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सं/No.SRPC/SE (PC&SS)/147PCSC/2026/ 4930-976 **दिनांक /Date 23rd October 2026**

To,

संलग्न सूची के अनुसार
As per attached List

विषय: 05 अक्टूबर, 2026 को महाबलीपुरम, तमिलनाडु में आयोजित प्रोटेक्शन कोऑर्डिनेशन सब-कमेटी (PCSC-147) की 147वीं बैठक का कार्यवृत्त।

Sub: Minutes of the 147th Meeting of Protection Coordination Sub-Committee (PCSC-147) held on 05th October, 2026 at Mahabalipuram, Tamilnadu.

महोदय/महोदया/ Sir/ Madam,

सूचित किया जाता है कि 05 अक्टूबर, 2026 को आयोजित PCSC की 147वीं बैठक का कार्यवृत्त (Minutes) SRPC की वेबसाइट (srpc.gov.in) पर अपलोड कर दिया गया है। सभी संबंधित पक्षों से अनुरोध है कि वे PCSC-147 की उन सिफारिशों के संबंध में उचित कार्रवाई करें, जो उन पर लागू होती हैं।

It is informed that **Minutes of the 147th Meeting of PCSC** held on **05th October, 2026** have been uploaded on the SRPC Website (srpc.gov.in). All Constituents are requested to kindly take suitable action w.r.t. **PCSC-147** recommendations as applicable to them.

भवदीय/Yours faithfully,

धन्यवाद / Thanking You,

malini 23/10/2026

(एन एस मालिनी/N S MALINI)
अधीक्षक अभियंता (पी & सी)/ Superintending Engineer (P&C)

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25. जीएम (प्रचावअनु) दक्षे-II, पावरग्रिड, बेंगलूर GM (O&M), SR-II, PGCIL, Bengaluru
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SOUTHERN REGIONAL POWER COMMITTEE

BENGALURU

Minutes for the 147th Meeting of Protection Coordination Sub- Committee of SRPC held on 05.10.2026 at Mahabalipuram, Tamilnadu.

1. Introduction

The 147th Meeting of the Protection Coordination Sub-Committee of SRPC was held on 05th October 2026 at 09:00 AM **at Mahabalipuram, Tamilnadu**.

Shri A K Raza, CEO, NTECL extended a warm welcome to all participants to the 147th Protection Coordination Sub-Committee (PCSC) Meeting. He welcomed Shri Asit Singh, Member Secretary, SRPC; Shri T Srinivas, Executive Director, SRLDC; Smt Malini N S, Superintending Engineer, SRPC; Shri M Mahesh, Chief Engineer, KPCL; and all committee members and distinguished participants.

He expressed his pleasure in welcoming the participants to the historic coastal town of Mahabalipuram for the meeting, hosted by NTPC Tamil Nadu Energy Company Limited (NTECL).

Highlighting the importance of reliable and secure grid operation, he observed that ensuring the reliability, security and stability of the power grid was not merely a technical requirement but also a fundamental prerequisite for sustainable national development. He emphasized that achieving these objectives required not only modern infrastructure but also a collaborative approach in which the experience, technical expertise and lessons learned across utilities and regions were effectively shared.

He noted that the participation of members reflected their collective commitment to strengthening coordination, adopting advanced protection practices and proactively addressing the challenges arising from the rapidly evolving power sector.

On behalf of NTECL, he assured the participants of the organisation's commitment to facilitating productive deliberations and constructive exchanges of technical knowledge. He also expressed appreciation for the time, effort and valuable expertise contributed by all participants.

Concluding his remarks, he wished the meeting success and expressed hope that the deliberations would lead to constructive outcomes for enhancing the security and reliability of the power system. He also encouraged the participants to experience the rich cultural heritage and scenic coastal surroundings of Mahabalipuram during their stay.

Shri Asit Singh, Member Secretary, SRPC extended a warm welcome to all the participants to the 147th Protection Coordination Sub-Committee (PCSC) Meeting.

He thanked Shri A K Raza, CEO, NTECL, for agreeing to host the meeting and welcomed Shri B K Saha, GM (O&M), NTECL; Shri B K Pandey, AGM, NTECL; Shri Rama ~~Amar~~

Rao, AGM (OS), NTPC Headquarters; Shri M Mahesh, Chief Engineer, KPCL, KPCL; and other dignitaries.

He appreciated the excellent arrangements made by the NTECL team for the meeting and the stay of the participants. The efforts of the organizing team, comprising Shri D K Marghade, DGM (EMD); Shri Jaideep, DGM (C&M); Shri Subhakar Budupula, DGM (EEMG); Shri Gopi S, DGM (HR); and Smt Anupama R, Senior Manager (EMD), in coordinating the venue and other arrangements were acknowledged.

Highlighting NTPC's growth and diversification, he noted that NTPC had achieved an installed generation capacity of approximately 91 GW and had made significant progress in the renewable energy sector. Around 57% of the capacity added by NTPC during the previous year was from renewable energy sources, with the balance contributed by thermal generation. NTPC was also progressing with Battery Energy Storage System (BESS) projects, including plans for establishing such facilities at various stations, including NTECL.

Sharing his association with NTECL, he recalled that, during his posting at the Inspectorate Office in Chennai, he had undertaken several inspections at the station during its commissioning. He also recalled his frequent visits along the East Coast Road for inspection-related work in Puducherry, which was under the Central Sector for Electrical Inspection purposes and where inspections are to be carried out by CEA.

He informed that Upper Bhavani in Tamil Nadu had been identified for development as a joint-venture pumped storage project (PSP) involving NTECL. He expressed hope that the project would progress expeditiously, considering its importance to the power system, and appreciated NTECL's leading role in pumped storage development.

Referring to NTECL's operating experience, he highlighted the challenges associated with generating units and power evacuation, particularly due to the difficult terrain and the adverse effects of coastal conditions and pollution on transmission lines. The insulator replacement work undertaken by POWERGRID and the coordination with TANTRANSCO on several occasions to maintain the health of the transmission line between NTECL and North Chennai were noted.

He particularly appreciated NTECL's resilience and ability to restore operations following disturbances. Recalling that the station had experienced three cyclones, he observed that NTECL had successfully managed/restored operations during/after such events. During flooding, the station had continued supplying power to the Southern Region and the Tamil Nadu grid. The dedication of personnel who travelled by boat between the township and the plant to attend their shifts during severe flooding was highlighted as an example of their commitment to maintaining uninterrupted plant operations under challenging conditions. He thanked NTECL for its continued support to the grid and expressed hope for its continued contribution in the future.

Cybersecurity Initiatives

Providing updates on recent developments, he informed that the Regional Cybersecurity Coordination Forum for Grid Operations was progressing well. The 11th meeting of the forum was held on 28 September 2026, with support from Grid-India, under the leadership of the Executive Director, SRLDC, as Chairperson of the Committee.

He also referred to cybersecurity coordination initiatives in the thermal generation sector, wherein NTPC was playing a leading role. All thermal generating companies represented at the meeting were requested to nominate suitable personnel from stations and HQ to participate in these initiatives.

It was noted that POWERGRID was leading the regional cybersecurity forum for the transmission sector, CERT-TRANS. NHPC had also initiated a regional cybersecurity forum for hydroelectric generating stations. Considering NHPC's limited presence in the Southern Region, TGGENCO had been nominated as the nodal officer for the Southern Regional Hydro Cybersecurity Forum. TGGENCO was requested to initiate the necessary process, constitute the committee and coordinate further cybersecurity-related activities.

Initiatives were also underway to establish a cybersecurity forum for the renewable energy sector. These developments were highlighted as important outcomes of the coordination and deliberations held under SRPC forums.

Protection System Analysis and Transmission Planning

Referring to a recent PSAG meeting held at the 400 kV PGCIL Mysuru Substation following a major disturbance involving more than 800 MW, he informed that protection settings had been reviewed as part of the disturbance analysis. However, the findings indicated that the issues were not necessarily attributable solely to protection settings, as transmission system limitations and deficiencies also contributed to such disturbances.

He observed that the forum served as an important feedback mechanism for transmission planners and agencies involved in planning new transmission systems. At several locations, facilities such as double-busbar arrangements and auto-reclosing schemes were not available. Further, transmission constraints required certain portions of the network to operate in radial mode, under which a single line outage could result in loss of supply to downstream areas.

The need to address these limitations through appropriate system strengthening and transmission planning was emphasized. Continued feedback to the concerned planning agencies was considered essential to ensure that the identified deficiencies were taken into account in future system development.

Other Important Meetings and Developments

The following developments and meetings were highlighted:

1. **Reverse power flow through the Raigarh–Pugalur HVDC link:** A meeting of the PSPA Division, CEA, was held to discuss the measures required to achieve reverse power flow of 6,000 MW through the Raigarh–Pugalur HVDC link.
2. **Start-up power for Kudankulam Nuclear Power Plant Units 3 and 4:** The start-up power requirements of Units 3 and 4 were discussed, including the commercial mechanism for arranging start-up power and subsequently making the units available to serve the Southern Region constituents.
3. **CMETS meeting:** The second sitting of the CMETS meeting was held on 16th September 2026.
4. **18th NPC meeting:** The 18th NPC meeting was held at Rajgir, Bihar, on 18th September 2026. It was informed that the relevant matters would be taken up in the respective forums after issuance of the meeting minutes.

5. **Joint site visit to Hosur and Somanahalli substations:** CTUIL arranged a joint site visit to the Hosur and Somanahalli substations on 17th and 18th September 2026 to examine space constraints and identify options for accommodating new line terminations and additional interconnecting transformers (ICTs).
6. **Review of thermal generating unit outages:** The Chairperson, CEA, convened a meeting to review forced outages and planned or partial outages of thermal generating units.
7. **Kaiga generating station evacuation issues:** A meeting was held by the PSPA Division, CEA, on 25th September 2026 to discuss evacuation issues associated with Kaiga Generating Station.

Generation Availability and Demand Situation

Referring to the prevailing demand situation, MS, SRPC observed that the Southern Region continued to experience high demand, with limited respite expected during the ongoing period. Several States and the Southern Region as a whole had recorded maximum demand levels. Reservoir storage was also significantly lower than in the previous year, with levels below 50% of capacity in certain cases.

In view of the limited availability of hydro generation, the full support of thermal generating stations would be required through June 2027. The need to ensure maximum availability of thermal generating units was therefore emphasized.

Regulatory Developments

Two important draft regulatory amendments had been issued for stakeholder comments:

1. **CEA Construction of Electric Plants and Electric Lines (Second Amendment):** All concerned entities were requested to examine the draft amendment and submit their comments.
2. **Indian Electricity Grid Code (IEGC) Second Amendment:** The deadline for submission of comments was 21st October 2026. Entities were requested to examine the proposed amendments and submit their comments, particularly on provisions relating to trial-run operation and declaration of the Commercial Operation Date (COD), USD etc.

All constituents were requested to examine the draft amendments carefully and submit their feedback within the stipulated timelines.

He further informed that the Ministry of Power had issued directions under Section 11 of the Electricity Act to captive generating plants across the country to make power available up to October 2026. The directions could be extended depending on the prevailing situation. The objective was to improve generation availability by requiring captive power plants to offer their power through power exchanges to help meet the increased demand.

Forthcoming Events

The following forthcoming events were highlighted:

- The 2nd meeting of the 21st Electric Power Survey Committee is scheduled to be held on 07.10. 2026 at 10:00 AM under the chairmanship of the Chairperson, CEA. The meeting will be held at the NRPC Conference Hall, NRPC Building, Katwaria Sarai, New Delhi.

- CEA, A two-day brainstorming event on "*Making Indian Power Sector AI Enabled*" is being organized by the Central Electricity Authority (CEA) in association with CBIP on 14th –15th October 2026 at Manekshaw Centre, Parade Road, New Delhi.
- CIGRE has requested nominations for the National Conference on "Women in Energy: Leading Change, Powering the Future," scheduled to be held on 16th October 2026 at YASHOBHOOMI (IICC), Sector 25, Dwarka, New Delhi.

Concluding his remarks, he expressed hope that the meeting would facilitate detailed deliberations on the issues raised, enable the identification of practical solutions and, most importantly, ensure effective implementation of the agreed remedial measures. He once again thanked the NTECL team for the excellent arrangements and hospitality extended to the participants.

Shri T Srinivas, Executive Director, SRLDC extended a warm welcome to all participants to the 147th Protection Coordination Sub-Committee (PCSC) Meeting. He appreciated NTECL for making excellent arrangements for the meeting at Mahabalipuram, a place of historical significance, and expressed hope that the deliberations would be productive and lead to meaningful outcomes in addressing the challenges associated with power system protection.

Referring to the exceptionally high power demand experienced during August and September 2026, he highlighted the additional challenges faced by the Southern Region due to the monsoon and inadequate rainfall, which had adversely affected reservoir levels, with storage in certain reservoirs falling below 50% of capacity. Andhra Pradesh, Telangana and Karnataka had recorded exceptionally high demand levels during this period.

He observed that the increasing demand, particularly during peak hours, had placed additional stress on grid operation, with grid frequency falling to as low as 49.41 Hz. Such operating conditions underscored the need to ensure that grid defence mechanisms and protection systems were appropriately designed, correctly implemented and properly maintained to function effectively under stressed grid conditions.

It was noted that SRLDC and SRPC had been making continuous efforts to ensure compliance with the applicable regulations and the protection settings recommended by SRPC and NPC. However, implementation of the prescribed settings at the field level remained an area of concern. The need for continued follow-up with the constituents to ensure the correct implementation and maintenance of protection settings was emphasized. While appreciating the efforts made by the constituents, he observed that considerable scope remained for further improvement, with the common objective of ensuring secure, reliable and properly protected grid operation.

Emphasizing the responsibility of protection engineers, he highlighted the need to establish robust systems and procedures that would ensure the reliable operation of critical protection systems without excessive dependence on individual personnel or temporary arrangements. The potential of numerical relays and programmable protection devices for automation was highlighted, and the need to make effective use of these capabilities to enhance system

reliability was stressed. He further emphasized that preventive maintenance and other prescribed maintenance activities should be carried out periodically to ensure the proper functioning of protection systems.

Referring to the grid events reported during the preceding month, he informed that approximately eight Grid Disturbances (GDs) and one Grid Incident (GI) had been reported. These events highlighted the need for continued improvement in protection practices. He noted that SRPC had been conducting meetings with SRLDC, including field-level interactions, to facilitate the exchange of practical experience and improve the implementation of protection practices. Good practices adopted by individual States and utilities should be identified and replicated across the Southern Region, wherever applicable.

The following technical issues were highlighted for focused attention:

1. **220 kV busbar protection:** The performance of busbar protection at the 220 kV level required examination in view of the deficiencies and operational issues observed.
2. **400 kV auto-reclosing schemes:** The performance and settings of auto-reclosing schemes at the 400 kV level required review.
3. **Overcurrent relay settings:** The settings of overcurrent relays needed to be reviewed wherever necessary. It was emphasized that protection settings should be appropriately coordinated and should not be excessively conservative, as unsuitable settings could adversely affect system operation, particularly under stressed grid conditions.

He stressed that the technical expertise and practical experience of protection engineers should be effectively utilized to optimize protection systems within the available resources while addressing increasing demand and evolving grid operating conditions.

He informed that SRLDC would take up these issues during the subsequent technical discussions, explain the operational problems being experienced and propose suitable solutions. The deliberations were expected to focus not only on identifying the causes of the issues but also on finalizing appropriate remedial measures to prevent their recurrence and identifying good practices for adoption across the Southern Region.

Concluding his remarks, he thanked NTECL, Vallur, for providing an excellent venue and making the necessary arrangements for the meeting. He appreciated the hospitality and accommodation arrangements and acknowledged the efforts made by NTECL to provide a conducive environment for productive deliberations.

Smt Malini N S, Superintending Engineer (P & C), SRPC extended a warm welcome to all participants to the 147th Protection Coordination Sub-Committee (PCSC) Meeting on behalf of SRPC. She thanked NTECL for hosting the meeting at Mahabalipuram and appreciated the opportunity for participants to interact in person.

She observed that, while online meetings offered convenience and enabled discussions at short notice, physical meetings facilitated more open discussions, better interaction and a clearer understanding of the concerns of various constituents. She emphasized that such

meetings helped strengthen professional relationships and mutual understanding, which were equally important for the smooth and secure operation of the grid. She also noted that this was her first physical PCSC meeting since assuming charge as Superintending Engineer (Protection), making the occasion particularly significant.

Referring to the agenda, she informed that eight Grid Disturbances (GDs) and one Grid Incident (GI) were scheduled for deliberation. Although the number of cases was relatively lower than in the preceding months, she emphasized that every disturbance provided an opportunity to identify the underlying causes, assess whether the protection systems had operated as intended and determine the corrective measures required to prevent recurrence. The objective, she observed, should not be limited to concluding the cases but should also include deriving lessons and ensuring effective implementation of remedial actions.

Regarding pending nominations for the islanding schemes, it was informed that nominations from TNPGCL and Adani-ATL were yet to be received. The concerned entities were requested to furnish the nominations at the earliest.

Three additional agenda items proposed by SRLDC were highlighted for focused deliberation.

1. AUFR and df/dt Protection Database

It was informed that multiple operations of the Automatic Under-Frequency Relay (AUFR) and rate-of-change-of-frequency (df/dt) protection had been observed during September 2026. Accordingly, SRLDC was preparing a consolidated master database covering the relevant feeders, relay details, protection settings and their association with islanding schemes.

All concerned utilities were requested to verify and update the database and furnish the required feeder-wise details of protection operations to facilitate prompt and accurate analysis of future events.

2. Implementation of 49.5 Hz Under-Frequency Protection for State-Owned Pumped Storage Plants

The need to implement 49.5 Hz under-frequency protection for state-owned pumped storage plants (PSPs) operating in pumping mode was highlighted. Such plants were required to trip automatically at 49.5 Hz, ahead of the first-stage under-frequency relay (UFR) operation.

It was noted that the prescribed setting was yet to be implemented in the concerned PSPs of TGGENCO and TNGECL. In view of the event on 22nd September 2026, when grid frequency fell to 49.45 Hz while pumping operation continued, the concerned utilities were requested to accord priority to the implementation of the protection and expedite the same. Confirmation of implementation was also requested to be furnished to SRPC/SRLDC.

3. Cybersecurity Coordination for the Hydro Sector

It was informed that TGGENCO had been nominated as the Convener of the Southern Regional Cybersecurity Coordination Forum for the Hydro Sector. TGGENCO was requested to initiate the formation of the Southern Regional CERT-Hydro and provide an update on the status of the Regional Cybersecurity Coordination Forum.

Emphasizing the importance of cybersecurity in the power sector, she observed that, with the increasing digitalization of power-system infrastructure, cybersecurity had become an integral component of overall power-system security.

Concluding her remarks, she observed that the meeting had a focused agenda and expressed hope that the relatively lower number of cases would enable efficient and decisive deliberations. The participants were encouraged to discuss the issues thoroughly, arrive at clear conclusions and identify specific action points and timelines wherever required.

She also encouraged the participants to experience the historical and cultural significance of Mahabalipuram, recalling the monuments left behind by the Pallava dynasty, which had stood for more than a thousand years.

Emphasizing the importance of collective responsibility, she observed that, beyond individual designations, organizations and responsibilities, all participants were part of the same power-system community, working towards the common objective of ensuring a secure, reliable and resilient grid. She expressed hope that the meeting would facilitate productive deliberations, meaningful technical discussions, constructive exchange of views and timely resolution of issues.

She once again welcomed all participants and conveyed her sincere appreciation to NTECL for hosting the meeting and extending its hospitality. She wished the participants a fruitful meeting and a pleasant stay at Mahabalipuram.

The agenda items were taken up for deliberations.

2. Confirmation of Minutes of last PCSC meeting

Minutes of 146th Protection Coordination Sub-Committee meeting held on 07th September 2026 was issued vide letter No: SRPC/SE (P, C & SS)/146PCSC/2026/4609-4685 dated 28th September 2026.

Minutes of the 146th Meeting of Protection Coordination Sub-Committee were confirmed

3. Grid Occurrences

Grid Occurrences which took place during the period **August 2026 – September 2026,** given at **Annexure-3a**, would be discussed in the meeting.

I. The Grid Disturbances (GDs) [Draft Analysis Reports furnished by SRLDC are at Annexure-3b]:

Name of the Utility who would present the GD in all its details	SN of the GD as per Annexure-3a
APTRANSCO / APGENCO	I.1
TANTRANSCO	I.2
APGENCO	I.3
TANTRANSCO / TNPGCL	I.4
APTRANSCO	I.5, I.6
KPTCL	I.7
KPCL / KPTCL	I.8

II. The Grid Incidences (GIs) [Draft Analysis Reports furnished by SRLDC are at Annexure-3b]:

Name of the Utility who would present the GI in all its details	SN of the GI as per Annexure-3a
KPCL	II.1

III. Single/ Multiple Element tripping:

Name of the Utility who would present the GI in all its details	SN of the Single /Multiple tripping as per Annexure-3a
PVG IRCON S	III.1
PGCIL SR-1	III.2, III.18, III.24
KPTCL	III.3, III.6, III.10, III.14, III.20, III.22
TANTRANSCO	III.4, III.7, III.8, III.11, III.12, III.13
MEPL	III.5
TGTRANSCO	III.9, III.15
GREENKO	III.16, III.17, III.21
PGCIL SR-2	III.19
APTRANSCO	III.23

a) All the Utilities, as listed above, to give a presentation (for not more than 10 minutes per GD; for not more than 5 minutes per GI and Single/ Multiple Trippings) for the Events mentioned against them.

b) The presentation shall cover all pertinent aspects such as Antecedent conditions, Bus-configuration, Reasons of GD/ GI occurrence, Relevant Diagrams showing location of the

fault, Bus bar arrangement/configuration of feeders and other connected equipment with proper CB positions (OPEN/ CLOSE) at the time of occurrence of the fault, Type of protections operated, Substantiation of the protections operated by relevant DRs & ELs, Reasons for protection systems mal-operation/non-operation, Remedial measures taken/ proposed, etc.

c) Constituents shall furnish the following details to SRPC by ***01.10.2026*** (in **WORD** format) in respect of all the above grid occurrences (GD, GI) to have fruitful discussions:

(i) Detailed analysis of the events

(ii) SLD or equivalent pictorial representation clearly showing:

a. Location of fault with distance
b. Fault details with type &relay indications
c. CT/PT/CVT rating details with location
d. Bus-bar arrangement/ Configuration of feeders
e. CB positions (OPEN/ CLOSE) at the time of fault
f. Isolator & Earth-switch positions (OPEN/CLOSE)
g. Voltage, frequency & power flows with direction at the time of fault

(iii) Output of Event logger & Disturbance recorder

(iv) Remedial Action(s) taken

(v) Relay setting details

IV. W.r.t. Failure or Non-operation of A/R events included at Item No. IV of Annexure-3a, PLCC mal-operation events included at Item No. V of Annexure-3a and DR Time Synchronization Issues related Events included at Item No. VI of Annexure-3a, the concerned Utilities, as listed below, shall furnish the reasons for the same, along with remedial action taken, to SRPC latest by *01.10.2026* so that the same may be closed. Else, the same shall be presented by respective Utilities in the meeting:

A/R related Events:

Name of the Utility who would present the A/R Event in all its details, if not furnished beforehand	SN as per Annexure-3a
TGTRANSCO	IV.1, IV.2, IV.6, IV.12
HINDUJA	IV.3
APGENCO	IV.4, IV.9, IV.10, IV.14
APTRANSCO	IV.5, IV.13
KPTCL	IV.7
NTPL	IV.8
APSPCL	IV.11

PLCC related Events:

Name of the Utility who would present the PLCC Event in all its details, if not furnished beforehand	SN as per Annexure-3a
TGTRANSCO	V.1

DR Time Synchronization Issues related Events:

Name of the Utility who would present the DR Time synchronization Event in all its details, if not furnished beforehand	SN as per Annexure-3a
KPTCL	VI.1, VI.5, VI.10, VI.17, VI.18, VI.21
KSEBL	VI.2
NTPC RSTPS	VI.3
TGTRANSCO	VI.4
TANTRANSCO	VI.6, VI.7, VI.8, VI.9, VI.12, VI.14, VI.22, VI.29
NLC	VI.11
TNPGCL	VI.13, VI.15, VI.16, VI.19
KPCL	VI.20
PGCIL SR-1	VI.23, VI.24, VI.27
GREENKO	VI.25
PGCIL SR-2	VI.26
APSPCL	VI.28

V. ***SRLDC to furnish the PMU plots for all the above Grid Occurrences (GDs, GIs, Single/Multiple Element Trippings, A/R, PLCC Events) with delayed fault clearance to SRPC Secretariat by 01.10.2026.***

Deliberations:

1. Grid Disturbances (GDs) and Grid Incidents (GIs) occurred during August 2026 – September 2026 were discussed and analysed in detail by the PCSC forum. Respective utilities presented the tripping details and analysis of the events. The final detailed report and recommendations of the above GDs & GIs is at **Annexure-3c**.
2. Single/ Multiple element trippings, Auto Recloser events, PLCC events and DR time synchronization issues were also deliberated/ analysed in the meeting. Respective utilities presented the tripping details and analysis of the events. The detailed analysis/report and recommendations of the above events is at **Annexure– 3d**.
3. All concerned were requested to take note of the analysis of the grid occurrences and recommendations of the PCSC forum and ensure needful action.
4. The forum resolved that the recommendations finalized by the PCSC (P-Rec) in the meetings shall be complied by the respective entities in time bound manner. The compliance/action plan with timelines shall be updated in the P-Rec module of PMS portal. The status of these recommendations would be reviewed in the ensuing PCSC meetings.
5. SRPC requested the entities concerned to furnish the draft report of the tripping/ event without fail. SRLDC to take up with the entities through e-mail, if the draft report is not received. Copy of the same to be marked to SRPC.
6. It was noted that SRLDC shall make changes, if any, or modify draft analysis report of the respective event based on the detailed report furnished by the user(s) and

furnish the same to SRPC for incorporating in the final analysis report of Grid Occurrences, to issue along with the Minutes of the PCSC meetings

4. Status of Implementation of Pending Recommendations of PCSC

a) The status of implementation of PCSC recommendations (**up to 146th PCSC meeting**), have been updated in P-REC Module in PMS suite. List of pending recommendations is at **Annexure-4a**.

b) The latest status on the same may please be sent by ***01.10.2026,*** to place the same before the sub-committee.

c) PCSC had earlier decided to review the status of implementation of the recommendations on the Grid occurrences that were finalized in the previous three PCSC meeting. Hence the recommendations finalized in the 144th to 146th PCSC meeting would be deliberated in the meeting. Details are at **Annexure -4b**.

Deliberations:

Forum noted that many entities were not furnishing the updates through P-REC Module. All entities were requested to furnish the status of PCSC recommendations through P-REC module in PMS suite. SRPC stressed the need to update the status of all recommendations in the Module. It was also informed that if any entity faces difficulties/issues in uploading the status in the module, the same should be intimated in order to take up the matter with M/s PRDC for appropriate resolution.

Recommendation:

- ***All the entities to implement the pending PCSC Recommendations at the earliest and furnish the compliance/ status of implementation & action plan/ timelines for implementation of the recommendations through "P-REC Module" in PMS.***

5. Outage Planning of Protection systems/relays

1. In the 114th PCSC Meeting held on 05.01.2024, the following were noted: The Regulation *32(2)(d)* of CERC (Indian Electricity Grid Code) Regulations 2023, regarding protection systems related outages, stipulates as below:

Quote

"Protection relay related outages, auto reclosure outages and SPS testing outages shall be planned on a monthly basis with the prior permission of the concerned RPC, which shall consult the concerned RLDC & NLDC"

Unquote

2. To comply with the above, it was decided that all entities shall furnish the planned/ annual relay & protection system outage proposals in advance to the forum for approval of the same.
3. The entities are requested to furnish the details in the following format for the scheduled/planned protection systems related outages during the period from 10.10.2026 to 09.11.2026 for approval of PCSC:

S. No	Name of Requesting Agency	Element Name	Voltage level	Relay details	Owner	Reason for the Outage	Outage proposed from	Outage proposed to	Remarks

1	NPCIL-MAPS	MAPS–230 kV Transmission Line SP-Koil-1	230kV	Main-II protection relay: P437, M/s Areva make	NPCIL-MAPS	Relay proposed to be replaced with alternate model P444, M/s Schneider make, as P437 is not supported by OEM.	23.10.2026	24.10.2026	

4. The entities are requested to furnish the details in the following format for the scheduled/planned protection systems related outages during the period from 10.10.2026 to 09.11.2026 for approval of PCSC:

Deliberations:

1. NPCIL-MAPS informed that the Main-II protection relay, P437 (M/s Areva make), installed for the MAPS–SP Koil Line-1, was proposed to be replaced with the alternate model P444 (M/s Schneider make), as the existing P437 relay was no longer supported by the OEM. It was further informed that the replacement would be carried out during the line outage period.

2. SRLDC conveyed its agreement to the proposed relay replacement outage, as the work was planned to be undertaken during the line outage period. Accordingly, the forum approved the relay replacement outage proposal of NPCIL-MAPS.

3. SRPC highlighted that TANTRANSCO, vide email dated 30th September 2026, had informed that an emergency outage was availed for the 400 kV busbar protection relay at Karaimudi Substation, following the failure of the GE make B-phase busbar protection relay due to a "BAD application CRC" error.

4. SRPC emphasized that the prescribed Standard Operating Procedure (SOP) for busbar relay outages should be strictly followed in all cases involving busbar protection relay outages.

Recommendation:

All entities to furnish the planned/ annual relay & protection system outage proposals, in the above format, in advance to the forum for approval of the same.

6. Proposals of Protection Relay Settings

a) As per the Protection Protocol of Southern Region prepared in compliance with the IEGC Regulations 2023, for voltage levels 400kV & above and interstate lines, entities shall submit the protection settings in advance to SRPC/SRLDC for every new element to be commissioned. The Protection Co-ordination Sub-Committee (PCSC) of SRPC shall review the settings to ensure that they are properly coordinated with adjacent system and comply with the existing guidelines. Also any change in the existing protection settings of the elements, for voltage levels 400kV and above & interstate lines, shall be carried out only after prior approval from the SRPC.

b) As decided in the 112th PCSC Meeting held on 06.11.2023, a Protection Setting Sub-Group (PSSG) was constituted with the members from APTRANSCO, KPTCL, KSEBL, TANTRANSCO, TGTRANSCO, PGCIL SR-I & SR-II, NTPC, SRLDC & SRPC Secretariat. PSSG shall analyse/review the proposed protection settings for new power

system elements & revision of settings for existing elements proposed by the entities and shall suggest/recommend the finalized settings to the respective entity. The recommended settings shall be put up to PCSC, in monthly PCSC meetings, for ratification.

c) Following proposals have been received by the PSSG. Proposed relay settings have been circulated among PSSG members through e-mail. The same were reviewed/assessed by PSSG and recommended the protection settings with following observations/suggestions:

<table>
<tr><th colspan="4">PSSG
Meeting / Group deliberations</th></tr>
<tr><th>S No.</th><th>Proposal</th><th>Proposed Entity</th><th>Meeting Date</th></tr>
<tr><td>1</td><td>SRPC approval for commissioning of Koppal (Gadag Power & VEH Power) & Gadag(Hexaclimate) 220kV Lines Settings</td><td>PGCIL-II</td><td>24.08.2026 to 28.08.2026</td></tr>
<tr><td colspan="4">Observations/Views Received:

PSSG in the group chat held from 24.08.2026 to 28.08.2026 has analysed the proposed settings furnished by PGCIL SR-II and concluded that it may implement in compliance with the SR Protection Protocol with following recommendations

Observations on 220kV GADAG II (PGCIL) - HEXACLIMATE

PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 220kV GADAG II (PGCIL) End
PSSG had recommended the following:
1. Time of SOTF function active status after breaker closed in impedance mode may be set to 0.2s.
2. Mutual compensation shall be disabled for single circuit line.
3. Communication scheme shall be enabled with POR Scheme.

Observations on 220kV KOPPAL II (PGCIL) - GADAG POWER
PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 220kV KOPPAL II (PGCIL) End
PSSG had recommended the following:
1. Time of SOTF function active status after breaker closed in impedance mode may be set to 0.2s.

Observations on 220kV KOPPAL II (PGCIL) - VEH POWER
PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 220kV KOPPAL II (PGCIL) End
PSSG had recommended the following:
1. Time of SOTF function active status after breaker closed in impedance mode may be set to 0.2s.</td></tr>
<tr><td>2</td><td>Consent for settings of ICT-5 at NP Kunta SS and Chitravathi PSP lines (Adani) at Kurnool-III PS-Reg</td><td>PGCIL-I</td><td>28.08.2026</td></tr>
<tr><td colspan="4">Observations/Views Received:
PSSG in the group chat held on 28.08.2026 has analysed the proposed settings furnished by PGCIL SR-I and concluded that it may implement in compliance with the SR Protection Protocol with following recommendations</td></tr>
</table>

Observations on 400kV Kurnool-3 - Chitravathi PSP at 400kV Kurnool-3 End

PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 400kV Kurnool-3 End

PSSG had recommended the following:

1. Over Voltage St-2 settings has been implemented at 150% 100ms in both relays, the excel says 140%, the same may be clarified and be modified to 140%,100ms. Adopt OVR protection settings in accordance with SRPC Approved OVR grading.
2. Two high tension (HT) supplies shall be arranged from independent sources. One of the two high tension supplies shall be standby to the other. In addition, an emergency supply from diesel generating (DG) source of suitable capacity shall also be provided for Kurnool -3 SS.
3. Impedance values in Siemens is not matching the excel values (the same may be clarified).
4. STUB protection in Siemens relay, operating time is 1 sec (the same may be clarified).

PSSG also suggested the following

1. During VT fuse failure, non-directional overcurrent and Earth Fault protection shall be enabled.

3	Final Relay settings and gradation chart for Tuticorin & Dharapuram Extension Bays_M/S JSW Renewable Energy Ltd	M/s JSW-RE	31.08.2026

Observations/Views Received:

PSSG in the meeting held on 31.08.2026 has analysed the proposed settings furnished by M/s JSW-RE and concluded that it may implement in compliance with the SR Protection Protocol with following recommendations

Observations on 220kV/33kV TUTICORN JSW S/S

PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 170 MVA PTR-1 220kV/33kV AT TUTICORN JSW END

PSSG had recommended the following

1. Cross block shall be enabled.
2. The 2nd and 5th harmonic restraint settings in differential protection shall be set at 15% and 25%, respectively in consultation with OEM.
3. For REF, Stabilizing resistance calculations current pickup shall be 0.1In of full load current.
4. The existing transformer in the station Backup setting shall be recalculated and coordinated.
5. The highset current shall be enable with 120% of thru fault current with a time delay of 50ms.

Observations on 220kV/33kV DHARAPURAM JSW S/S

PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 170 MVA PTR-1 220kV/33kV AT DHARAPURAM JSW END

PSSG had recommended the following:

1. Cross block shall be enabled.
2. The 2nd and 5th harmonic restraint settings in differential protection shall be set at 15% and 25%, respectively in consultation with OEM.
3. For REF, Stabilizing resistance calculations current pickup shall be 0.1In of full load current.
4. The existing transformer in the station Backup setting shall be recalculated and coordinated.

	5. The highset current shall be enable with 120% of thru fault current with a time delay of 50ms.		
4	FW: Relay setting for 288MW Mudhol-TPREL	M/s TATA Power	16.09.2026

Observations/Views Received:

PSSG in the Group Chat held on 16.09.2026 has analysed the proposed settings furnished by M/s TATA Power and concluded that it may implement in compliance with the SR Protection Protocol with following recommendations

Observations on 220kV MUDHOL - KOPPAL II (PGCIL)

PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 220kV MUDHOL End

PSSG had recommended the following:

1. Time of SOTF function active status after breaker closed in impedance mode may be set to 0.2s.
2. Load encroachment protection shall be enabled with appropriate load angle settings, and the load impedance shall be calculated as per the RK Committee recommendations.
3. During VT fuse failure, non-directional overcurrent and Earth Fault protection shall be enabled and distance protection shall be blocked.
4. Enable the Pole discrepancy time setting for main Circuit breaker a time delay of 1.5s.
5. Configure PSB such that Zone-1 is allowed to trip, while Zone-2 and higher zones remain unblocked with a time delay of 2 seconds.
6. The primary path for tele-protection shall be on point-to-point Optical Ground Wire and alternative path shall be either on Power Line Carrier Communication or predefined physically diversified Optical Ground Wire paths.
7. Under frequency and under voltage shall be disabled.
8. PMU shall be enabled.
9. Each line or transformer or reactor or any other bay shall be provided with facility for disturbance recording, event logging and Time Synchronizing Equipment and All Disturbance Recording system shall have minimum recording time of 3 seconds (0.5 seconds for prefault and 2.5 seconds for post fault).
10. Two high tension (HT) supplies shall be arranged from independent sources. One of the two high tension supplies shall be standby to the other. In addition, an emergency supply from diesel generating (DG) source of suitable capacity shall also be provided.

2. 125 MVA PTR-2,PTR-3 220kV/33kV AT MUDHOL END

PSSG had recommended the following:

1. Cross block shall be enabled.
2. Overcurrent phase and earth fault calculation shall be calculated appropriately consider the HV bus fault and IV bus fault contribution.
3. Keep the high set current pickup value as the 1.3 times of through-fault current.
4. The HV overcurrent time setting shall be graded with the downstream side with a sufficient margin of 0.2sec.
5. The HV overcurrent earth fault time setting shall be graded with the downstream side with a sufficient margin of 0.2sec
6. Buchholz, WTI and OTI (for 1 MVA and above), MOG with low oil level alarm, OSR for OLTC, PRD, SA on both primary and secondary sides of transformers located outdoors and connected to overhead lines, shall be enabled with the appropriate settings

3. 90 MVA PTR-1 220kV/33kV AT MUDHOL END

PSSG had recommended the following:

1. Cross block shall be enabled.
2. Overcurrent phase and earth fault calculation shall be calculated appropriately consider the HV bus fault and IV bus fault contribution.
3. Keep the high set current pickup value as the 1.3 times of through-fault current.
4. The HV overcurrent time setting shall be graded with the downstream side with a sufficient margin of 0.2sec.
5. The HV overcurrent earth fault time setting shall be graded with the downstream side with a sufficient margin of 0.2sec.
6. Buchholz, WTI and OTI (for 1 MVA andabove), MOG with low oil level alarm, OSR for OLTC, PRD, SA on both primary and secondary sides of transformers located outdoors and connected to overhead lines, shall be enabled with the appropriate settings

4. 220kV BUS BAR AT MUDHOL END

PSSG had recommended the following:

1. The re-trip and back trip settings shall be kept at 100ms and 200ms, respectively.

5. 220kV BUS COUPLER AT MUDHOL END

PSSG had recommended the following:

1. The overcurrent time shall be coordinated with above Zone-3 settings with sufficient margin.
2. Overcurrent earth fault protection shall be disabled.
3. The re-trip and back trip settings shall be kept at 100ms and 200ms, respectively.

5	SRPC approval for commissioning of Koppal - TRPEL 204 & 216 -220kV Lines Settings	PGCIL-II	16.09.2026 to 23.09.2026

Observations/Views Received:

PSSG in the Group Chat held on 16.09.2026 -23.09.2026 has analysed the proposed settings furnished by M/s PGCIL SR-II and concluded that it may implement in compliance with the SR Protection Protocol with following recommendations

Observations on 220kV KOPPAL II (PGCIL) – MUDHOL(TREPL)

PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 220kV KOPPAL II (PGCIL) End

PSSG had recommended the following:

1. Each line or transformer or reactor or any other bay shall be provided with facility for disturbance recording, event logging and Time Synchronizing Equipment and All Disturbance Recording system shall have minimum recording time of 3 seconds (0.5 seconds for prefault and 2.5 seconds for post fault).

Observations on 220kV KOPPAL II (PGCIL) – CHIKBANIGOLA(TREPL)

PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.

1. 220kV KOPPAL II (PGCIL) End

PSSG had recommended the following:

1. Each line or transformer or reactor or any other bay shall be provided with facility for disturbance recording, event logging and Time Synchronizing Equipment and All Disturbance Recording system shall have minimum recording time of 3 seconds (0.5 seconds for prefault and 2.5 seconds for post fault).

Note: For updation of PDMS, the following PRDC personnel may be contacted:

- Mr Varun S, varun.s@prdcinfotech.com
- Mr Bharath, bharath.b@prdcinfotech.com

d) It was noted in the earlier meetings that several entities were not submitting the Relay settings as per the timeline mentioned in the Protection Protocol. It is reiterated that as per the SR Protection Protocol, the proposed settings shall be submitted by the entity two months in advance.

e) In 118th PCSC Meeting (08.05.2024), it was noted that validity of provisional approval is one month only. Hence the entities whose settings were provisionally approved shall get the final approval of those settings within a months' time, else it would be treated as unapproved settings. Responsibility lies with the entity, if any grid occurrence happens due to unapproved settings. Also, the provisional approval of the settings cannot be given henceforth by PSSG if the complete & relevant files/settings are not submitted for the scrutiny and deliberations of PSSG.

f) SRLDC is requested to ensure the protection settings recommended by PSSG are implemented by the entities during first time energization of the respective elements.

g) All entities are requested to furnish the relay setting parameters in excel format as per the set values in relay. On analysis, it was observed that the excel file data were not matching with the downloaded relay data. PSSG will scrutinize the parameters given in excel files only and it is the responsibility of the entity to kindly ensure the parameter to be set as per the relay data given in excel file and to consider the recommendations/ suggestions specified.

h) During first time energization (FTE) of the respective elements, SRLDC needs to verify the settings implemented by the entities and ensure that the proposed settings as per the excel sheets/computations & the recommendations of PSSG are implemented by the entities.

Deliberations:

1. SRPC informed that proposals for **five** relay settings had been analysed, reviewed by the PSSG and the proposals had been approved. Recommendations, including specific recommendations /suggestions were provided. Forum concurred to the above. SRPC emphasized the importance of implementing the recommended settings as advised.
2. SRPC requested all entities to submit proposed relay settings, in the specified format, well in advance (two months before the planned commissioning date) to SRPC/PSSG. This allows sufficient time for PSSG to review the settings and provide observations or recommendations. PSSG members were also urged to submit their observations, comments and views within the given timelines to facilitate the timely analysis and recommendation of relay settings.

3. Regarding verification of the settings during FTE process, SRLDC was requested to verify the major/important settings before granting energization clearance.

4. It was noted that some vital protection settings need to be cross-verified by SRLDC with the downloaded relay settings furnished by the entities to confirm that the implemented settings are as recommended by the PSSG, which would ensure reliable and protected power system. SRLDC agreed to check the vital/major settings.

5. SRPC informed that the following protection details/ relay settings (along with computations to arrive at the setting parameters in the relay, in excel file) shall be furnished by all the entities to the PSSG for assessment:

Line Protection	**Line Differential Protection**	**Transformer/ Reactor**	**Bus Bar/ LBB**	**Generator Transformer connecting at 400 kV and above**	**Station Transformer connecting at 400kV and above**
Single Line Diagram (SLD)	Single Line Diagram (SLD)	Nameplate Details	Single Line Diagram (SLD) with full feeders connected along with CT ratio	Nameplate Details	Nameplate Details
Line sketch/Gradation Chart	Line sketch/Gradation Chart	Fault level contribution (three phase and single phase) and local feeder with highest time setting for Overcurrent and EF	Differential settings with slope characteristics	Whether Earthing of neutral of Generator transformer is solidly earthed and high voltage winding is in star point	Whether Earthing of neutral of Station transformer is solidly earthed and high voltage winding is in star point
Zone Protection along with all computations, mainly resistive & reactive reach and timings	Differential settings along with Zone settings (slope characteristics). Whether Zone 1 is enabled whenever communication fails	Differential	Whether LBB is a part of BBP or external LBB along with Re-trip and back trip timing details	Overall differential protection (87OA)	Whether segregation of group-A and B protections from DC-1 and DC-2 source has been ensured
SOTF	SOTF	REF	End Fault Protection	Generator transformer differential protection (87GT) for single phase bank	Differential current protection (87)
DEF-IDMT	DEF-IDMT	Over flux (LV & HV)	CT supervision	Restricted earth fault protection for generator transformer (87NGT)	Restricted earth fault protection for LV winding (87NLV)
OVR	OVR	Backup Distance Protection		Overhead line connection differential protection (87L) *[For 3 single phase banks, if 87L includes HV winding, separate*	Restricted earth fault protection for HV winding (87NHV)

				87NGT is not mandatory.]	
Load encroachment settings - Blinder	Load encroachment settings - Blinder	Backup directional overcurrent and EF Relay		Back- up earth fault protection on generator transformer HV Neutral (51NGT)	Back-up over-current protection on HV side (51)
A/R	A/R	Tertiary Winding Protection		Over-fluxing protection for generator transformer (99GT) *[To be duplicated for units of 500 MW and above]*	Back-up earth-fault protection (51N)
Broken Conductor	Broken Conductor			Back- up non-directional over-current protection in all phases on HV side of generator transformer (51GT)	Over-fluxing protection (99)
Communication Scheme adopted	Communication Scheme adopted			Generator transformer oil temperature indicator (OTI) trip (49Q) and winding temperature indicator (WTI) trip (49T)	Buchholz protection (63)
Mutual Compensation	Mutual Compensation			Generator transformer Buchholz (63), Pressure relief valve (PRV)/ other mechanical protections	Winding temperature high (49T)
STUB	STUB			Pole discrepancy protection of generator transformer breaker (162) *[To be provided, if single pole breakers are used.]*	Oil temperature high (49Q)
PSB	PSB			Breaker failure protection of generator transformer breaker (50Z)	Pressure relief valve trip (PRV)
Zero sequence compensation	Zero sequence compensation			Start-up earth fault protection for LV and HV winding of generator	Breaker failure protection (50Z)

				transformer and UATs (64T) *[To be provided for GCB scheme only]*	
VT Fuse failure	VT Fuse failure				
LBB- whether enabled in inbuilt relay, if yes settings	TEED Protection				
TEED Protection					
Any other protection functions enabled shall be shared with the reason for setting the same and the computation.					

6. Along with the Excel data, the entities need to share the computation files, stating the clear-cut steps for arriving at the value of each parameter. It is the responsibility of the entity to ensure the relay settings in the relay as arrived in the Excel computation files and approved by PSSG/forum.
7. The entities are required to furnish the details as suggested by the PSSG and only after the receipt of the relevant & complete details, it would be taken up for deliberation/assessment by the PSSG.
8. Regarding FTE verification, SRLDC confirmed that certain basic/major/important relay settings and DNMS ticket details were being validated and checked.
9. SRPC explained that for every new element to be commissioned/modified element or for reviewing the revised settings of any element, each Generating Company and Transmission Licensee, at voltage levels 400 kV and above and interstate lines, shall submit the protection settings as per the format prescribed, along with the calculation sheets, **two months in advance,** to SRPC/SRLDC. All entities were requested to submit the relay settings as per the timeline mentioned above, rather than a day or two before commissioning, facilitating the PSSG with enough time to discuss the settings among the members. Forum noted the same.
10. PCSC approved the relay settings of five elements, as listed above, recommended by the PSSG.

Recommendation:

- ***All entities to furnish the relay settings details as per the above finalized protection settings by the PSSG.***
- ***Entities to furnish the proposed relay settings in advance (two months before the planned commissioning date).***
- ***SRLDC to ensure the implementation of proposed protection settings along with the PSSG recommendations by the entity.***

7. Internal Protection Audit of Sub stations

The 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."

7.1 Internal Audit Plan 2027-28

1. In accordance with Clause (5) of Regulation 15 of the IEGC Regulations, all entities were requested to submit their Annual Internal Audit Plan for the substations of 220 kV and above voltage level for FY 2027-28 to SRPC.
2. All RE-ISTS entities were requested to update and submit their Internal Audit Plans for FY 2026-27 to SRPC.
3. SRPC, vide e-mail dated 25.09.2026, requested all concerned entities to submit their Internal Audit Plans for FY 2026-27 by 31.10.2026

Deliberations:

1. SRPC highlighted that as per IEGC Regulations all entities are requested to submit their internal audit plans for all substations of 220kV and above level by 31.10.2026.
2. SRPC requested SRLDC to coordinate with RE entities in submission of Internal audit plans
   - ***All Entities are requested to furnish the Internal Audit Plans for 2027-28 Immediately***
   - ***SRLDC is also requested to kindly coordinate with all RE-ISTS connected at 220kV & above voltage level) in furnishing the audit plans.***

7.2 Internal Audit Report 2026-27

The Summary of Reports Received for Internal audit for FY 2026-27 is as below

Internal Audit reports of STU's & PGCIL

Name of utility	*Q1*		*Q2*	
	No of stations scheduled	*Reports received*	*No of stations scheduled*	*Reports received*
TGTRANSCO	20	11	21	7
TANTRANSCO	43	31	41	16
KPTCL	45	42	48	20
APTRANSCO	43	11	43	11
KSEBL	9	2	15	4
PED	0	0	1	1
PGCIL SR I	7	6	6	2
PGCIL SR II	8	8	10	7

Internal Audit reports of Genco's

Name of utility	*Q1*		*Q2*	
	No of stations scheduled	*Reports received*	*No of stations scheduled*	*Reports received*
1	APGENCO	0	0	8
2	TGGENCO	0	0	1
3	KPCL	0	0	0
4	TNPGCL	2	2	1
5	TNGECL	0	0	0
6	NLCIL	0	0	2
7	STPP	1	0	0
8	NTECL	0	0	0
9	NTPL	0	0	0
10	APSPCL	0	0	0
11	BHAVINI	0	0	1
12	KSPDCL	0	0	0
13	NTPC	0	0	0
14	NPCIL	0	0	0

Internal Audit reports of Private Genco's, STU & RE-ISTS

Name of utility	**Q1**		**Q2**	
	No of stations scheduled	*Reports received*	*No of stations scheduled*	*Reports received*
SPRNG	0	0	0	0
AKSHAYA UJRA	0	0	0	0
APSPCL	0	0	0	0
HNPCL	0	0	0	0
SEL	0	0	1	0
IC&FS	1	0	0	0

CEPL	0	0	1	0
AMGEPL	0	0	0	0
JSWEL	0	0	0	0
GEENKO	0	0	1	0
RENEW	0	0	0	0
STPP	1	0	0	0
SEIL - 1	0	0	0	0
UPCL	0	0	1	0
VENA GADAG	0	0	0	0
GREENKO AP01	0	0	1	0
NTPC GREEN	0	0	0	0
VILATHIKULAM 300kV	0	0	0	0
VILATHIKULAM 230kV	0	0	0	0
SAVALAPER	0	0	0	0
KARUR PS-1	0	0	0	0
KARUR PS -2	0	0	0	0
GREEN INFRA RENEWABLE ENERGY LTD	0	0	0	0
ATHIKINARU	0	0	0	0
MYTRAH	0	0	0	0
NNTPS	0	0	0	0
KARUR (KTL)	0	0	0	0
WKTL	0	0	0	0
KLEIO SOLAR PVT LTD	1	1	1	1
SERENTICA	4	4	0	0
MEL	2	1	0	0
TP SOURYA KOPPAL LTD	1	1	0	0
NLC - TPS -2 EXP	0	0	2	0
NLC TPS - 1	0	0	0	0
NLC TPS - 2	0	0	2	0
TP VARDHAMAN SURYA LTD	1	1	0	0

Recommendations

- ***Entities to furnish the internal audit report along with recommendation and action plan for rectification of deficiencies detected, if any, to SRPC after completion of the audit. (Only soft copy of Internal Audit report may be furnished, while hard and soft copy of the recommendations and action plan need to be furnished).***
- ***Entities to include the 'Verification of the relay setting coordination with the connected elements' in the internal protection audit checklist as well as in the audit report.***
- ***SRLDC also to take up with RE ISTS Entities (220kV & above) and furnish the Internal audit plans.***

8. Third-Party Protection Audit

The Clause (5) of Regulation 15 of IEGC Regulations, 2023 specifies the following:
Quote

(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 Third party protection audit plan 2027-28

1. In accordance with the applicable provisions of the IEGC Regulations, all concerned entities were requested to submit their Third-Party Protection Audit Plan for FY 2027-28 for substations of 220 kV and above voltage level to SRPC.
2. All RE-ISTS entities were requested to update and submit their Third-Party Protection Audit Plans for FY 2026-27 to SRPC.
3. SRPC, vide e-mail dated 25.09.2026, requested all concerned entities to submit their Third-Party Protection Audit Plans for FY 2026-27 by 31.10.2026.

Deliberations:

1. SRPC highlighted that as per IEGC Regulations all entities are requested to submit their internal audit plans for all substations of 220kV and above level by **31.10.2026.**
2. SRPC requested SRLDC to coordinate with RE entities in submission of Internal audit plans

- ***All Entities are requested to furnish the Internal Audit Plans for 2027-28 Immediately***
- ***SRLDC is also requested to kindly coordinate with all RE-ISTS connected at 220kV & above voltage level) in furnishing the audit plans.***

8.2 Third Party Protection Audit for FY 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. SRPC, vide letter dated 20.03.2026 **(Annexure-8a),** issued the schedule to carry out Third Party Protection Audit through SRPC Coordination for FY 2026-27 **(Annexure-8b). 121** number of Substations in the Region for the period April 2026 - March 2027 as mentioned in the Annexure-8b are to be audited under SCTPPA by the Audit teams constituted by SRPC.
3. **The scheduled audits have to be taken up strictly as per the SCTPPA schedule to enable proper monitoring. In the event of extreme exigencies, the audit may be rescheduled as soon as possible, in consultation with the respective auditors and intimate to SRPC.**

Deliberations:

SRPC requested SRLDC to coordinate with RE ISTS entities through REMC to ensure submission of third-party protection audit reports & plans of substations at 220 kV and above voltage levels. SRLDC agreed to the same.

- ***Entities (connected at 220 kV & above) to furnish the internal and Third-party audit plans to SRPC at the earliest.***
- ***SCTPPA entities to carryout Third party audit as per schedule.***

9. Protection Performance Indices

1. As per the Protection Protocol of SR prepared in compliance with the IEGC Regulations 2023, Users/Entities shall submit the protection performance indices of previous month to SRPC and SRLDC on monthly basis for 220 kV and above by 15th of the subsequent month and the same shall be reviewed in the ensuing PCSC meeting of SRPC.
2. Protection performance Indices for the months of **August 2026 are pending from the following entities:**

ADANI_ATL	Ayana Renewable Power Six Pvt Ltd	BHAVINI	HIRIYUR_ZREPL
ILFS	INDIGRID	JSW_RE	JSW_THERMAL
KPTCL	KSEB	KSPDCL	LKPPL
MYTRAH	NLC	NPCIL_KKNP	NTPC
NTPC_KUDGI	NTPC_RSTPS	NTPL	ORANGE
PGCIL SR-1	PVG_JSW Renew Twenty Ltd	RENEW POWER PVT LTD	SAEL
SCCL	SEIL	SEPC	SEPL
SERENTICA_RI1PL	TNGECL	TNPGCL	

3. The consolidated details of protection performance indices received from the entities for the months of August 2026 are at **Annexure 9a.** The same would be reviewed in the meeting.
4. The non-compliance of IEGC Regulations/Protection Protocol of SR by the entities (who have not furnished the protection performance indices of AUGUST 2026) would be deliberated in the meeting.
5. In the 126th PCSC meeting, all STUs confirmed that the Protection Performance Indices (PIs) of their Embedded Entities/Independent Power Producers (IPPs) are included in their respective STU/TRANSCOs Monthly PPI reports.
6. In the 135th PCSC meeting SRLDC requested all entities to recheck the classification report before clicking the verify button and to contact SRLDC in case of any discrepancies or variations between the user and SRLDC data.
7. SRLDC to modify the Tripping Classification after Discussion in the previous PCSC meetings and furnish the updated Tripping Classification report.
8. In the 140th PCSC meeting SRPC requested all entities to ensure that successful Auto Reclosure (A/R) operations are also entered in the PPI portal.
9. **As decided in the 139th PCSC meeting, one of the SR utilities would make a detailed presentation, in each meeting, on the PPI performance of its system, including**

analysis carried out and corrective actions taken. PGCIL SR-I and PGCIL SR-II to present on the PPI findings in the 147th PCSC Meeting.

10. In the 140th PCSC meeting SRPC further highlighted that several variations were observed in the tripping classifications furnished by the utilities and SRLDC and requested all entities and SRLDC to coordinate closely and rectify the classification errors, as the errors lead to inaccurate PPI indices.

11. The Tripping Classification Variation report for Month of August 2026 is as below. SRLDC is requested to give clarification on the variations in Classification report and action taken by the entities.

क्र. स. /S. NO.	एलमन्ट नाम/ ELEMENT NAME	ट्रिपिंग की तारीख/ TRIPPING DATE	ट्रिपिंग का समय/ TRIPPING TIME	सेंडिंग एंड/SENDING END			रीसीविंग एंड/RECEIVING END		
				उपयोगकर्ता /USER	उपयोगकर्ता ट्रिपिंग वर्गीकरण /USER TRIPPING CLASSIFICATION	एसआरएलडी सी ट्रिपिंग वर्गीकरण /SRLDC TRIPPING CLASSIFICATION	उपयोगकर्ता/ USER	उपयोगकर्ता ट्रिपिंग वर्गीकरण /USER TRIPPING CLASSIFICATION	एसआरएलडी सी ट्रिपिंग वर्गीकरण /SRLDC TRIPPING CLASSIFICATION
1	400KV-ANANTHPURAM-ATP_RenewVyoman-1	01-08-2026	01:37	PGCIL SR-1	Correct Operation	Unwanted Operation	RENEW POWER PVT LTD	Correct Operation	Unwanted Operation
2	220KV-PAVAGADA_PG-IRCON_PVG_S-2	01-08-2026	13:26	PGCIL SR-2	Correct Operation	Correct Operation	PVG_IRCON_S	Correct Operation	Unwanted Operation
3	400KV-GUDDIGUDEM-HINDUJA-1	02-08-2026	01:10	APTRANSCO	Correct Operation	Correct Operation	HINDUJA	Correct Operation	Unwanted Operation
4	220KV-YERRAANDAHALLI-HOSUR-1	02-08-2026	13:11	KPTCL	Correct Operation	Failure Operation	TANTRANSCO	Correct Operation	Correct Operation
5	220KV-SULURPET-GUMMIDIPOONDI-1	05-08-2026	22:45	APTRANSCO	Correct Operation	Correct Operation	TANTRANSCO	Correct Operation	Unwanted Operation
6	400KV-GAZUWAKA-KALPAKKA-2	08-08-2026	21:42	PGCIL SR-1	Correct Operation	Correct Operation	APTRANSCO	Correct Operation	Unwanted Operation
7	400KV-SIMHADRI-GAZUWAKA-1	09-08-2026	13:02	NTPC_SIMHADRI	Unwanted Operation	Correct Operation	PGCIL SR-1	Correct Operation	Unwanted Operation
8	400KV-GAZUWAKA-KALPAKKA-1	10-08-2026	06:34	PGCIL SR-1	Correct Operation	Unwanted Operation	APTRANSCO	Correct Operation	Correct Operation
9	220KV-SULURPET-GUMMIDIPOONDI-1	11-08-2026	00:57	APTRANSCO	Correct Operation	Correct Operation	TANTRANSCO	Correct Operation	Failure Operation
10	220KV-KUDGI_NTPC-BILAGI-2	11-08-2026	10:47	NTPC_KUDGI	Correct Operation	Correct Operation	KPTCL		Unwanted Operation

11	400KV-VTPS_IV-VIJAYAWADA-1	11-08-2026	18:27	APGENCO	Unwanted Operation	Unwanted Operation	PGCIL SR-1	Unwanted Operation	Correct Operation
12	400KV/230KV MADURAI_PG-ICT-1	16-08-2026	11:18	PGCIL SR-2	Correct Operation	Unwanted Operation			
13	400KV-HEBBANAHALLI-UPCL-2	17-08-2026	15:04	KPTCL	Correct Operation	Unwanted Operation	ADANI_APL	Correct Operation	Correct Operation
14	400KV/220KV HEBBANAHALLI-ICT-1	17-08-2026	15:04	KPTCL	Correct Operation	Unwanted Operation			
15	220KV-PEENYA-NELAMANGALA-2	20-08-2026	12:44	KPTCL		Failure Operation	KPTCL	Correct Operation	Failure Operation
16	220KV-NELAMANGALA-BRINDAVAN-1	20-08-2026	12:44	KPTCL	Correct Operation	Unwanted Operation	KPTCL		Correct Operation
17	220KV-PEENYA-NELAMANGALA-1	20-08-2026	12:44	KPTCL		Unwanted Operation	KPTCL		Correct Operation
18	220KV-NELAMANGALA-SAHKARI_NAGAR-1	20-08-2026	12:44	KPTCL	Correct Operation	Unwanted Operation	KPTCL		Correct Operation
19	220KV-KUDGI_NTPC-BILAGI-1	24-08-2026	06:25	NTPC_KUDGI	Correct Operation	Correct Operation	KPTCL	Failure Operation	Unwanted Operation
20	220KV-THENI-SABARIGIRI-1	24-08-2026	15:37	TANTRANSCO	Correct Operation	Correct Operation	KSEB	Failure Operation	Correct Operation
21	220KV-ASUPAKA-LOWER_SILERU-1	25-08-2026	12:53	TGTRANSCO	Correct Operation	Failure Operation	APGENCO	Correct Operation	Failure Operation
22	220KV-KUDGI_NTPC-BILAGI-2	27-08-2026	09:40	NTPC_KUDGI	Correct Operation	Correct Operation	KPTCL		Failure Operation
23	220KV-KUDGI_NTPC-BILAGI-1	27-08-2026	09:40	NTPC_KUDGI	Correct Operation	Correct Operation	KPTCL		Unwanted Operation

24	230KV-MAPS-ECHUR-1	28-08-2026	13:23	NPCIL_ MAPS	Correct Operation	Failure Operation	TANTRA NSCO	Correct Operation	Correct Operation
25	220KV-KUDGI_NTPC-BILAGI-2	31-08-2026	04:17	NTPC_ KUDGI	Correct Operation	Unwanted Operation	KPTCL	Failure Operation	Failure Operation

Deliberations:

1. SRPC expressed serious concern over the continued non-submission of Protection Performance Indices (PPIs) by several ISTS and RE entities. It was reiterated that, in accordance with the IEGC Regulations and the SR Protection Protocol, submission of PPIs on a monthly basis to SRPC and SRLDC is mandatory and shall be ensured by all entities without exception.
2. SRLDC was requested to follow up with the concerned ISTS and RE entities to ensure timely compliance, as deliberated in the earlier PCSC meetings. Further, SRLDC was requested to verify the correctness of the PPIs submitted by the entities and report any discrepancies observed during the PCSC meetings.
3. SRPC requested all entities to ensure that all successful Auto Reclosure (A/R) operations are also updated in the PPI portal.
4. SE, SRPC expressed concern regarding the low PPI indices observed for several utilities and enquired about the corrective measures being taken by the respective entities to improve their performance indices.
5. SE, SRPC requested all entities to treat the PPI as a preliminary diagnostic tool and advised that detailed internal analysis should be carried out by the respective utilities, particularly in cases where low PPI indices are observed.
6. MS, SRPC advised PGCIL SR-I and PGCIL SR-II to present the PPI analysis for the month of September 2026 individually. PGCIL SR-I and PGCIL SR-II agreed for the same.

Recommendations:

- ***Entities to furnish the Protection Performance Indices for the month of August 2026.***
- ***Users/ Entities to submit the monthly Protection Performance Indices of the month i.r.o 220 kV and above voltage level to SRPC/ SRLDC by 15th of the subsequent month to enable review in the ensuing PCSC meeting.***
- ***Along with the Protection Performance Indices details (including all the element tripping details), Users/ Entities to submit the inter-state lines tripping details,***

however, the entities shall not count those occurrences/incidences while computing Performance Indices.

- ***All entities to furnish all tripping details, along with the Protection Performance Indices.***
- ***ISTS connected RE entities to submit the Protection Performance Indices.***
- ***SRLDC/REMC to take up with ISTS connected entities (including RE) and ensure the submission of Protection Performance Indices.***
- ***SRLDC to verify the Protection Performance Indices furnished by the ISTS entities/ Users and discrepancies, if any, may be reported to PCSC in the meetings.***
- ***SRLDC to update the tripping classification details after discussion in the PCSC meeting.***
- ***Utilities to give presentation on the PPI performance of its system, including analysis carried out and corrective actions taken.***

10. Status of Islanding Schemes Reviewed during 2025-26

1. Monitoring of Islanding Schemes by SLDCs/SRLDC

(i) In accordance with Standard Operating procedure (SOP) issued by MoP/CEA, SRLDC and SLDCs (Nodal LDCs of the islanding Schemes) need to monitor the Island generation and load on real-time basis. SOP clauses are reproduced below:

"2. Monitoring of Vital Parameters

i. Since formation of Island can take place at any time, monitoring of the following vital parameters, which have a significant role in on successful Island formation, is of paramount interest:

a. Anticipated/ actual Generation within the electrical boundary of the Island.

b. Anticipated/ actual Load within the electrical boundary of the Island.

c. Voltage, Frequency & Power Flows along the peripheral lines which are required to be tripped to form the Island.

ii. Above parameters are to be monitored in real-time basis in the Control Room/Despatch Centre (i.e., Sub SLDCs/SLDC/RLDC/NLDC) of the area by creating a dedicated page specific to the Islanding Scheme in the SCADA display. To accomplish this, provision should also be made, if required, for installing adequate measuring instruments (like PMU) at suitable locations within the Island."

2. As per the earlier PCSC meeting deliberations, SRLDC to act as a Nodal agency for Neyveli & Kudankulam Islanding schemes, since the IS are covered in 2-3 states/UT and monitor the critical parameters including the Load & Generation of the island in real time. Following are the nodal LDCs of the Islanding Schemes of SR:

Islanding Scheme	Nodal LDC
Vijayawada & Vishakhapatnam IS	AP SLDC
Bengaluru IS	KAR SLDC
Chennai IS	TN SLDC

Hyderabad IS	TG SLDC
Neyveli IS	TNSLDC, KERSLDC, PUDSLDC,SRLDC
Kudankulam IS	TNSLDC, KERSLDC, SRLDC

3. SCADA monitoring displays are made available in the respective SLDCs & SRLDC. Nodal LDCs need to furnish the Island LGB data for four scenarios for previous month along with their observations & SCADA data on monthly basis by 25th of the month in the following format to SRPC:

Peak Load scenario in the Island during the previous month		Off- Peak Load scenario in the Island during the previous month		Maximum Generation scenario in the Island during the previous month		Monthly Average data scenario	
Generation in MW	Load in MW	Generation in MW	Load in MW	Generation in MW	Load in MW	Generation in MW	Load in MW

Note:

Generation in MW*: Generation data of all generators participating in the Island scheme only.*

Net Load in MW: *Total surviving load after deducting the AUFR+df/dt+ (Island feeders, if any) in the Island.*

4. SRLDC, vide mail dated **09.09.2026**, furnished the Monthly Islanding data which is illustrated below. The Islanding Plots furnished by SRLDC is at **Annexure-10:**

Island	Bangalore	Chennai	Hyderabad	Kudankulam	Neyveli	Vijayawada	Visakhapatnam
Peak Load Generation	1920	2732	3261	6582	3177	1747	2009
Peak Load	4245	2584	5256	9888	4161	2513	2236
Peak Load Time	8/13/2026 13:28	8/17/2026 22:35	8/21/2026 12:38	8/5/2026 19:07	8/11/2026 7:40	8/22/2026 22:51	8/5/2026 21:35
Off Peak Generation	3230	2721	4025	3662	2929	1351	1752
Off Peak Load	1600	1383	2866	3059	1454	1388	1376
Off Peak Load Time	8/31/2026 15:48	8/11/2026 4:46	8/31/2026 3:21	8/17/2026 11:35	8/9/2026 13:59	8/2/2026 7:54	8/17/2026 12:09
Maximum Generation	5046	3279	5984	7042	5865	2395	2918
Load at Maximum Generation	3318	2044	3606	4782	3880	1926	1925
Maximum Generation Time	8/4/2026 20:04	8/4/2026 2:42	8/12/2026 1:24	8/31/2026 19:45	8/20/2026 6:41	8/8/2026 19:40	8/30/2026 23:14
Average Generation	3260	2486	4425	4943	3772	1511	2034
Average Load	2954	1937	4147	5143	2888	1922	1769
Maximum SR RE time	8/1/2026 12:35	8/1/2026 12:35	8/1/2026 12:35	8/1/2026 12:35	8/1/2026 12:35	8/1/2026 12:35	8/1/2026 12:35
RE Max Gen	2720	2501	3390	4755	2662	1199	1540

RE Max Load	3524	2169	4220	5357	2275	1779	1688

5. Substantial variations in the LGB, owing to flexing of generation by conventional generating stations participating in the Islanding Schemes and participating load quantum during high RE injection, particularly during high solar generation period, have been observed. To analyse the IS LGB under various scenarios to enable appropriate review and remedial action, SRLDC is requested to present snapshot of SCADA display of the Islanding page during **solar peak hour** of the previous day.

6. **Nodal LDCs were requested**

- To furnish their observations regarding the LGB data.
- To provide reasons for Low / High LGB observed.
- Nodal LDCs should present the following for the Island for the month of **August** 2026 during the PCSC meeting:
  - Load Duration Curve
  - Generation Duration Curve
  - G/L Duration Curves

7. **STU/TRANSCOs are requested to coordinate with SLDC and to present the data in the PCSC Meeting**

8. In the earlier meetings, it was emphasized that SLDCs and SRLDC are responsible to monitor new elements being added inside or across the island boundaries of the respective islands of their control area (Nodal LDC for the Islanding scheme), and if any element gets added across the boundary of the Island (Island boundary as per the reviewed island document issued by SRPC), UFR at islanding frequency shall be implemented by respective SLDC/TRANSCO/TSP on those elements with intimation to SRPC and SRLDC. In addition, SRLDC shall also monitor the transmission elements getting added across interstate boundaries affecting the existing islands and intimate the same to respective SLDCs for UFR implementation.

9. SRLDC vide mail dated 25-09-2026 furnished the new elements added in the grid, as per the PSSE case for September 2026. **Entitles are requested to verify and confirm any Island crossing feeders are present in the list.**

From_Bus	To_Bus	From_Name	To_Name	ID	From_Bus_Area_Name	To_Bus_Area_Name
411460	411572	NAIDUPETA 21132.00	BIRLACARBN 132.00	P1	ANDRAPRADESH	ANDRAPRADESH
412033	412056	PODILI2 220.00	MARKAPURAM 220.00	Z2	ANDRAPRADESH	ANDRAPRADESH
412050	412226	GUDIVADA 220.00	GOPAVARAM 220.00	M1	ANDRAPRADESH	ANDRAPRADESH
412050	412226	GUDIVADA 220.00	GOPAVARAM 220.00	M2	ANDRAPRADESH	ANDRAPRADESH
412064	412226	UNDI 220.00	GOPAVARAM 220.00	M1	ANDRAPRADESH	ANDRAPRADESH
412191	412226	AKIVEEDU 220.00	GOPAVARAM 220.00	M1	ANDRAPRADESH	ANDRAPRADESH
414066	414073	KURNOOL-III 400.00	ADN650_KR3 400.00	T1	SR_ISTS_AP	KURNOOL3
414066	414073	KURNOOL-III 400.00	ADN650_KR3 400.00	T2	SR_ISTS_AP	KURNOOL3
427002	437003	MAHESWARAM 765.00	BIDAR_765 765.00	H1	SR_ISTS_TS	BIDAR
427002	437003	MAHESWARAM 765.00	BIDAR_765 765.00	H2	SR_ISTS_TS	BIDAR
432047	432392	KEMAR 220.00	KADANDALE_22220.00	1	KARNATAKA	KARNATAKA
432047	432392	KEMAR 220.00	KADANDALE_22220.00	2	KARNATAKA	KARNATAKA

432047	432392	KEMAR 220.00	KADANDALE_22220.00	3	KARNATAKA	KARNATAKA
432105	432392	KAVOOR 220.00	KADANDALE_22220.00	D1	KARNATAKA	KARNATAKA
432145	432409	PAVAGADA 220.00	SECI_PVG 220.00	1	SR_ISTS_KA	PVGDA
432148	432392	MSEZ 220.00	KADANDALE_22220.00	D1	KARNATAKA	KARNATAKA
432148	432392	MSEZ 220.00	KADANDALE_22220.00	D2	KARNATAKA	KARNATAKA
434021	434044	UDUPI PCL 400.00	KADANDALE 400.00	Q1	KARNATAKA	KARNATAKA
434021	434044	UDUPI PCL 400.00	KADANDALE 400.00	Q2	KARNATAKA	KARNATAKA
434036	434044	HEBANAHALLI 400.00	KADANDALE 400.00	1	KARNATAKA	KARNATAKA
434036	434044	HEBANAHALLI 400.00	KADANDALE 400.00	2	KARNATAKA	KARNATAKA
441182	441256	TIRUPUR 110.00	NETHAJI 110.00	1	TAMILNADU	TAMILNADU
441258	441410	GETICHEBIYUR110.00	KUNATHUR 110.00	1	TAMILNADU	TAMILNADU
441278	441410	SAKTHIAUTO 110.00	KUNATHUR 110.00	1	TAMILNADU	TAMILNADU
441303	446217	INGUR21 110.00	MILKYMIST 110.00	1	TAMILNADU	TAMILNADU
441304	446222	ERODE1 110.00	VILARASMPTY 110.00	1	TAMILNADU	TAMILNADU
441410	446220	KUNATHUR 110.00	ERO_PGPAL 110.00	2	TAMILNADU	TAMILNADU
441435	446218	THINGALUR21 110.00	KONGUCOLL 110.00	1	TAMILNADU	TAMILNADU
441435	446219	THINGALUR21 110.00	VIJAYMNGLM 110.00	2	TAMILNADU	TAMILNADU
441435	446221	THINGALUR21 110.00	GANGAPRM 110.00	1	TAMILNADU	TAMILNADU
446217	446218	MILKYMIST 110.00	KONGUCOLL 110.00	1	TAMILNADU	TAMILNADU
446219	446220	VIJAYMNGLM 110.00	ERO_PGPAL 110.00	2	TAMILNADU	TAMILNADU
446221	446222	GANGAPRM 110.00	VILARASMPTY 110.00	1	TAMILNADU	TAMILNADU
412051	414011	KALAPAKA42 220.00	KALAPAKA4 400.00	4	ANDRAPRADESH	ANDRAPRADESH
432392	434044	KADANDALE_22220.00	KADANDALE 400.00	1	KARNATAKA	KARNATAKA
432392	434044	KADANDALE_22220.00	KADANDALE 400.00	2	KARNATAKA	KARNATAKA
432400	434045	BIDAR_220 220.00	BIDAR 400.00	1	BIDAR	BIDAR
432400	434045	BIDAR_220 220.00	BIDAR 400.00	2	BIDAR	BIDAR
432400	434045	BIDAR_220 220.00	BIDAR 400.00	3	BIDAR	BIDAR
432400	434045	BIDAR_220 220.00	BIDAR 400.00	4	BIDAR	BIDAR
432400	434045	BIDAR_220 220.00	BIDAR 400.00	5	BIDAR	BIDAR
434041	437002	KOPPAL_II 400.00	KOPPAL-II_PG765.00	1	SR_ISTS_AP	SR_ISTS_KA
434045	437003	BIDAR 400.00	BIDAR_765 765.00	1	BIDAR	BIDAR
434045	437003	BIDAR 400.00	BIDAR_765 765.00	2	BIDAR	BIDAR
434045	437003	BIDAR 400.00	BIDAR_765 765.00	3	BIDAR	BIDAR

10. In the 140th PCSC meeting SRPC requested SRLDC to take up issues with the respective SLDCs whenever erratic SCADA data is observed, so that the issues can be addressed in real time. SRLDC agreed to inform their SCADA department accordingly.

11. All entities were requested to enter the details in the portal regarding the new elements added in the grid on regular basis.

Deliberations:

1. APTRANSCO informed that the 220 kV Undi – Gopavaram feeder was a boundary feeder; however, the line was yet to be commissioned. It was stated that UFR tripping would be implemented for this feeder after commissioning of the line.
2. Regarding the 220 kV Akiveedu – Gopavaram feeder, APTRANSCO confirmed that UFR tripping had been implemented at the 220 kV Gopavaram end. It was further informed that UFR protection was already available at the 220 kV Akiveedu end.
3. Apart from above the concerned entities confirmed that the feeders listed under the agenda item did not cross any island boundary.

Recommendations:

- ***Nodal SLDCs of the Islanding Schemes to monitor new elements being added across the island boundaries of the respective islanding scheme and to ensure implementation of UFR at islanding frequency.***

- ***SRLDC to monitor the transmission elements getting added across interstate boundaries affecting the existing IS and intimate the same to respective SLDCs for UFR implementation.***

12. Furnishing of Monthly Certificate on Healthiness of Islanding Schemes by Generators/ Transmission Utilities / SLDCs/ DISCOMS

1. All Constituents as listed below were requested to submit certificate on Healthiness of Islanding Schemes on monthly basis –by the first week of every month (i.e. status for a month shall be sent before the 3rd day of the succeeding month) to SRPC as per the formats, circulated vide SRPC letter dated 09 August 2021:

Islanding Scheme	Constituents
Hyderabad (Ramagundam) IS	TGTRANSCO, SLDC-TGTRANSCO, TGGENCO, PGCIL (SR-I), NTPC-Ramagundam
Chennai IS	TANTRANSCO, SLDC-TANTRANSCO, PGCIL (SR- II)
Neyveli IS	TANTRANSCO, SLDC-TANTRANSCO, PGCIL (SR- II), PED, NLCIL, NNPTPS, KSEBL
Kudankulam IS	TANTRANSCO, SLDC-TANTRANSCO, PGCIL (SR- II), KSEBL
Visakhapatnam (Simhadri) IS	APTRANSCO, SLDC-APTRANSCO, APGENCO, PGCIL (SR-I), NTPC-Simhadri
Bengaluru IS	KPCL, KPTCL, PGCIL (SR-I), PGCIL (SR-II), UPCL, NTPC-Kudgi, NPCIL-Kaiga
Vijayawada IS	APTRANSCO, SLDC-APTRANSCO, APGENCO, PGCIL (SR-I)

2. As decided in 112th Meeting of PCSC held on 06th November 2023, all Utilities concerned are requested to furnish the certificate in the prescribed format regularly (before 7th day of every month) for onward reporting to CEA/ MoP.

3. The Certificate of Healthiness of Islanding Schemes for the month of **August 2026** has been received from all the utilities.

Recommendations:

- ***All the entities concerned to submit the certificate of Healthiness of Islanding Schemes on monthly basis, by the first week of every month (i.e. status for a month shall be sent before the 7th day of the succeeding month), to SRPC as per the formats circulated, vide SRPC letter dated 09th August 2021.***

11. Ensuring Readiness of Islanding Schemes

1. In view of the prevailing security concerns across the country and as per the directions issued by the Ministry of Power, it is imperative to ensure the operational reliability and effectiveness of the existing Islanding Schemes. Accordingly, all Nodal Load Despatch Centres (SLDCs), State transmission utilities and ISTS transmission licensees are requested to ensure the following in respect of Southern Region Islanding Schemes (IS) under their jurisdiction:

Sl. No.	Activity	Entity Responsible
1	Testing and verification of all stages of Under Frequency Relays (UFR) and df/dt relays within the Islanding Scheme were requested to be ensured.	Nodal SLDC, STU & ISTS
2	Testing and verification of other relay set points, such as Under Frequency (U/f) and Over Frequency (O/f) settings of the participating generators, PILM feeders, etc., identified within the Islanding Scheme, were advised to be carried out.	Nodal SLDC, STU & ISGS Stations within the Island
3	Confirmation regarding the operational healthiness and readiness of the Islanding Schemes was requested to be provided.	Nodal LDC
4	Continuous monitoring of the Islanding Schemes through SCADA visibility in the LDCs was advised to be ensured.	Nodal LDC

2. Following are the nodal LDCs of the Islanding Schemes of SR:

Islanding Scheme	Nodal LDC
Vijayawada & Vishakhapatnam IS	AP SLDC
Bengaluru IS	KAR SLDC
Chennai IS	TN SLDC
Hyderabad IS	TS SLDC
Neyveli IS	TNSLDC, KERSLDC, PUDSLDC, SRLDC
Kudankulam IS	TNSLDC, KERSLDC, SRLDC

- **SRPC, vide email dated 14.05.2025, requested that a report of confirmation of the above may please be shared to SRPC at the earliest.**
- **APTRANSCO, vide mail dated 02.06.2025, informed that testing and verification of test points was done and found satisfactory.**
- **Subsequently, TGTRANSCO, TANTRANSCO, KPTCL & PED had confirmed the testing and verification of UFR relays under their purview.**
- **In the 133rd PCSC meeting PGCIL SR–I informed that they do not have standalone UFR relays and that actual UFR testing would be carried out during Line Clearance (LC). They further confirmed that the physical setting of test points in the relay display had been verified and that testing would be completed during LC.**
- **In the 134th PCSC meeting KSEBL confirmed that AUFR testing verification was completed.**

All SLDCs to ensure monthly verification of set points.

- ***All Nodal Load Despatch Centres (SLDCs), State transmission utilities and ISTS transmission licensees to furnish confirmation report on Island Readiness to SRPC immediately.***

12. Review of SR-Islanding Schemes

1. Due to the variation in generation and load growth in the already designed Islanding Schemes, the Annual Review of SR Islanding Schemes is being undertaken every year.
2. Accordingly, the review meetings of all SR Islanding Schemes were conducted as per the schedule given below:

Sl. No.	Islanding Scheme	Date of Review Meeting			Date of Issuance of Reviewed IS Document
Review meetings →		1st Review	2nd Review	3rd Review	
1	Hyderabad	11.06.2025	25.09.2025	17.02.2026	27.07.2026
2	Bangalore	11.06.2025	09.12.2025	17.02.2026	27.07.2026
3	Vijayawada	11.07.2025	25.09.2025	----	30.03.2026
4	Visakhapatnam	11.07.2025	25.09.2025	17.02.2026	10.04.2026
5	Chennai	15.07.2025	09.12.2025	17.02.2026	10.04.2026
6	Neyveli	15.07.2025	16.12.2025	-----	27.07.2026
7	Kudankulam	15.07.2025	16.12.2025	-----	29.07.2026

Deliberations:

1. SRPC enquired about the implementation status of the reviewed islanding schemes (IS).
2. APTRANSCO informed that the implementation of the Vijayawada Islanding Scheme had been completed, while implementation of the PILM loads under the Visakhapatnam Islanding Scheme was pending.
3. TANTRANSCO informed that implementation of certain AUFR feeders under the Chennai Islanding Scheme was pending.
4. KPTCL informed that implementation of the Bangalore Islanding Scheme had been completed and stated that confirmation would be furnished to SRPC through email.

- ***APTRANSCO, TANTRANSCO, TGTRANSCO, KSEBL, KPTCL, PED & SRLDC to update the status of implementation of Reviewed IS.***

13. Nodal Officer Details for Islanding Schemes — Role, Responsibility & Coordination Activities

As per the Standard Operating Procedure (SOP) (Annexure-13) for Islanding Schemes,

- Roles and responsibilities of the organizations/officers involved in designing and operating the Islanding Schemes are defined in *Annexure-III* of the SOP.
- A **Nodal Officer** is to be nominated by each utility participating in the Island (owners of generating stations, substations, transmission lines, distribution lines, etc.) along with a **Chief Nodal Officer** from the concerned Despatch/Control Centre.

- The Chief Nodal Officer from the LDC and utility-specific Nodal Officers shall ensure free flow of information regarding operational status of the Islanding Scheme and prompt communication between SCADA Control Centres and stations.
- Further, each RLDC shall designate a **Coordination Officer** for regional level monitoring.

Entity	Required Level of Nodal Officer	Key Role/Responsibility
RPCs (Regional Power Committee)	*Superintending Engineer* (nominated by Member Secretary, RPC)	Preparation, coordination, and periodic review of Islanding Schemes
RLDCs (Regional Load Despatch Centres)	*General Manager & above*	Coordinating Nodal Officer for region; monitor vital parameters of schemes at SCADA; recommend PMUs/ communication upgrades; certify healthiness of systems
LDCs (State Load Despatch Centres)	*Chief Engineer & above*	Chief Nodal Officer at state level; coordinate DISCOM/TRANSCO/ GENCO nodal officers; ensure proper data flow; monitor health of SCADA, relays, communication; certify components monthly; implement schemes at state level.
GENCOs (Generating Companies)	*General Manager / Chief Engineer & above*	Implement schemes at generation end; provide data for study/review; ensure healthiness of generating units, relays, communication; submit monthly certification
STUs / PGCIL (Transmission Utilities)	*General Manager / Chief Engineer & above*	Implement schemes at transmission end; ensure healthiness of substations, lines, relays, communication; provide data for review; monthly certification.
DISCOMs (Distribution Companies)	*General Manager / Chief Engineer & above*	Identify essential and defence loads; implement schemes at distribution end; ensure feeder/relay/communication health; monthly certification.

- An updated list of contact details of all such Nodal Officers is to be maintained by the LDC.
- **SLDC, STU, SGS, ISGS, ISTS & RLDC were requested to furnish the details in the below format**
- SLDCs to coordinate with respective DISCOMs w.r.t nomination of nodal officer and discharge of IS related responsibilities.

Utility Name & Location	Name	Designation	Organization	Email ID	Mobile No.

The latest status of nominations received is as below:

S.No	Name of Islanding Scheme	STU	SLDC	Gencos

1	Telangana	✓	✓	✓
2	Andhra Pradesh	✓	✓	✓
3	Tamil Nadu	✓	✓	X
4	Karnataka	✓	✓	✓
5	Kerala	✓	✓	✓
6	Puducherry	✓	✓	NA
7	PGCIL (SR)	✓	NA	NA
8	NTPC (SR)	NA	NA	✓
9	NPCIL KGS 1&2	NA	NA	✓
10	NPCIL KGS 3&4	NA	NA	✓
11	NPCIL MAPS	NA	NA	✓
12	NPCIL KKNPP	NA	NA	✓
13	ADANI (APL/ATL)	✗	NA	✓
14	HNPCL	NA	NA	✓
15	NLCIL	NA	NA	✓
16	SRLDC	✓		

✓ -- Furnished
✗ -- Not Furnished
NA- Not Applicable

Deliberations:

1. SRPC informed the forum that the roles and responsibilities of the organizations/officers involved in designing and operating the Islanding Schemes are defined in *Annexure–III* of the Standard Operating Procedure (SOP).
2. SRPC stated that a Nodal Officer is to be nominated by each utility participating in the Island (owners of generating stations, substations, transmission lines, distribution lines, etc.), along with a Chief Nodal Officer from the Despatch/Control Centre concerned.
3. SRPC highlighted that Nomination from **TNPGCL & ADANI (ATL)** were pending.

Utilities concerned to furnish the details of Nodal Officer as per the SoP.

14. Periodic Inspection / Audit of Essential Components of Islanding Schemes

As per the Standard Operating Procedure (SOP) for Islanding Schemes, periodic inspection / audit of all essential components is required to ensure continued healthiness and operational reliability. The SOP specifies the following frequency and scope:

- **Under Frequency Relays (UFR)** on Island forming elements (Lines & ICTs) – *Quarterly*

- **Associated communication equipment** at all stations within the Island – *Bi-monthly*
- **Associated DC supply** for control panels and communication systems – *Bi-monthly*

The inspection / audit is to be carried out by a **third party** and the reports submitted to the respective RPC

- In the 138th PCSC meeting All STUs expressed concern regarding the practical feasibility of implementing the third-party audit frequency of essential components as notified in the SOP.
- SRPC informed that the matter of periodic inspection/audit frequency of essential components in Islanding Schemes had been taken up with the NPC. It was further stated that till any revision of the SOP is notified by NPC, the existing frequency for third-party audit, as specified in the SOP, needs to be complied.

All Island Participating Utilities to ensure the same.

15. Monitoring of Vital Parameters for Islanding Schemes

As per the Standard Operating Procedure (SOP) for Islanding Schemes:

- Continuous monitoring of critical system parameters is essential since Island formation can occur at any time.
- The following parameters must be monitored on a real-time basis within the electrical boundary of each Island:
  - Anticipated / actual **generation**
  - Anticipated / actual **load**
  - **Voltage, frequency, and power flows** on peripheral lines that are to be tripped to form the Island
- A **dedicated SCADA page** for each Islanding Scheme is to be created in the control rooms / despatch centres (Sub-SLDCs / SLDC / RLDC / NLDC) to display these parameters. If required, **PMUs or other measuring instruments** should be installed at suitable locations.
- **RLDCs/SLDCs are to submit monthly data** in the prescribed format to RPCs certifying the healthiness of the communication system used for monitoring these parameters.

S. No.	Name of Islanding Scheme	Healthiness of Communication Channel

Deliberations:

1. SRPC informed that as per the Standard Operating Procedure (SOP) for Islanding Schemes, following parameters, within the electrical boundary of each Island, must be monitored on a real-time basis:
   - Anticipated / actual generation
   - Anticipated / actual load
   - Voltage, frequency, and power flows on peripheral lines that are to be tripped to form the Island

2. RLDC/SLDCs were requested to furnish monthly data, in the prescribed format, to SRPC certifying the healthiness of the communication system used for monitoring these parameters.

- ***SRLDC & SLDCs to furnish the healthiness certifying the Monitoring of Vital Parameters***

16. Certificate for Healthiness of Batteries

(i) As per the MoP direction, given in pursuant to recommendations of the Enquiry Committee (NEW grid disturbance on 30th & 31st July, 2012), *the monthly certificate for healthiness of batteries, installed at 220 KV and above voltage level Substations (for power supply to Relays, RTUs and PLCC equipment)* are required to be obtained by RPCs, from their respective Constituents and furnish the same to CEA/ MoP.

(ii) With reference to above, the Constituents have been requested to submit the certificate on healthiness of batteries on monthly basis (i.e. status for a month shall be sent by the 7th day of the following month) to SRPC Secretariat.

(iii) The Certificate of Healthiness of Batteries has been received from all the entities for the month of **August 2026**.

Deliberations:

1. The Certificate of Healthiness of Batteries had been received from all the entities for the month of **August 2026**.
2. SRPC requested all the entities to mention appropriate action plan, with respect to unhealthy batteries, in the monthly status of battery healthiness report.

17. Compliance by the Users of the Grid

a) Submission of Annual Audit Plans by the State embedded Users/IPPs

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

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."

Unquote

As per the above Regulations, Users (Entities/Embedded entities/IPPs connected at 220kV & above voltage level) shall furnish the annual audit plans (Internal & third party) for the next financial year to SRPC by 31st October of every year.

(ii) In the PCSC meetings, it was observed that some users especially State embedded entities/IPPs (including RE) connected at 220kV & above voltage level) have not submitted the Annual Audit Plans.

(iii) In various meetings, it was requested to SLDCs/TRANSCOs to take up with the Users (Entities/Embedded entities/IPPs connected at 220kV & above voltage level) to furnish the **Audit Plan, both Internal as well as Third party audit plan.**

(iv) Similarly, SRLDC was requested to take up with ISTS connected entities/Users (including RE) and ensure the submission of Protection Performance Indices and both audit plan.

(v) State SLDCs/TRANSCOs had been requested to take up with the respective entities to furnish the audit plan both Internal as well as Third Party audit plan for FY **2026-27**.

Recommendations:

- ***SLDCs/TRANSCOs to ensure submission of the internal & third-party audit plans by all Users (Entities/Embedded entities/IPPs connected at 220kV & above voltage level).***
- ***SRLDC to take up with ISTS connected entities/Users (including RE) and ensure submission of Protection Performance Indices as well as internal & third-party audit plans.***
- ***SLDCs/SRLDC to issue non-compliance letters to the Users (Entities/ Embedded entities/IPPs connected at 220kV & above voltage level), which are not complying with the Regulations.***

b) Submission of the Flash Report/ DR / EL / Detailed Report of the Grid Events

(i) Regulations 37(2) of IEGC 2023 envisages below:

37(2) System Security Aspects

Regulation 37(2) of Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023, all the Regional Entities of Southern Region subsequent to the incident, including the intimation, flash report, data from Disturbance Recorder (DR), Station Event Logger (EL), Data Acquisition System (DAS) and Detailed Reports are to be submitted, allowing for comprehensive analysis within defined time frames.

Sr. No.	Grid Event^ (Classification)	Flash report submission deadline (users/ SLDC)	Disturbance record and station event log submission deadline (users/ SLDC)	Detailed report and data submission deadline (users/ SLDC)	Draft report submission deadline (RLDC/ NLDC)	Discussion in protection committee meeting and final report submission deadline (RPC)
1	GI-1/GI-2	8 hours	24 hours	+7 days	+7 days	+60 days
2	Near miss event	8 hours	24 hours	+7 days	+7 days	+60 days
3	GD-1	8 hours	24 hours	+7 days	+7 days	+60 days
4	GD-2/GD-3	8 hours	24 hours	+7 days	+21 days	+60 days
5	GD-4/GD-5	8 hours	24 hours	+7 days	+30 days	+60 days

^*The classification of Grid Disturbance (GD)/Grid Incident (GI) shall be as per the* CEA Grid Standards.

(ii) In the earlier PCSC Meetings, it was decided that SRLDC to issue non-compliance notices to entities that do not follow the timelines stipulated in the IEGC regulations. SRLDC to sensitize the entities & SLDCs on the above Regulations and SRLDC to take up with the entities that have not furnished the required details/information in the specified formats and ensure that all the details of the grid event are available in

Recommendations:

- ***All the users shall adhere to the above Regulatory Provisions and the Timelines.***
- ***SRLDC to take up with the entities that had not furnished the required details/information in the specified formats and ensure that all the details of the grid event are available in the portal.***

18. Implementation of OVR gradings for 400 kV and 765 kV Transmission Lines of Southern Region (SR)

1. A comprehensive exercise for OVR grading of 400 kV and 765 kV transmission lines of the Southern Region (existing/known elements as on March 2026) has been carried out.
2. SRPC, vide mail dated 10.03.2026, circulated the draft OVR gradings for 400 kV and 765 kV Transmission Lines of Southern Region (SR).
3. After incorporating the received comments appropriately, the OVR, Stage-I gradings to be adopted for 400 kV and 765 kV lines in the Southern Region is finalized and circulated vide SRPC Letter dated 17.04.2026 enclosed at **Annexure-18** for kind implementation.
4. The OVR gradings as applicable to the respective system shall be implemented by the Constituent/ Utility concerned **with immediate effect**. Utilities concerned are requested to confirm implementation of new OVR gradings by filling the form as circulated by mail, latest by **30.04.2026.**
5. In this regard, it may be noted that the concerned utility shall update the implementation status in the above form only after successful implementation of OVR gradings for all lines under its jurisdiction.
6. The Confirmation of Revised OVR grading's is *yet to be received* from
   - APGENCO
   - TGGENCO
   - TNPGCL
   - TNGECL
   - GREENKO
   - AMGEPL
   - ADANI POWER LIMITED
   - ADANI TRANSMISSION LIMITED
   - INDIGRID
   - HNPCL
   - RE -ISTS
   - SEIL
7. The Nodal Officers of the above utilities are therefore requested to furnish the **consolidated confirmation of implementation for all applicable lines under their respective jurisdiction**, through the prescribed form, immediately.
8. Individual station-wise confirmation shall not be considered as compliance. The Nodal Officer shall furnish the confirmation only after ensuring that the revised OVR gradings

have been implemented for all applicable 400 kV and 765 kV transmission lines of the utility as per the enclosed/listed details.

Recommendations:

- ***All Constituents to confirm the implementation of revised OVR gradings***
- ***SRLDC is also requested to take up with RE-ISTS entities for Implementation of OVR gradings***

19. Submission of Static IPv4 Addresses for Whitelisting – Access to SRLDC Web Applications

In line with the deliberations held during the earlier PCSC meetings, all users/entities are requested to furnish their Static IPv4 address details at the earliest by submitting the information through the prescribed Google Form circulated through mail.

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**.**

For checking the IPv4 address, users may visit www.whatismyipaddress.com. 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.

Deliberations:

1. SRLDC informed that whitelisting of the entire system could be completed once the static IP addresses are received from all the concerned entities.
2. SRLDC further informed that, apart from a few RE entities, NTPC Simhadri is yet to furnish the static IP address required for whitelisting.
3. NTPC Simhadri informed that the matter has been taken up with its IT team and the response is awaited. NTPC Simhadri further informed that the static IP address would be furnished at the earliest.

Recommendations:

- ***All the users shall furnish the static IP address to SRLDC.***

20. Third Party Protection Audit of Stations due to severe Grid Occurrences

As per the clause 15(3) of IEGC regulations 2023

Quote

"*After analysis of any event, each RPC shall identify a list of substations / and generating stations where third-party protection audit is required to be carried out and accordingly advise the respective users to complete third party audit within three months.*"

Accordingly In line with the IEGC regulations considering severe Grid occurrences affecting the stability of Grid the following stations are recommended for Third party Protection Audit of substations through External agency and are requested to submit the Report within **90 days**.

As per the deliberations of earlier PCSC Meeting the Following stations need to complete their Third Party Protection Audit and Submit report to SRPC by 90 days

S.No	Name of station	Voltage Level	Utility	Remarks	Timeline For submission of Audit report
1	Koppal Pooling Station	400kV	Indigrid	Frequent Grid occurrences with Protection Issues observed in 141st, 142nd & 143rd PCSC Meeting	**October-26**
2	Kalpakka	400kV	APTRANSCO	Frequent Trippings of NTPC-Simhadri, Kalpakka lines affecting Generation and Protection related issues of AR operation etc observed.	**October-26**
3	Kemar	220kV	KPTCL	Frequent Tripping with unwanted protection operations leading to Generation loss of 400kV UPCL. In 143rd PCSC meeting due to incorrect operation of Kemar 600 MW Generation loss is seen.	**October-26**
4	Renigunta Sub Station	220 kV	APTRANSCO	Grid occurrences with Protection Issues observed in 144th PCSC Meeting which lead to Equipment failure, Relay failures, Relay Maloperations in the downstream network.	**November-26**
5	Pothencode Sub Station	220 kV	KSEBL	Frequent Grid occurrences with observed in 144th , 145th & 146th PCSC Meeting which is affecting the reliability of power supply to Kerala.	**December-26**

Deliberations:

1. APTRANSCO stated that they have received quotation from M/s CPRI for third party protection audit and stated that as per terms after LOI it takes 90 days for completion of work. APTRANSCO stated that they would submit the report by March 2026. SRPC requested APTRANSCO to comply the IEGC regulations and requested to submit report at earliest.
2. Indigrid stated that they will discuss with management and update in this regard.

- ***INDIGRID, KPTCL & APTRANSCO to update the Status of Third party Protection Audit***

21. Formation of Regional Cyber Security Coordination Forum (R-CSCF) for the Hydro Sector in Southern Region

Clause 53(1) & (2) of IEGC 2023 is reproduced below:

(1) The sectoral CERT (Computer Emergency Response Team) for wings of power sector, as notified by Government of India, from time to time, shall form a Cyber Security Coordination Forum with members from all concerned utilities and other statutory agencies to coordinate and deliberate on the cyber security challenges and gaps at appropriate level. A sub-committee of the same shall be formed at the regional level.

(2) The sectoral CERT shall lay down rules of procedure for carrying out their activities.

The Government of India after reviewing the needs of cyber security in the Critical Infrastructure sector, created dedicated Sectoral CERTs. As per the directives of GOI/ CERT-In, MOP has created six sectoral CERTs. Among which one is CERT-Hydro. The Nodal organisation is NHPC

As per the mail communication received from NHPC Ltd. **dated 13.08.2026** regarding the constitution of the Central Cyber Security Coordination Forum (C-CSCF) and Regional Cyber Security Coordination Forum (R-CSCF) for the Hydro Sector **(Annexure-21),** along with the relevant documents on the "Procedure for Activities of Cyber Security Coordination Forum for Hydro Sector".

TGGENCO nominated as the convener for the Southern Regional Cyber Security Coordination Forum (R-CSCF) for the Hydro Sector. In this regard, TGGENCO is requested to formulate/constitute the Regional CERT-Hydro in the Southern Region, in line with the provisions of the enclosed documents.

Deliberations:

1. SRPC highlighted that as per the communication received from NHPC TGGENCO was the nodal officer for CERT-Hydro in SR region.
2. TGGENCO stated that they have taken up the matter with concerned department and will update the same.

- ***TGGENCO to update the Status of formation of Southern Regional Cyber Security Coordination Forum (R-CSCF) for the Hydro Sector.***

22. SRLDC Agenda items

A.1 Review and Updation of AUFR and df/dt Protection Database and Operation Details

Multiple instances of AUFR operation have been observed during September 2026, particularly during periods when the system frequency reached around 49.41–49.42 Hz. The operation has not been uniform across all instances, and df/dt protection operation has also been observed in some instances. In order to facilitate detailed analysis of AUFR and df/dt protection operation and to establish a master database of AUFR and df/dt protection settings is being prepared in the form of a Google Sheet. The database is intended to capture the details of all feeders/elements covered under AUFR and df/dt schemes, including relay make, model, implemented protection settings and association with any Islanding Scheme. The information presently available with SRLDC has already been populated in the Google Sheet for reference and has been shared with the respective entities.

In this regard, all concerned utilities are requested to:

1. Verify the feeder/element list available in the master database and confirm whether all feeders/elements covered under AUFR or df/dt schemes have been included. Any omissions may be added to the database.
2. Update the relay make, model and currently implemented AUFR settings, including df/dt settings wherever applicable.
3. Indicate whether the respective feeder/element forms part of any Islanding Scheme.
4. Furnish the feeder-wise operation details of AUFR and df/dt protection for each of the following eight instances observed during September 2026:

Sl.No	UFR Operation Date and Time	Lowest Frequency as per PMU (Somanahalli) Hz
1	21-09-2026 at 18:44 Hrs	49.41
2	21-09-2026 at 18:17 Hrs	49.41
3	19-09-2026 at 18:36 Hrs	49.42
4	16-09-2026 at 18:38 Hrs	49.42
5	16-09-2026 at 18:24 Hrs	49.42
6	15-09-2026 at 18:41 Hrs	49.41
7	15-09-2026 at 18:33 Hrs	49.41
8	11-09-2026 at 18:38 Hrs	49.42

The operation details for each feeder/element, instance-wise, may kindly be updated in the same Google Sheet. In particular, the operation/non-operation of AUFR and df/dt protection during each of the above events may be clearly indicated to facilitate correlation with the system frequency and df/dt observed during the respective events.

The matter may kindly be accorded priority, as the information is required for detailed analysis of the AUFR and df/dt protection operation observed during September 2026 and for establishing a comprehensive protection master database for future reference and analysis future low frequency events.

Deliberations:

1. ED, SRLDC requested all concerned entities to furnish the required data in the sheet shared by SRLDC to facilitate maintenance and monitoring of the consolidated database.

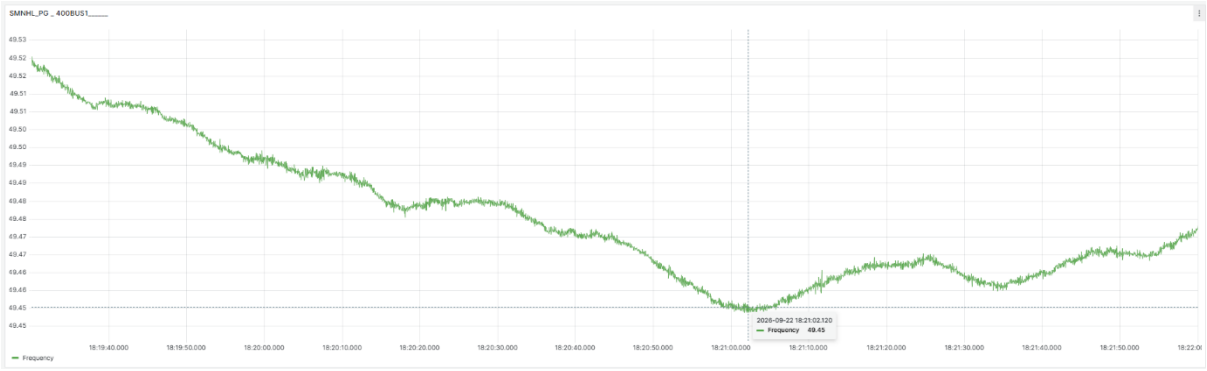
2. TGTRANSCO informed that certain relays had picked up at 49.41 Hz. It was explained that UFR operation depended on the relay pickup and dropout characteristics. Accordingly, TGTRANSCO suggested setting the UFR threshold at 49.43 Hz to improve sensitivity.
3. SE, SRPC stated that, based on earlier observations, sluggish relays that had failed to pick up at 49.40 Hz had previously been recommended for resetting to 49.41 Hz. It was further observed that changing the settings to 49.43 Hz could not be considered in isolation, as AUFR operation was an all-India phenomenon requiring coordinated implementation.
4. ED, SRLDC advised the constituents to be prepared to explain the reasons for deviations in relay performance and the observed relay operations. It was emphasized that the objective was to identify the issues, examine possible solutions and determine appropriate mitigation measures. Blanket approval for changing all relay settings to 49.41 Hz or 49.43 Hz could not be accorded without examining the technical implications and ensuring coordinated operation across the country.
5. It was suggested that the existing settings and performance of the relays should first be reviewed, particularly in cases where relays had exhibited sluggish response or failed to operate at the intended frequency threshold. Any further changes to the settings should be considered based on the actual performance of the relays.
6. TGTRANSCO informed that its field officials had been instructed to test the relays to determine their actual pickup and dropout frequencies.
7. SRLDC requested all entities to report the set points and tripping details of relay during testing
8. MS, SRPC informed the forum that, as per the IEGC Regulations, utilities were required to report every AUFR operation to SRPC and SRLDC within 24 hours, along with the relevant details.
9. MS, SRPC requested all utilities to furnish the status of implementation in accordance with the revised AUFR quantum circulated recently.

A.2 Expediting Implementation of 49.5 Hz Under-Frequency Protection for State-Owned (TGGENCO and TNGECL) PSPs

As per Regulation 29(12) of the CERC (Indian Electricity Grid Code) Regulations, 2023, Pumped Storage Hydro plants operating in pumping mode and Energy Storage Systems operating in charging mode are required to be automatically disconnected before the first stage of UFR operation. Further, as per the recommendations of the Task Force on Implementation of AUFLS and df/dt Scheme, as deliberated in the 15th Meeting of the National Power Committee (NPC), PSPs operating in pumping mode are required to be automatically disconnected at **49.5 Hz**. The said recommendation has also been recorded in the **52nd TCC and 55th SRPC meetings** and subsequently deliberated in various PCSC meetings.

However, it is observed that the stipulated **49.5 Hz under-frequency setting has not yet been implemented in the State-owned PSPs** (TGGENCO and TNGECL). An instance was observed on **22-09-2026**, when the system frequency touched **49.45 Hz at 18:21 Hrs**. During the period, Nagarjuna Sagar units were operating in pumping mode, with three units drawing approximately **204 MW**. Despite the system frequency falling below the stipulated 49.5 Hz threshold, the pumping units did not automatically disconnect. Subsequently, upon

being verbally informed by SRLDC, the pumping operation was manually stopped at **18:22 Hrs and 18:24 Hrs**.



In view of the above, the concerned State entities are requested to expedite the implementation of the 49.5 Hz under-frequency protection setting in all applicable State-owned PSPs and furnish confirmation to SRLDC/SRPC upon completion of the implementation

Deliberations:

MS, SRPC requested all utilities to implement the UFR protection for LIS at 49.5 Hz and communicate the Implementation status to SRPC and SRLDC.

A.3 Checklist for Auto Reclosing (AR) Function in internal Protection Audit

As per Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, Auto-Reclosing (AR) function is mandatory for lines of 220kV level and above. However, instances of non-operation of AR are frequently observed, few of the attributable reasons are listed below. In this regard, it is requested that all entities may include these in their internal protection audit checklist, which could improve the likelihood of successful AR operation if rectified at an earlier stage. The list may further be elaborated.

1. Breaker (CB) Healthiness
2. BCU Healthiness
3. Relay Healthiness
4. Carrier/PLCC Communication
5. AR Scheme Settings

Deliberations:

ED, SRLDC requested all utilities to include the above checklist as mandatory for internal audit checklist by the utilities.

Recommendation:

- **All utilities to include the above checks in their internal audit checklist.**

23. Sending Agenda items for the PCSC meetings

The entities are requested to furnish the agenda, if any, to deliberate in the ensuing monthly PCSC meeting by 25th of the preceding month to SRPC.

24. Date & Venue of next PCSC meeting

Date & Venue of 148th PCSC meeting would be informed in due course.

25. Conclusion

MS, SRPC, thanked all members for their active participation and emphasized the need for continued interaction and knowledge-sharing within the forum to facilitate mutual learning and improvement in protection practices. He expressed hope that the discussions and deliberations would contribute to strengthening the power system and urged all concerned entities to ensure effective implementation of the decisions and remedial measures finalized during the meeting.

Shri Neelakantam SE, TGTRANSCO contribution to SR grid especially on Protection and in the sector was place on record by the forum as he was superannuating.

On behalf of the forum, he conveyed sincere gratitude to NTECL for graciously hosting the 147th PCSC Meeting at Mahabalipuram and for extending excellent hospitality and taking care of all participants.

Shri Neelakantam SE, TGTRANSCO: - expressed gratitude to NTECL, on behalf of the SRPC forum, for hosting the 147th Protection Coordination Sub-Committee (PCSC) Meeting. He appreciated the excellent accommodation, infrastructure, hospitality and overall meeting arrangements, including the maintenance of decorum throughout the proceedings. He expressed hope that all constituent members would cherish the experience and retain fond memories of the meeting.

He also conveyed his gratitude to the forum and informed the members that this was his last physical PCSC meeting before superannuation. He thanked all members for their cooperation and support.

Shri K Murganandam, EE TANTRANSCO: - appreciated NTECL for the professional management and excellent coordination of the arrangements for the 147th PCSC Meeting. He noted that all arrangements, including transportation, accommodation and local visits, had been handled efficiently and seamlessly. On behalf of the Protection Coordination Forum, he conveyed his sincere appreciation and gratitude to NTECL for its hospitality and support.

Smt Malini N S, Superintending Engineer (P&C), SRPC, reiterated that meetings of this nature strengthened the understanding that, beyond individual designations, organizations and responsibilities, all participants belonged to one power-system community working towards the common objective of ensuring a secure, reliable and resilient grid. She encouraged the participants to switch from “Protection Mode” to “Mahabalipuram Exploration Mode” after the technical deliberations.

She concluded by thanking all participants and conveying special appreciation to NTECL for the excellent arrangements and hospitality extended throughout the meeting.

Shri Brajesh Kumar Pandey, AGM (EMD) NTECL: expressed his sincere gratitude to all participants at the conclusion of the 147th Protection Coordination Sub-Committee (PCSC) Meeting held at Mahabalipuram.

He thanked Member Secretary, SRPC, for steering the deliberations effectively and providing clear direction during the discussions. He also appreciated the SRPC team for ensuring that the critical issues relating to grid protection and tripping were examined thoroughly.

He conveyed his appreciation to Executive Director, SRLDC, and the SRLDC team for their efforts in real-time grid monitoring, fault analysis and timely compliance reporting.

He also thanked all participants, system operators and protection engineers from the generating companies, transmission utilities and State Load Despatch Centres (SLDCs) across the Southern Region for their active participation, valuable data sharing and constructive inputs, which were essential for maintaining grid security.

Concluding his remarks, he once again thanked all participants for their contributions and expressed appreciation for their continued cooperation in strengthening protection practices and ensuring secure and reliable grid operation.

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