

भारतसरकार
केंद्रीय विद्युत प्राधिकरण
दक्षिण क्षेत्रीय विद्युत समिति
29, रेस कोर्स क्रॉस रोड
बेंगलुरु-560 009



Government of India
Central Electricity Authority
Southern Regional Power
Committee
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सं/No.SRPC/SE (PC&SS)/146PCSC/2026/3985-4031

दिनांक /Date 28th August 2026

To,

संलग्न सूची के अनुसार
As per attached List

विषय: 07 सितंबर, 2026 को होने वाली प्रोटेक्शन कोऑर्डिनेशन सब-कमेटी (PCSC-146) की 146वीं बैठक का एजेंडा।

Sub: Agenda for the 146th Meeting of Protection Coordination Sub-Committee (PCSC-146) to be held on 07th September, 2026.

महोदय/महोदया/ Sir/ Madam,

यह सूचित किया जाता है कि 07 सितंबर, 2026 को सुबह 10:00 बजे वीडियो कॉन्फ्रेंसिंग (VC) के माध्यम से होने वाली प्रोटेक्शन कोऑर्डिनेशन सब-कमेटी (PCSC) की 146वीं बैठक का एजेंडा SRPC की वेबसाइट (<http://www.srpc.gov.in>) पर अपलोड कर दिया गया है।

It is informed that the agenda for the 146th Meeting of Protection Coordination Sub Committee (PCSC) scheduled to be held on 07th September, 2026 at 10:00hrs through VC, is uploaded on the SRPC Website (<http://www.srpc.gov.in>).

संरक्षण समन्वय उप-समिति के सदस्यों/नामित व्यक्तियों से अनुरोध है कि वे पीसीएससी-146 की बैठक में उपस्थित होने की सुविधा प्रदान करें।

The Protection Coordination Sub-Committee Members / Nominees are requested to kindly make it convenient to attend the PCSC-146 meeting.

धन्यवाद / Thanking You,

भवदीय/Yours faithfully,

for

28/08/26

अधीक्षक अभियंता (पीसी&एसएस)/ Superintending Engineer (PC&SS)

डाक-सूची/ Mailing List

1. मुख्यअभियंता (एचपीसीवजलपरियोजना) एपीजेनको, 4 वी मंजिल, गुणदल, विजयवाडाआं 520004/ Chief Engineer (Generation), APGENCO, 4th Floor, Vidyut Soudha, Eluru Road, Gunadala, Vijayawada, AP – 520004
2. मुख्यअभियंता (परियोजना), एपीजेनको, 4वीमंजिल, गुणदल, विजयवाडाआं 520004 / Chief Engineer (Projects), APGENCO, 4th Floor, Vidyut Soudha, Eluru Road, Gunadala, Vijayawada, AP – 520004
3. मुख्यअभियंता(आईपीसीवविद्युतप्रणाली), एपीट्रान्स्को, 3रीमंजिल, गुणदल, विजयवाडाआं 520004 / Chief Engineer (IPC & Power Systems), APTRANSCO, 3rd Floor, Vidyut Soudha, Eluru Road, Gunadala, Vijayawada, AP-520 004
4. श्री के लिंगमूर्ती, महा प्रबंधक (QC & Planning), एपीसीपीडीसीएल, विजयवाडा / Sh. K Linga Murthy, General Manager (QC & Planning), APCPDCL, Vijayawada
5. मुख्यअभियंता (इले. डिजाइन), केपीसीएल, बेंगलूर/ Chief Engineer (Ele. Designs), KPCL, Bangalore
6. मुख्य अभियंता (आरटी और आर & डी), केपीटीसीएल, बेंगलूर/ Chief Engineer (RT and R&D), KPTCL, Bangalore
7. मुख्यअभियंता (एम.टी.एस), टैनजोडको पैन्ने/ Chief Engineer (MTS), TANGEDCO, Chennai (Fax No: 044-28585804)
8. मुख्य अभियंता (जलविद्युत) टैनजोडको चैन्नै/ Chief Engineer (Hydro), TANGEDCO, Chennai (Fax No: 044-28553356)
9. मुख्यअभियंता (संरक्षणएवंसंचार), टीएनईबी, चेन्नै/ Chief Engineer (Protection & Communication), TANTRANSCO, Chennai
10. मुख्यअभियंता (पारेषण) प्रणालीप्रचालन, एचएमटीकालोनी, केएसईबी, कलमस्सेरी-683503/ Chief Engineer (Transmission) System Operation, HMT Colony, KSEB, Kalamassery-683503
11. मुख्य अभियंता (उत्पादन), टीएसजेनको, हैदराबाद/ Chief Engineer (Generation), TGGENCO Hyderabad
12. मुख्य अभियंता (परियोजना), टीएसजेनको, हैदराबाद / Chief Engineer (Projects), TGGENCO Hyderabad
13. मुख्य अभियंता (विद्युतप्रणाली), टीएसट्रान्स्को, हैदराबाद / Chief Engineer (Power System), TGTRANSCO, Hyderabad
14. श्री पी आनंद, मुख्य महा प्रबंधक, आर आर जोन, टीएसएसपीडीसीएल, हैदराबाद / Shri. P. Anand, Chief General Manager, RR Zone, TGSPDCL, Hyderabad.
15. अधीक्षक अभियंता-1, विद्युतविभाग 137, एनएससीबोससाले, पुदुचेरी- 605001 / Superintending Engineer 1, Electricity Department, 137, NSC Bose Salai, Puducherry-605001
16. महाप्रबंधक (ओएस), एनटीपीसी, दक्षिणक्षेत्रीयमुख्यालय, सिकंदराबाद / General Manager (OS), NTPC SRHQ, Secunderabad
17. मुख्यमहाप्रबंधक टीपीएस- विस्तार, एनएलसीआईएल जैवेली / 607807 - Chief General Manager, TPS 1 Expn. NLCIL, Neyveli-607807 (Fax No: 04142-265303)
18. मुख्यअभियंता (पारेषण) एनपीसीआईएल, मुंबई Chief Engineer (Transmission), NPCIL, Mumbai.
19. केंद्रनिदेशक, केजीएस, कैगा, कर्नाटक/ Station Director, KGS, Kaiga, Karnataka
20. केंद्रनिदेशक, एमएपीएस, कल्पक्कम / Station Director, MAPS, Kalpakkam
21. केंद्रनिदेशक, केकेएनपीपी, तिरुनल्वेली जिला, तमिलनाडु - 627106/ Station Director, KKNPP, Tirunelveli Dist, TamilNadu-627106
22. श्रीअनिलकुमार, एजीएम (ईएमडी), एनटीईसीएल, चेन्नै- 103/ Sh. Anil Kumar, AGM (EM), NTECL, Vallur, Tamil Nadu.
23. श्रीएमप्रभाकर, महाप्रबंधक (प्रवअ), एनटीपीएल, हार्बरएस्टेट, तूतुकुडी 628004 / Sh. M. Prabhakar, GM (O&M), NTPL, Harbour Estate, Tuticorin – 628004
24. जीएम (प्रचावअनु) दक्षे, पावरग्रिड सिकंदराबाद / GM (O&M), SR-I, PGCIL, Secunderabad
25. जीएम (प्रचावअनु) दक्षे-II, पावरग्रिड, बेंगलूर GM (O&M), SR-II, PGCIL, Bengaluru
26. Sh.Sourov Chakraborty, Sr. GM, CTU, Plot No. 2, Sector-29, Gurugram, Haryana-122 001.
27. श्री चंद्रशेखर रेड्डी, डीजीएम, इलेक्ट्रिकल मेंटेनेंस, मेसर्स जेएसडब्ल्यू एनर्जी लिमिटेड, तोरणगल्लु, बल्लारी- 583275/ Sh. Chandrashekar Reddy, DGM, Electrical Maintenance, M/s JSW Energy Ltd, Toranagallu, Bellary-583275
28. श्री आशीष वाविस्कर, सह महाप्रबंधकयूपीसीएल, बेंगलूर Sh. Ashish Baviskar, Associate General Manager, UPCL, Bangalore

29. प्रधानविद्युतएवंसीआईअनुरक्षण, एसईआईएल, प्यानपुरम / नेलतूरुग्राम, मुतुकूरमंडल, एसपीएस आरनेल्लूर- 524344/ Head Electrical and C&I Maintenance, SEIL, Pyanampuram / Nelaturu Village Muthukur Mandal, SPSR Nellore 524344
30. श्री. के बालमुरगन, रखरखाव प्रमुख, आईएलवएफएस, टीपीसीएल, सीपदुपेटैडाक, परनगीपेट्टे, भुवनगिरिताल्लूक, कुडलूरजिला, तमिलनाडु 608502/ Sh. K Balamurugan, Maintenance Head, IL&FS Tamilnadu Power Company Ltd., C.Pudhupettai (post), Parnagipettai, Bhuvanagiri Taluk, Cuddalore Dist, Tamilnadu- 608502
31. श्री सी रामकृष्ण, एजीएम (ऑपरेशन), हिंदुजाएनपीसीएल, पेटगंट्यडमंडल, विशाखपट्टनम, आप 530031 / Sh. C Ramakrishna, AGM (Operations), Hinduja NPCL, Pedagantyada Mandal, Visakhapatnam, AP – 530031.
32. श्री विवेक कार्तिकेयन सहायक महाप्रबंधक, महेश्वरम ट्रांसमिशन लिमिटेड (एमटीएल), 101, विंडसर, सीएसटी रोड, सांताक्रूज़ ईस्ट, मुंबई 400098/ Sh. Vivek Karthikeyan Assistant General Manager, Maheshwaram Transmission Limited (MTL), 101, Windsor, CST Road, Santacruz East, Mumbai 400098
33. निदेशक (जीएम), केविप्रा, नईदिल्ली / Director (GM Division), CEA, New Delhi
34. निदेशक (एनपीसीप्रभाग), केविप्रा, नईदिल्ली / Director (NPC Division), CEA, New Delhi
35. कार्यकारीनिदेशक, पोसोको, एसआरएलडीसी, बेंगलूर Executive Director, SRLDC, Grid-India, Bengaluru
36. Manager, Electrical-HOD, SEPC Power Plant, Harbour Estate, VOC Road, Thoothukudi, Tamil Nadu– 628 004
37. Technical Services Superintendent, Prototype Fast Breeder Reactor Project, BHAVINI, Kalpakkam 603 102
38. सहायक महाप्रबंधक, महेश्वरम ट्रांसमिशन कर्पी षलषमटेड, मबई/ Head Regulatory, Adhani Energy Solutions Ltd., Ahmedabad
39. वररष्ठिषदेशक , एएमपीआईएिजीमाकटसइषडयाप्राइवेटषलषमटेड/ Senior Director , AMPIN Energy Markets India Pvt. Ltd.
40. मुख्य महाप्रबंधक, संचालन एवं अनुरक्षण, ए.पी.एस.पी.डी.सी.एल., तिरुपति / Chief General Manager, O&M, APSPDCL, Tirupati
41. निदेशक) तकनीकी(, टी.एन.जी.ई.सी.एल., चेन्नई / Director (Technical), TNGECL, Chennai
42. श्री केराजू चौलहान ., मुख्य अभियंता -संचालन)II), टीजीएनपीडीसीएल /Sri K. Raju Chowhan, Chief Engineer (Operation-II), TGPNDCL
43. श्री एल. पांड्या, मुख्य अभियंता / आरआर ज़ोन / टीजीएसपीडीसीएल, मीसेवा बिल्डिंग, मंजीरा मॉल के पीछे, केपीएचबी कॉलोनी, फेज-II, हैदराबाद – 500072 / Sri. L. Pandya, CE/RR Zone/TGSPDCL, MeeSeva Building, Backside of Manjeera Mall, KPHB Colony, Phase-II, Hyderabad – 500072
44. श्री रवीन्द्र वल्लूरु, मुख्य महाप्रबंधक, ग्रीनको ग्रुप, हाईटेक सिटी लेआउट, माधापुर, हैदराबाद - 500081, तेलंगाना / Raveendra Valluru, Chief General Manager, Greenko Group, Hitech City Layout, Madhapur, Hyderabad – 500081, Telangana.
45. श्री रविन्द्र नारायण टी., मुख्य महाप्रबंधक, ग्रीनको ग्रुप, हाईटेक सिटी लेआउट, माधापुर, हैदराबाद – 500081, तेलंगाना / Ravindra Narayana T., Chief General Manager, Greenko Group, Hitech City Layout, Madhapur, Hyderabad – 500081, Telangana.
46. महाप्रबंधक (स्टेट लीड-एसेट मैनेजमेंट), रिन्यू पावर प्राइवेट लिमिटेड, गुरुग्राम / GM (State Lead-Asset Management), Renew Power Private Limited, Gurugram (manjunatha.h@renew.com, padmanava.swain@renew.com)
47. मेसर्स सुज़लॉन एनर्जी लिमिटेड, नई दिल्ली / M/s Suzlon Energy Limited, New Delhi

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SOUTHERN REGIONAL POWER COMMITTEE

BENGALURU

Agenda for the 146th Meeting of Protection Coordination Sub- Committee of SRPC scheduled on 07.09.2026 through VC.

1. Introduction

The 146th Meeting of the Protection Coordination Sub-Committee of SRPC is scheduled to be held on 07th September 2026 at 10:00 AM through VC.

2. Confirmation of Minutes of last PCSC meeting

Minutes of 145th Protection Coordination Sub-Committee meeting held on 07th August 2026 was issued vide letter No:SRPC/SE (P, C & SS)/145PCSC/2026/ 3935-81 dated 27th August 2026.

Minutes of the Meeting may be confirmed.

3. Grid Occurrences

Grid Occurrences which took place during the period **July 2026 – August 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
PGCIL SR-2 / KPTCL	I.1
SPRING_PUGALUR	I.2
GREENKO	I.3
RENEW POWER PVT LTD	I.4
PGCIL SR-1 / RENEW POWER PVT LTD	I.5
APTRANSCO	I.6, I.8
PED	I.7
KPTCL	I.9

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
RENEW POWER PVT LTD	II.1, II.5, II.6, II.7
GREENKO	II.2, II.3
PGCIL SR-1	II.4, II.12
KSEB	II.8, II.10
TGTRANSCO	II.9
NTPC_SIMHADRI	II.11

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
TGTRANSCO	III.1
GREENKO	III.2
APGENCO / TGTRANSCO	III.3
PGCIL SR-1 / RENEW POWER PVT LTD	III.4
HINDUJA	III.5
APTRANSCO / PGCIL SR-1	III.6, III.9
KPTCL	III.7, III.10, III.13
PGCIL SR-1	III.8
TGGENCO	III.11
PGCIL SR-2	III.12

- 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 **02.09.2026** (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 **02.09.2026** 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
APTRANSCO	IV.1, IV.6, IV.7
TGTRANSCO	IV.2, IV.9
KPTCL	IV.3
TANTRANSCO	IV.4, IV.5, IV.8

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
APGENCO	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
TGGENCO	VI.1, VI.23
KPTCL	VI.2, VI.3, VI.4, VI.13, VI.15, VI.20, VI.21, VI.26, VI.27, VI.28, VI.30, VI.31
RENEW POWER PVT LTD	VI.5, VI.6, VI.8
APGENCO	VI.7
PGCIL SR-2	VI.9, VI.14, VI.19
KSEB	VI.10, VI.12
APTRANSCO	VI.11, VI.17, VI.22, VI.24
TANTRANSCO	VI.16, VI.25
NLC	VI.18
ADANI_APL	VI.29

- 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 **02.09.2026**.*

4. Status of Implementation of Pending Recommendations of PCSC

- The status of implementation of PCSC recommendations (**up to 145th PCSC meeting**), have been updated in P-REC Module in PMS suite. List of pending recommendations is at **Annexure-4a**.
- The latest status on the same may please be sent by **02.09.2026**, to place the same before the sub-committee.
- 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 **143rd to 145th** PCSC meeting would be deliberated in the meeting. Details are at **Annexure -4b**.

✚ **Entities to update/furnish the status action plan on the PCSC recommendations i.r.o Grid Occurrences analysed in the 143rd to 145th PCSC Meetings, through PMS portal.**

✚ **Status of the Recommendations that were not complied/updated in the PMS portal would be deliberated in the meeting.**

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 10.08.2026 to 09.09.2026 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

✚ **All entities shall plan the protection system related outages on monthly basis in advance and furnish the same for approval of PCSC.**

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:

PSSG Meeting / Group deliberations			
S No.	Proposal	Proposed Entity	Meeting Date
1	Relay Setting Approval for AMPIN ENERGY C&I TWELVE PRIVATE LIMITED_100 MW Solar Project_C&I_connecting to Kurnool-III PS(ISTS POI)	M/s AMPIN Energy	05.08.2026
Observations/Views Received: <i>PSSG in the group chat held on 05.08.2026 has analysed the proposed settings furnished by M/s AMPIN Energy and concluded that it may implement in compliance with the SR Protection Protocol with following recommendations</i> Observations on 220kV AMPIN ENERGY - KURNOOL III(PGCIL) <i>PSSG had concluded that it may implement in compliance with the SR Protection Protocol with following recommendations and suggestions.</i> <u>1. 220kV AMPIN ENERGY End</u> PSSG had recommended the following: 1. Ensure that all zone setting calculations are carried out in accordance with remote end utility i.e PGCIL philosophy. 2. Load Blinder to be enabled in relay. If not enabled the Resistive reach (ph-ph) shall be less than the minimum load encroachment resistance. 3. Enable Zone-1 tripping in case of communication failure in the line differential protection scheme. 4. SOTF shall be enabled with Impedance function and breaker close command with Zone reach limited to Zone-2. 5. Time of SOTF function active status after breaker closed in impedance mode may be set to 0.2s. 6. Time delay for SOTF operation shall be kept as instantaneous 7. OVR stage-1 shall be disabled for 220kV transmission line 8. Load encroachment protection shall be enabled with appropriate load angle settings, and the load impedance shall be calculated as per the RK Committee recommendations. 9. During VT fuse failure, non-directional overcurrent and Earth Fault protection shall be enabled and distance protection shall be blocked. 10. For DEF protection, the operating time shall be coordinated with Zone-3 timing for a remote-end bus fault, considering fault current contribution from station end based on system studies. 11. Broken conductor protection shall be enabled for alarm only, with a time delay of 20 seconds, and shall operate when the Negative Sequence current to Positive Sequence current ratio (I_2/I_1) is greater than or equal to 0.2 (i.e., $I_2/I_1 \geq 0.2$). 12. Enable the Pole discrepancy time setting for main Circuit breaker with a time delay of 1.5s. 13. Communication scheme shall be enabled with POR Scheme.			

14. 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.
15. Under frequency and under voltage trip for lines shall be disabled.
16. PMU shall be available at the station.
17. 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).
18. Two high tension (HT) supplies (11kV / 33kV) 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.

PSSG had suggested:

1. Zone-4 time delay shall be graded with Zone-2 time delay.

2. 120 MVA PTR-1 220kV/33kV AT AMPIN ENERGY END

PSSG had recommended the following:

1. Cross block setting shall be enabled with cross blocking mode (1 out of 3)
2. The time delay for High set overcurrent and earth fault shall be set to 50ms.
3. REF setting shall be enabled with a proper setting calculation in case of Low Impedance with OEM recommended Slopes and In case of High Impedance with Suitable stabilization resistor giving sufficient voltage margin for calculation.
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. Overfluxing settings shall be set in accordance with the Manufacturer Overflux curve.
7. 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 over head lines, shall be enabled with the appropriate settings
8. HV Standby Earth fault non directional overcurrent Protection shall be disabled.
9. LV Standby Earth fault non directional overcurrent Protection shall be disabled.

3. 220kV BUS COUPLER AT AMPIN ENERGY END

PSSG had recommended the following:

1. Disable the earth fault protection.
2. Overcurrent protection shall be enabled with pick up 2In and with definite time delay of 2sec.

4. 220kV BUS BAR AT AMPIN ENERGY END

PSSG had recommended the following:

1. OCT operating level shall be enable with a 20% of maximum load current.

2	125 MVAR, 420 kV Bus Reactor-1 & 2 of YTPS (5X800MW) -TGGENCO - Submission of Protection Relay Settings for Approval	TGGENCO	05.08.2026
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Observations/Views Received:

PSSG in the group chat held on 05.08.2026 has analysed the proposed settings furnished by TGGENCO and concluded that it may implement in compliance with the SR Protection Protocol with following recommendations

Observations on 400kV YADADRI TPS

1. 125 MVAR 400kV BUS REACTOR AT YADADRI TPS END

PSSG had recommended the following:

1. Backup Impedance delay to be kept as 1 sec.
2. Buchholz, WTI, OTI, MOG with low oil level alarm need to be enabled.

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

- Mr Varun S, varun.s@prdcinfotech.com
- Mr Preetham, preetham.gowda@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.

✚ ***PCSC forum may review & approve the above proposed protection settings and the respective PSSG Recommendations.***

✚ ***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 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. The following Entities are yet to submit the Internal Audit Plans.

Indigrid	NLC TS-1 EXP	WKTL
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3. All RE ISTS entities are requested to immediately update Internal Audit Plan for FY 2026-27 through Zoho Forms as sent by mail

4. The Following RE ISTS entities are yet to submit the Internal Audit Plan for 2026-27.

S. No	RE Entity	Total Stations (220kV & above)	Internal Plan Audit Furnishing status
1	KSPDCL	8	Yes ✓
2	JSW - RE	5	Yes ✓
3	GREENKO	4	Yes ✓
4	Serentica Renewables India Pvt Ltd	4	No ✗
5	RENEW	4	Yes ✓
6	APSPCL	5	Yes ✓
7	Arcelor Mittal Green Energy Pvt Ltd (AMGEPL)	2	Yes ✓

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

- ✚ **All RE-ISTS entities are requested to furnish the Internal Audit Plans for 2026-27 Immediately**
- ✚ **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	22	1	19	0
TANTRANSCO	43	28	41	9
KPTCL	46	41	46	5
APTRANSCO	42	11	43	8
KSEBL	12	0	15	3
PED	0	0	1	0
PGCIL SR I	6	6	6	2
PGCIL SR II	8	8	9	4
TOTAL	180	95	180	31

Internal Audit reports of Genco's

Name of utility	Q1		Q2	
	No of stations scheduled	Reports received	No of stations scheduled	Reports received
APGENCO	0	0	8	4
TGGENCO	0	0	1	0
KPCL	0	0	0	0
TNPGCL	2	2	1	0
TNGECL	0	0	0	0
NLCIL	0	0	2	0
STPP	1	0	0	0
NTECL	0	0	0	0
NTPL	0	0	0	0
APSPCL	0	0	0	0
BHAVINI	0	0	1	0
KSPDCL	0	0	0	0
NTPC	0	0	0	0
NPCIL	0	0	0	0
TOTAL	3	2	13	4

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
WCTL	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
TOTAL	9	6	6	1

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 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-9a**), issued the schedule to carry out Third Party Protection Audit through SRPC Coordination for FY 2026-27 (**Annexure-9b**). 121 number of Substations in the Region for the period April 2026 - March 2027 as mentioned in the Annexure-9b 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.**

4. All RE –ISTS entities to submit the Third party Audit plans in the above Google sheet link

- ✚ *All Nodal officers and the audit team members are requested to take measures on immediate basis for initiating the process for the audits scheduled for the period of April 2026 to March 2027.*
- ✚ *All team members of the respective audit team of the Station may coordinate with the respective nodal officers of the station and other team members for carrying out the audit.*

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 **July 2026** are **pending from the following entities:**

ADANI ATL	AMGEPL	Ayana Renewable Power Six Pvt Ltd	BETAMWIND
BHAVINI	GREENINFRA	HIRIYUR ZREPL	ILFS
INDIGRID	KPTCL	KSEB	KSPDCL
LKPPL	MYTRAH	NLC	NPCIL MAPS
NTPC	NTPC RSTPS	NTPC TESTPP	ORANGE
PGCIL SR-1	PVG_JSW Renew Twenty Ltd	RENEW POWER PVT LTD	SAEL
SCCL	SEIL	SEPC	SEPL
TNGECL	TNPGCL		

3. The consolidated details of protection performance indices received from the entities for the months of July 2026 are at **Annexure 10a**. 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 July 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. **KSEBL to present on the PPI findings in the 146th 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 July 2026 is as below. SRLDC is requested to give clarification on the variations in Classification report and action taken by the entities.

S.NO	ELEMENT NAME	TRIPPING DATE	TRIPPING TIME	SENDING END			RECEIVING END		
				USER	USER TRIPPING CLASSIFICATION	SRLDC TRIPPING CLASSIFICATION	USER	USER TRIPPING CLASSIFICATION	SRLDC TRIPPING CLASSIFICATION
1	220KV-PAVAGADA_PG-IRCON_PVG_S-1	03-07-2026	10:26	PGCIL SR-2	Correct Operation	Correct Operation	PVG_IRCONS	Correct Operation	Unwanted Operation
2	230KV-HYUNDAI-SRIPERUMBADUR_TN-1	05-07-2026	10:34	TANTRA NSCO	Correct Operation	Failure Operation	TANTRANSCO	Correct Operation	Correct Operation
3	220KV-SRISAILAM_RIGHT_BANK-DINDI-1	05-07-2026	19:43	APGENCO	Correct Operation	Failure Operation	TGTRANSCO	Correct Operation	Correct Operation
4	230KV-GUMMIDIPOONDI-NCTPS-1	08-07-2026	07:20	TANTRA NSCO	Correct Operation	Failure Operation	TNPGCL	Correct Operation	Failure Operation
5	230KV-NCTPS-SRIPERUMBADUR_TN-1	08-07-2026	07:20	TNPGCL	Correct Operation	Failure Operation	TANTRANSCO	Correct Operation	Correct Operation
6	220KV-HIRIYUR_OSTRO-HIRIYUR-1	08-07-2026	17:00	OSTROKANNA DA	Correct Operation	Failure Operation	PGCIL SR-2	Failure Operation	Correct Operation
7	400KV/230KV NNTTP-ICT-1	10-07-2026	13:02	NLC	Correct Operation	Unwanted Operation			
8	400KV/230KV SALEM_TN-ICT-2	12-07-2026	06:56	TANTRA NSCO	Correct Operation	Unwanted Operation			
9	400KV-NAGARJUNAS AGAR PG-	12-07-2026	20:08	PGCIL SR-1	Correct Operation	Failure Operation	NTPC RSTPS	Correct Operation	Correct Operation

	RAMAGUNDA M-2								
10	400KV- SEIL_P2-NPS-1	13-07- 2026	13:15	SEIL	Correct Operation	Failure Operation	PGCIL SR-1	Correct Operation	Failure Operation
11	400KV/220KV TALGUPPA- ICT-3	14-07- 2026	08:40	KPTCL	Correct Operation	Unwanted Operation			
12	400KV/220KV TALGUPPA- ICT-3	14-07- 2026	13:12	KPTCL	Correct Operation	Unwanted Operation			
13	400KV- VELLALVIDU THI- KARAIKUDI-1	14-07- 2026	14:54	TANTRA NSCO	Correct Operation	Failure Operation	PGCIL SR-2	Correct Operation	Correct Operation
14	220KV- UDUMALPET- Pallivasal-1	15-07- 2026	11:06	TANTRA NSCO	Correct Operation	Correct Operation	KSEB	Correct Operation	Failure Operation
15	400KV/110KV MANALI-ICT-1	15-07- 2026	22:45	TANTRA NSCO	Correct Operation	Unwanted Operation			
16	400KV- ATP_RenewVyo man- ATP_RenewVyo man_PSS2-1	17-07- 2026	17:46	RENEW POWER PVT LTD	Correct Operation	Correct Operation	RENE W POWE R PVT LTD	Correct Operation	Unwanted Operation
17	400KV- NELAMANGAL A-TALGUPPA-1	19-07- 2026	12:48	KPTCL	Correct Operation	Correct Operation	KPTCL	Correct Operation	Failure Operation
18	400KV-MEPL- SEPL-1	19-07- 2026	14:36	MEPL		Correct Operation	SEPL	Correct Operation	Unwanted Operation
19	400KV- CUDDAPAH- CHITTOOR-1	20-07- 2026	13:16	PGCIL SR-1	Unwanted Operation	Correct Operation	APTRA NSCO	Unwanted Operation	Unwanted Operation
20	220KV- MYSORE- HOOTAGALLI- 1	22-07- 2026	16:23	PGCIL SR-2	Correct Operation	Correct Operation	KPTCL	Correct Operation	Unwanted Operation
21	220KV- MYSORE- KADAKOLA-1	22-07- 2026	16:23	PGCIL SR-2	Correct Operation	Unwanted Operation	KPTCL	Correct Operation	Correct Operation
22	220KV- MYSORE- HOOTAGALLI- 2	22-07- 2026	16:23	PGCIL SR-2	Unwanted Operation	Correct Operation	KPTCL	Correct Operation	Correct Operation
23	220KV- KADAKOLA- KANIYAMPET TA	22-07- 2026	16:33	KPTCL	Correct Operation	Failure Operation	KSEB	Failure Operation	Correct Operation
24	220KV- CHILLAKALLU -SURYAPET-1	23-07- 2026	21:48	APTRAN SCO	Correct Operation	Unwanted Operation	TGTRA NSCO	Failure Operation	Failure Operation

25	400KV- GREENKO_CPS S- GREENKO_PSP -2	26-07- 2026	01:46	GREENK O	Correct Operation	Correct Operation	GREEN KO	Unwanted Operation	Correct Operation
26	400KV- GREENKO_CPS S- GREENKO_PSP -1	26-07- 2026	19:13	GREENK O	Correct Operation	Correct Operation	GREEN KO	Correct Operation	Unwanted Operation
27	400KV- GREENKO_CPS S- GREENKO_PSP -2	26-07- 2026	19:13	GREENK O	Correct Operation	Correct Operation	GREEN KO	Correct Operation	Unwanted Operation
28	220KV- ASUPAKA- LOWER_SILER U-1	30-07- 2026	15:10	TGTRAN SCO	Correct Operation	Unwanted Operation	APGEN CO	Correct Operation	Unwanted Operation
29	400KV- ANANTHPURA M- ATP_RenewVyo man-1	31-07- 2026	23:31	PGCIL SR-1	Correct Operation	Unwanted Operation	RENE W POWE R PVT LTD	Unwanted Operation	Correct Operation
30	400KV/33KV ATP_RenewVyo man-ICT-2	31-07- 2026	23:31	RENEW POWER PVT LTD		Correct Operation			
31	400KV- ATP_RenewVyo man- ATP_RenewVyo man_PSS2-1	31-07- 2026	23:31	RENEW POWER PVT LTD	Correct Operation	Correct Operation	RENE W POWE R PVT LTD	Failure Operation	Unwanted Operation

✚ **SRLDC & SLDC shall verify the tripping details submitted by the entities against real-time SCADA data.**

✚ **Any discrepancies observed during verification shall be reported to PCSC in subsequent meetings.**

✚ **All entities to furnish the protection performance indices for the month of July 2026.**

✚ **KSEBL to present on the PPI findings in the 146th PCSC Meeting.**

✚ **Non-compliance of the IEGC Regulations/Protection Protocol of SR by some entities to be deliberated. SRLDC to take up with ISTS connected entities (including RE) and ensure the submission of Protection Performance Indices. SLDC/TRANSCOs to ensure submission of the Protection Performance Indices of all State embedded entities.**

✚ **REMC/SRLDC to take up with ISTS connected entities (including RE) and ensure the submission of Protection Performance Indices.**

✚ **The protection performance indices received for the month of July 2026 to be reviewed.**

10. Status of Islanding Schemes Reviewed during 2025-26

1. Monitoring of Islanding Schemes by SLDCs/SRLDC

- 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:

- Anticipated/ actual Generation within the electrical boundary of the Island.
- Anticipated/ actual Load within the electrical boundary of the Island.
- 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.”

- 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

- 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.

- SRLDC, vide mail dated **26.08.2026**, furnished the Monthly Islanding data which is illustrated below. The Islanding Plots furnished by SRLDC is at **Annexure-12:**

Island	Bangalore	Chennai	Hyderabad	Kudankulam	Neyveli	Vijayawada	Visakhapatnam
Peak Load Generation	2528	2303	5681	6742	3717	1854	2818
Peak Load	4130	2779	35123	10347	4333	2652	2256
Peak Load Time	7/2/2026 13:16	7/16/2026 22:06	7/16/2026 7:40	7/29/2026 22:07	7/24/2026 7:06	7/13/2026 22:23	7/13/2026 21:52
Off Peak Generation	2484	2157	5097	4486	3512	1430	1620
Off Peak Load	1879	1474	2813	1748	1459	1420	1190
Off Peak Load Time	7/22/2026 13:54	7/5/2026 10:38	7/27/2026 2:12	7/26/2026 12:02	7/5/2026 13:55	7/4/2026 15:56	7/5/2026 12:31
Maximum Generation	4937	3334	5953	7003	5367	2123	3442
Load at Maximum Generation	3461	1898	4756	9749	3637	1728	2102
Maximum Generation Time	7/28/2026 7:38	7/28/2026 5:16	7/22/2026 7:23	7/31/2026 20:27	7/18/2026 19:24	7/1/2026 6:03	7/11/2026 22:20
Average Generation	3069	2392	4219	4937	3939	1549	2439
Average Load	3201	2162	4442	6215	3093	1936	1696
Maximum SR RE time	7/13/2026 13:51	7/13/2026 13:51	7/13/2026 13:51	7/13/2026 13:51	7/13/2026 13:51	7/13/2026 13:51	7/13/2026 13:51
RE Max Gen	2483	2157	2632	3418	3338	1347	1769
RE Max Load	3708	2017	4724	6515	2212	2368	1861

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 **July** 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 27-08-2026 furnished the new elements added in the grid, as per the PSSE case for August 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
411438	411569	G.CHODAVARAM132.00	BHOGAPURAM 132.00	P1	ANDRAPRADESH	ANDRAPRADESH
411438	411569	G.CHODAVARAM132.00	BHOGAPURAM 132.00	P2	ANDRAPRADESH	ANDRAPRADESH
411568	411570	ATCHTPRM21 132.00	INOX_ATCUTPR132.00	P1	ANDRAPRADESH	ANDRAPRADESH
412006	412147	BOMMUR2 220.00	BAVOJIPETA 220.00	Z2	ANDRAPRADESH	ANDRAPRADESH
412008	412028	CHINAKMPALLI220.00	RAJAMPET 220.00	Z2	ANDRAPRADESH	ANDRAPRADESH
412028	412031	RAJAMPET 220.00	RENIGUNTA 220.00	Z1	ANDRAPRADESH	ANDRAPRADESH
412180	412232	NAIDUPETA2 220.00	PEGE_NIDUPTA220.00	M1	ANDRAPRADESH	ANDRAPRADESH
412180	412232	NAIDUPETA2 220.00	PEGE_NIDUPTA220.00	M2	ANDRAPRADESH	ANDRAPRADESH
414060	414068	GREENCO_CPSS400.00	GRNCO_PN 400.00	1	KURNOOL2_S	KURNOOL2_S
414060	414069	GREENCO_CPSS400.00	GRNCO_CH 400.00	1	KURNOOL2_S	KURNOOL2_S
414067	414071	ANANTHAPUR 400.00	RVSPN_ANP 400.00	1	SR_ISTS_AP	ANP_W
414067	414071	ANANTHAPUR 400.00	RVSPN_ANP 400.00	2	SR_ISTS_AP	ANP_W
414068	414069	GRNCO_PN 400.00	GRNCO_CH 400.00	1	KURNOOL2_S	KURNOOL2_S
414071	414072	RVSPN_ANP 400.00	RVSP684_ATP 400.00	1	ANP_W	ANP_S
432101	432391	ANCHEPALYA 220.00	HULIYURUDURG220.00	D1	KARNATAKA	KARNATAKA
432101	432391	ANCHEPALYA 220.00	HULIYURUDURG220.00	D2	KARNATAKA	KARNATAKA
432145	432408	PAVAGADA 220.00	JSW_PVG 220.00	1	SR_ISTS_KA	PVGDA_S
432255	432391	NAGAMAGALA 220.00	HULIYURUDURG220.00	D1	KARNATAKA	KARNATAKA
432255	432391	NAGAMAGALA 220.00	HULIYURUDURG220.00	D2	KARNATAKA	KARNATAKA
434004	434043	NELAMANGALA 400.00	HULIYURUDURG400.00	T1	KARNATAKA	KARNATAKA
434004	434043	NELAMANGALA 400.00	HULIYURUDURG400.00	T2	KARNATAKA	KARNATAKA
434020	434043	MYSORE 400.00	HULIYURUDURG400.00	T1	SR_ISTS_KA	KARNATAKA
434020	434043	MYSORE 400.00	HULIYURUDURG400.00	T2	SR_ISTS_KA	KARNATAKA
434041	434042	KOPPAL_II 400.00	GADAG-II 400.00	Q1	SR_ISTS_AP	SR_ISTS_AP
434041	434042	KOPPAL_II 400.00	GADAG-II 400.00	Q2	SR_ISTS_AP	SR_ISTS_AP
437001	437002	RAICHUR-PG 765.00	KOPPAL-II_PG765.00	H1	SR_ISTS_KA	SR_ISTS_KA
437001	437002	RAICHUR-PG 765.00	KOPPAL-II_PG765.00	H2	SR_ISTS_KA	SR_ISTS_KA
441031	446216	NOLMBURT1 110.00	KORATUR41 110.00	2	TAMILNADU	TAMILNADU
441036	446216	AMB3MNRD 110.00	KORATUR41 110.00	1	TAMILNADU	TAMILNADU
441088	446216	TIRMUDIVAKAM110.00	KORATUR41 110.00	1	TAMILNADU	TAMILNADU
441101	446216	TIRUMANGALMC110.00	KORATUR41 110.00	1	TAMILNADU	TAMILNADU

441312	441492	VELIYANI 110.00	MALAIKOR 110.00	1	TAMILNADU	TAMILNADU
442037	442248	KORATTUR 230.00	KORATTUR42 230.00	K1	TAMILNADU	TAMILNADU
442063	442249	PUTHANSANTHA230.00	NALLUR 230.00	C1	TAMILNADU	TAMILNADU
442066	442249	PUGALUR 230.00	NALLUR 230.00	C1	TAMILNADU	TAMILNADU
442236	442248	GANESHNAGAR 230.00	KORATTUR42 230.00	K1	TAMILNADU	TAMILNADU
451042	451325	EDAPPON 110.00	ADOOR 110.00	W1	KERALA	KERALA
451042	451326	EDAPPON 110.00	ENATHU 110.00	P1	KERALA	KERALA
451085	451344	KUTHUNKAL 110.00	MURIKKASSERY110.00	W1	KERALA	KERALA
451115	451346	MYLATTY 110.00	KUTTIKKOL 110.00	W1	KERALA	KERALA
451119	451344	NEMGI 110.00	MURIKKASSERY110.00	W1	KERALA	KERALA
451289	451346	AMBALATH 110110.00	KUTTIKKOL 110.00	W1	KERALA	KERALA
451322	451331	THIRUVALLA 110.00	BALARAMAPURA110.00	W1	KERALA	KERALA
451322	451331	THIRUVALLA 110.00	BALARAMAPURA110.00	W2	KERALA	KERALA
432145	434026	PAVAGADA 220.00	PAVAGADA 400.00	7	SR_ISTS_KA	SR_ISTS_KA
432391	434043	HULIYURUDURG220.00	HULIYURUDURG400.00	1	KARNATAKA	KARNATAKA
432391	434043	HULIYURUDURG220.00	HULIYURUDURG400.00	2	KARNATAKA	KARNATAKA
432398	434042	GADAG-II 220.00	GADAG-II 400.00	1	SR_ISTS_AP	SR_ISTS_AP
434041	437002	KOPPAL_II 400.00	KOPPAL-II_PG765.00	3	SR_ISTS_AP	SR_ISTS_KA
442169	444044	TRNVL-GIS 230.00	TUTICORN GIS400.00	6	SR_ISTS_TN	SR_ISTS_TN
442248	444063	KORATTUR42 230.00	KORATTUR 400.00	1	TAMILNADU	TAMILNADU
442248	444063	KORATTUR42 230.00	KORATTUR 400.00	2	TAMILNADU	TAMILNADU
442248	444063	KORATTUR42 230.00	KORATTUR 400.00	3	TAMILNADU	TAMILNADU
444063	446216	KORATTUR 400.00	KORATUR41 110.00	1	TAMILNADU	TAMILNADU
444063	446216	KORATTUR 400.00	KORATUR41 110.00	2	TAMILNADU	TAMILNADU

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.

✚ STU / TRANSCOs to coordinate with Nodal LDC to present the Island LGB data Analysis for the Month of July-26.

✚ Respective SLDCs and SRLDC to monitor the Island Schemes in real time.

✚ Respective SLDCs/TRANSCOs and SRLDC to monitor any new elements added inside or across the island boundaries of the respective islands, impacting the Island and UFR implementation at islanding frequency to be ensured.

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)

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

11. Ensuring Readiness of Islanding Schemes

- 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

Sl. No.	Activity	Entity Responsible
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 →	1 st Review	2 nd Review	3 rd Review
1	Hyderabad		11.06.2025	25.09.2025	17.02.2026
2	Bangalore		11.06.2025	09.12.2025	17.02.2026
3	Vijayawada		11.07.2025	25.09.2025	----
4	Visakhapatnam		11.07.2025	25.09.2025	17.02.2026
5	Chennai		15.07.2025	09.12.2025	17.02.2026
6	Neyveli		15.07.2025	16.12.2025	-----
7	Kudankulam		15.07.2025	16.12.2025	-----

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)	<i>Superintending Engineer</i> (nominated by Member Secretary, RPC)	Preparation, coordination, and periodic review of Islanding Schemes
RLDCs (Regional Load Despatch Centres)	<i>General Manager & above</i>	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)	<i>Chief Engineer & above</i>	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.

Entity	Required Level of Nodal Officer	Key Role/Responsibility
GENCOs (Generating Companies)	<i>General Manager / Chief Engineer & above</i>	Implement schemes at generation end; provide data for study/review; ensure healthiness of generating units, relays, communication; submit monthly certification
STUs / PGCIL (Transmission Utilities)	<i>General Manager / Chief Engineer & above</i>	Implement schemes at transmission end; ensure healthiness of substations, lines, relays, communication; provide data for review; monthly certification.
DISCOMs (Distribution Companies)	<i>General Manager / Chief Engineer & above</i>	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	✓	✓	✗
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

✚ **Utilities 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

✚ **SRLDC & SLDC to submit monthly certified report on healthiness of the communication system for Islanding Scheme.**

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 **July 2026**.

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 2025-26.

✚ **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 the 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), who 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 the portal.

 ***All the Users shall adhere to the above Regulatory Provisions and the Time lines.***

 ***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 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 below form, 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 received from KSEBL, APTRANSCO, TGTRANSCO, TANTRANSCO, STPP, JSWEL, KPCL, KPTCL, PGCIL SR-I, PGCIL SR-II & NLCIL only till date.

 ***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.

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**.

Proposed for third party protection audit

S.No	Name of station	Voltage Level	Utility	Remarks
1	Pothencode Sub Station	220 kV	KSEBL	Frequent Grid occurrences with observed in 144 th , 145 th & 146 th PCSC Meeting which is effecting the reliability of power supply to Kerala .

⚡ PCSC may recommend the above station for Third Party Protection Audit

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	Indigrd	Frequent Grid occurrences with Protection Issues observed in 141 st , 142 nd & 143 rd PCSC Meeting	October-26
2	Kalpakka	400kV	APTRANSCO	Frequent Trippings of NTPC-Simhadri, Kalpakka lines affecting Generation and Protection related issues of AR	October-26

				operation etc observed.	
3	Kemar	220kV	KPTCL	Frequent Tripping with unwanted protection operations leading to Generation loss of 400kV UPCL. In 143 rd 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

21. High Short Circuit Levels in 220kV & above substations in SR -region

As per the ATC Peak Demand case file submitted by SRLDC (**Annexure-21**) vide email dated 25.06.2026, it is observed that the following stations in the SR region are experiencing high three-phase short-circuit currents, and the short-circuit levels are exceeding the fault level capacity of station equipment.

The concerned utilities of the stations mentioned below are advised to submit the details of necessary actions taken/planned to mitigate the short-circuit levels.

Bus Number	Name	Utility	Unit	Current	Angle	Remarks
412021	[TALLAPLLI 220.00]	APTRANSCO	AMP	40884.3	-133.36	
412025	[VTS 220.00]	APGENCO	AMP	47420.2	-130.4	
412038	[NUNNA 220.00]	APTRANSCO	AMP	40187.5	-130.2	
414010	[KURNOOL4 400.00]	APTRANSCO	AMP	54271.1	-130.82	
414013	[VTS-IV 400.00]	APGENCO	AMP	40649.2	-128.62	
414021	[SATENAPALI4 400.00]	APTRANSCO	AMP	40440.5	-128.74	
414029	[NELLORE-AP4 400.00]	APTRANSCO	AMP	59663	-128.39	
414030	[SDSTPS 400.00]	APGENCO	AMP	45455.2	-128.15	Equipment Rating 40kA
414058	[SEIL-P2_AP 400.00]	SEIL	AMP	41888	-128.1	
414060	[GREENCO_CPSS400.00]	GREENKO	AMP	48684.1	-132.56	Equipment Rating 63kA
414064	[GREENCO_PSP 400.00]	GREENKO	AMP	44470.6	-133.47	Equipment Rating 63kA
422003	[GHANAPUR 220.00]	TGTRANSCO	AMP	41750.4	-132.08	Bus-split operation at Moulali is being

						planned to reduce the short-circuit levels at 220 kV Ghanapur and 220 kV Malkaram substations
422023	[BPD 220KV SS220.00]	TGTRANSCO	AMP	42323.5	-129.94	
422024	[MALKARAM 220.00]	TGTRANSCO	AMP	49612.7	-130.91	
422031	[MMP 220 BUS 220.00]	TGTRANSCO	AMP	46976.1	-131.47	
422037	[HIAL 220.00]	TGTRANSCO	AMP	42270.9	-131.58	
422144	[RAIDURG 220.00]	TGTRANSCO	AMP	40562.3	-131.36	
424006	[MAMIDIPALLI 400.00]	TGTRANSCO	AMP	47107.4	-129.26	
424019	[DINDI 400.00]	TGTRANSCO	AMP	44445.5	-130.42	
424022	[MAHES-TS 400.00]	TGTRANSCO	AMP	66567.5	-127.77	bus sectionalization at the 400 kV Maheshwaram substation has been planned and approved with a view to reducing the fault levels at the station
860090	[ZSWSH_860090400.00]	TGTRANSCO	AMP	44445.5	-130.42	
424002	[RSTPS NTPC 400.00]	NTPC	AMP	41549.8	-128.26	
424043	[RSPTS_FSP 400.00]	NTPC	AMP	41549.8	-128.26	
434006	[RAICHUR TPS 400.00]	KPCL	AMP	42740.9	-127.58	Equipment Rating 63kA
442015	[BASINBRIDGE 230.00]	TANTRANSCO	AMP	43886.8	-134.97	Equipment Rating 40kA
442016	[CHECKN42 230.00]	TANTRANSCO	AMP	40400.7	-126.22	Out of 11 bays, 6 bays having 50 kA and 5 bays having 40 kA
442038	[KOYAMBEDU 230.00]	TANTRANSCO	AMP	41290.9	-134.65	Out of 7 bays, 5 bays having 50 kA and 2 bays having 40 kA
442076	[SPBUDUR2 230.00]	TANTRANSCO	AMP	46918.9	-136.14	All bays having 50 kA
442082	[TARAMANI 230.00]	TANTRANSCO	AMP	42229.5	-134.79	All bays having 50 kA
442083	[TONDIARPET 230.00]	TANTRANSCO	AMP	41807.6	-134.96	All bays having 50 kA
442119	[KOYCMRL 230.00]	TANTRANSCO	AMP	40095.6	-134.62	Out of 8 bays, 1 bay having 50 kA and the remaining bays having 40 kA
442128	[ALDRCMRL 230.00]	TANTRANSCO	AMP	40926.1	-134.47	All bays having 50 kA
442129	[GUINDY 230.00]	TANTRANSCO	AMP	42229.6	-134.52	All bays having 50 kA
442151	[RAPURAM 230.00]	TANTRANSCO	AMP	41250.3	-134.59	All bays having 50 kA

442216	[PULIYANTHOP 230.00]	TANTRANSCO	AMP	44001.7	-134.98	All bays having 50 kA
414001	[GOOTY 400.00]	APTRANSCO	AMP	41885.5	-131.18	
414003	[NELLORE-PG 400.00]	PGCIL SR-I	AMP	59663	-128.39	
414004	[CHINAKMPALLI400.00]	PGCIL SR-I	AMP	45138.7	-131.89	
414006	[CNP-FSC2 400.00]	PGCIL SR-I	AMP	45138.7	-131.89	
414023	[NELLORE-PS 400.00]	PGCIL SR-I	AMP	58106.5	-128.22	
414031	[KURNOOL-PG 400.00]	PGCIL SR-I	AMP	58351.4	-131.2	
414032	[GTYNLM-FSC 400.00]	PGCIL SR-I	AMP	41885.5	-131.18	
414033	[GTYSMN-FSC 400.00]	PGCIL SR-I	AMP	41885.5	-131.18	
414052	[CUDDAPA GIS 400.00]	PGCIL SR-I	AMP	45138.7	-131.89	
424003	[GHANAPUR 400.00]	PGCIL SR-I	AMP	40253.6	-130.05	
424004	[KHAMMAM 400.00]	PGCIL SR-I	AMP	41958.6	-129.24	
424021	[MHSWRM-PG 400.00]	PGCIL SR-I	AMP	66960.5	-127.73	
434008	[TUMKUR 400.00]	PGCIL SR-II	AMP	41218.7	-132.67	
434009	[RAICHUR-PG 400.00]	PGCIL SR-II	AMP	44929.3	-128.03	
444005	[TIRUNELVELLI400.00]	PGCIL SR-II	AMP	45245.2	-126.43	
414012	[SIMHADRI400.00]	NTPC	AMP	38197.1	-124.24	

Updates:

<i>S.No.</i>	<i>Utility</i>	<i>Update</i>
1.	APTRANSCO	Detailed short-circuit studies to be carried out for these substations and the findings, along with the proposed mitigation measures, to be submitted to SRPC.
2.	APGENCO	APGENCO to discuss with the Power System Wing of APTRANSCO and to furnish mitigation measures.
3.	TGTRANSCO	<i>As updated above</i>
4.	KPCL	<i>At 400 kV Raichur SS the equipment rating has been upgraded from 43 kA to 63 kA.</i>
5.	TANTRANSCO	<i>As updated above</i>
6.	NTPC, RSTPS	NTPC, RSTPS to furnish the details of the proposed mitigation measures.
7.	PGCIL-SR-I	PGCIL SR-I informed that the necessary measures would be implemented in accordance with the recommendations of CTUIL.

✚ SRLDC is requested to furnish the details of short-circuit levels at any other stations, apart from those listed above, where the short-circuit levels are exceeding the station fault level capability, and submit the updated list by 02.08.2026.

- ✚ *The utilities of the above-mentioned stations are requested to verify the station connectivity details as indicated in the case file furnished by SRLDC in Annexure-21 and furnish the remedial actions taken/planned for mitigating the short-circuit levels at their respective stations.*

22. Kudankulam Islanding Scheme – Review of Load Calculation and Proposed Modifications

During the 145th PCSC Meeting, SRLDC highlighted that the load value calculation adopted for the Kudankulam Islanding Scheme by TANTRANSCO is not correct. SRPC noted that the issue has been pending for a long time and has been highlighted in several previous meetings. TANTRANSCO and SRLDC were requested to resolve the issue on priority.

During the meeting, MS, SRPC directed SRLDC to convene a meeting with TANTRANSCO and KSEBL, involving all concerned departments of the STU, including SLDC, STU and SCADA wings, to review and finalize the load calculation and necessary modifications to the Kudankulam Islanding Scheme before the next PCSC Meeting.

SRLDC is requested to provide a brief note on the following:

- Existing load calculation methodology adopted for the Kudankulam Islanding Scheme.
- Issues/deficiencies identified in the existing load calculation.
- Revised load calculation proposed, along with the basis and supporting data.
- Deliberations held with TANTRANSCO, KSEBL and concerned STU/SLDC/SCADA departments.
- Proposed modifications to the Kudankulam Islanding Scheme.

✚ SRLDC may provide the status update.

23. Compliance of Under-Frequency and Over-Frequency Protection Settings of Pumped Storage Plants in line with IEGC, CEA Connectivity Standards and AUFLS Scheme

As deliberated in the 145th PCSC meeting, the following recommendations with regard to Under-frequency and Over-Frequency Protection settings of Pumped storage plants were suggested to TGGENCO:

✚ In Generation/Condensor mode:

Over Frequency Setting of half units >52.00 HZ with 0.5 Second time delay and balance half @ 1 Seconds delay

Under Frequency Setting of @ OEM recommended Minimum value <47.50 HZ with max OEM recommended time delay (should not be instantaneous)

✚ In Pump mode:

Over Frequency Setting of @ OEM recommended maximum value >52.00 HZ with max OEM recommended time delay (should not be instantaneous)

Under Frequency Setting of @49.50 Hz with 2-3 cycles time delay

✚ *All entities may note the recommendations for implementation in there respective plants for compliance with IEGC,CEA Connnectivity Standards.*

24. 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.

25. Date & Venue of next PCSC meeting

Date & Venue of 147th PCSC meeting would be informed in due course.
