may depend on common evacuation corridors, the RE developers may explore **joint procurement and shared utilisation of ERS facilities**, wherever feasible, to facilitate faster restoration during contingencies.

He further emphasised the importance of **timely submission, validation and periodic updating of dynamic models** by RE generators. Accurate and validated dynamic models are essential for reliable power system studies, grid security assessment, operational planning and effective assessment of the behaviour of inverter-based resources during system disturbances. Generators facing any technical or

procedural difficulties in complying with dynamic modelling requirements were advised to bring the same to the notice of CEA/SRPC for appropriate guidance and resolution.

He also stressed the importance of **continuous availability of good-quality weather telemetry and PMU data** from RE generating stations. Reliable weather data is essential for accurate forecasting and scheduling of renewable generation, while PMU data provides enhanced real-time visibility of grid conditions and supports assessment of system dynamics, stability and disturbances. The Forum was apprised of the communications issued by NLDC regarding compliance with the applicable CEA requirements in this regard, and all concerned entities were advised to ensure timely and complete compliance.

He further observed that, although the RE Sub-Committee meets on a quarterly basis, **stakeholders need not wait until the next meeting to bring important operational, technical or compliance-related issues to the Forum**. Any matter requiring attention may be brought to the notice of SRPC/SRLDC at any time. Depending on its nature and urgency, the matter may be examined and taken up with the appropriate forum, including higher-level forums, wherever necessary. He encouraged all stakeholders to adopt a **proactive approach to coordination and early resolution of issues**, in the larger interest of secure and reliable integration of renewable energy into the grid.

Shri V Govindraj, CGM, SRLDC, thanked all the participants for their active participation and valuable contributions during the meeting. He emphasised that timely and effective compliance with the applicable regulatory provisions, technical standards and operational requirements is fundamental to maintaining grid security, reliability and resilience. He also highlighted that any persistent non-compliance or deficiencies in protection, communication, telemetry, forecasting or grid-supporting capabilities could have implications for secure grid operation, particularly with increasing RE penetration.

He further noted that India has set an ambitious target of achieving 500 GW of installed non-fossil fuel capacity by 2030. In this context, the integration of large-scale renewable generation will require not only rapid capacity addition but also greater preparedness in terms of forecasting, scheduling, system visibility, dynamic performance, protection, communication and grid-supporting capabilities.

He emphasised that all stakeholders, particularly RE developers, need to proactively adapt to the evolving requirements of the power system, anticipate emerging operational challenges and take timely corrective measures rather than waiting for issues to be highlighted during grid events or subsequent meetings. He expressed confidence that through continued coordination among RE developers, SLDCs, SRLDC, SRPC and other stakeholders, the Southern Region would be well positioned to securely and reliably accommodate the rapidly increasing share of renewable energy.

Superintending Engineer (O), SRPC thanked all the participants for their active participation and constructive deliberations during the meeting. She expressed the hope that all the participating entities would **take due note of the deliberations and recommendations of the Forum and extend their full cooperation in implementing the agreed action points within the stipulated timelines**. She emphasised that timely compliance and coordinated follow-up by all stakeholders would contribute significantly to the secure, reliable and smooth integration of renewable energy into the grid.
