


भारतसरकार केंद्रीय विद्युत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति 29, रेस कोर्स क्रॉस रोड बेंगलुरु-560 009	 सत्यमेव जयते	Government of India Central Electricity Authority Southern Regional Power Committee 29, Race Course Cross Road Bengaluru - 560 009
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सं/No. SRPC/SE(P,C & SS)/PP/2023/4416-51	दिनांक /Date	26th September 2023

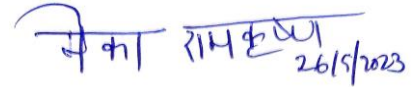
सेवा में / To

संलग्न सूचीके अनुसार
As per attached List

विषय/Subject: Record Notes of the Meeting for finalization of Protection Protocol of Southern Region on 22.09.2023-Reg.

Enclosed, please find the Record Notes of the Meeting held on 22.09.2023 for finalization of Protection Protocol of Southern Region.

भवदीय/Yours faithfully,


26/9/2023

(मेका रामकृष्ण/MEKA RAMAKRISHNA)

अधीक्षक अभियंता(पी,सी & एसएस) / Superintending Engineer(P,C &SS)

प्रेषितिसूची/ Mailing List (Protection Coordination Sub-Committee)

1. मुख्यअभियंता (एचपीसीवजलपरियोजना) एपीजेनको, 4 वी मंजिल,गुणदल,विजयवाडाआंप्र 520004/ Chief Engineer (Generation), APGENCO, 4th Floor, Vidyut Soudha, Eluru Road, Gunadala, Vijayawada, AP – 520 004
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4. मुख्य महा प्रबंधक(ए टि), एपीईपीडीसीएल, विशाखापटनम / Chief General Manager (IT), APEPDCL, Vishakhapatnam.
5. मुख्यअभियंता (इले.डिजाईन), केपीसीएल, बेंगलूर/ Chief Engineer (Ele. Designs), KPCL, Bangalore
6. मुख्यअभियंता (आरटीऔरआर&डी), केपीटीसीएल, बेंगलूर/ Chief Engineer (RT and R&D), KPTCL, Bangalore
7. मुख्यअभियंता (एम.टी.एस), टैनजोडको, चैन्नै/ Chief Engineer (MTS), TANGEDCO, Chennai (Fax No: 044 – 28585804)
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11. मुख्यअभियंता (उत्पादन), टीएसजेनको, हैदराबाद/ Chief Engineer (Generation), TSGENCO, Hyderabad
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14. मुख्य महा प्रबंधक (ए पी सी & आर ए सी), टीएसएनपीडीसीएल, वारंगल,/ Chief General Manager (IPC & RAC), TSNPDCL, Warangal.
15. अधीक्षकअभियंता-I, विद्युत्विभाग, 137, एनएससीबोससालै, पुदुचेरी- 605001/ Superintending Engineer –I, Electricity Department, 137, NSC Bose Salai, Puducherry – 605001
16. महाप्रबंधक (ओएस), एनटीपीसी, दक्षिणक्षेत्रीयमुख्यालय, सिंकराबाद/ General Manager (OS), NTPC SRHQ, Secunderabad
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19. केंद्रनिदेशक, केजीएस, कैगा, कर्नाटक/ Station Director, KGS, Kaiga, Karnataka
20. केंद्रनिदेशक, एमएपीएस, कल्पक्कम/ Station Director, MAPS, Kalpakkam
21. केंद्रनिदेशक, केकेएनपीपी, तिरुनल्वेलीजिला, 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 (प्रचवअनु) दक्षे-I, पावरग्रिड, सिंकराबाद/ GM (O&M), SR-I, PGCIL, Secunderabad
25. जीएम (प्रचवअनु) 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 नवीन गुप्ता, एजीएम, इलेक्ट्रिकल मेंटेनेंसजेएसडब्ल्यूएनर्जीलि. तोरणगल्लु, बल्लारी – 583275/ Sh. Naveen Gupta, AGM, Electrical Maintenance, M/s JSW Energy Ltd, Toranagallu, Bellary-583275
28. श्री आशीष बाविस्कर, सह महाप्रबंधकयूपीसीएल, बेंगलूर/ Sh. Ashish Baviskar, Associate General Manager, UPCL, Bangalore
29. प्रधानविद्युत्एवंसीआईअनुरक्षण,एसईआईएल, प्यानपुरम / नेलत्तूरुग्राम, मुतुकूरमंडल, एसपीएसआरनेल्लूर- 524344/ Head Electrical and C&I Maintenance, SEIL, Pyanampuram/ Nelaturu Village, Muthukur Mandal, SPSR Nellore – 524344
30. श्री. के बालमुरुगन, रखरखाव प्रमुख, आईएलवएफएस, टीपीसीएल, सीपुदुपेट्टैडाक, परनगीपेट्टै, भुवनगिरिताल्लूक, कुडलूरजिला, तमिलनाडु- 608502/ Sh. K Balamurugan, Maintenance Head, IL&FS Tamilnadu Power Company Ltd., C.Pudhupettai (post), Parnagipettai, BhuvanagiriTaluk, CuddaloreDist, Tamilnadu – 608502
31. श्री सी रामकृष्ण, एजीएम (ऑपरेशन), हिंदुजाएनपीसीएल, पेटगंट्यडमंडल, विशाखपट्टनम, आप्र- 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, सांतारूज 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, POSOCO, Bengaluru

SOUTHERN REGIONAL POWER COMMITTEE BENGALURU

Record Notes of the Meeting on for finalization of Protection Protocol of Southern Region held on 22.09.2023 through VC

A. Introduction

A meeting to finalize the Protection Protocol of Southern Region was conducted on 22.09.2023 through VC with all stakeholders. The list of participants is given at **Annexure-1**.

B. Background

- a) CERC has notified CERC (Indian Electricity Grid Code) Regulations 2023 (IEGC 2023) and shall come into force with effect from 01.10.2023. The following Regulations/Clauses of IEGC 2023 specifies about the Protection Protocol for the Region and are reproduced below:

“12(2): There shall be a uniform protection protocol for the users of the grid:

- a) for proper co-ordination of protection system in order to protect the equipment/system from abnormal operating conditions, isolate the faulty equipment and avoid unintended operation of protection system;*
- b) to have a repository of protection system, settings and events at regional level;*
- c) specifying timelines for submission of data;*
- d) to ensure healthiness of recording equipment including triggering criteria and time synchronization; and*
- e) to provide for periodic audit of protection system.”*

“13. Protection protocol

*(3) RPC shall develop the protection protocol and revise the same, after review from time to time, in consultation with the stakeholders in the concerned region, and in doing so shall be guided by the principle that minimum electrical protection functions for equipment connected with the grid shall be provided as per the CEA Technical Standards for Construction, the CEA Technical Standards for Connectivity, the CEA Technical Standards for Communication, the CEA (Grid Standards) Regulations, 2010, the CEA (Measures relating to Safety and Electric Supply) Regulations, 2010, and any other CEA standards specified from time to time.
.....”*

- b) In compliance with the above, SRPC secretariat has prepared draft Protection Protocol of Southern Region (**Annexure-2**) and circulated the same among all the SR entities vide email dated 22.08.2023 requesting to furnish the comments on the draft Protection Protocol of Southern Region by 6th September 2023.
- c) The comments have been received from KPCL, KSEBL, TSTRANSCO, PGCIL SR-II, SRLDC, TANTRANSCO, KPTCL & PGCIL SR-I. The consolidated comments and the comments furnished by the above entities on the draft Protection Protocol of Southern Region are at **Annexure-3**.

C. Deliberation

- a) MS, SRPC welcomed all participants to the meeting. He informed that draft Protection Protocol of Southern Region was circulated and comments from few entities have been received. He requested the members to put forward their views/comments to finalize the Protection Protocol in

better form. He added that the finalized Protection Protocol of Southern Region would be effective from 01.10.2023 along with IEGC 2023.

- b) SE(P,C &SS),SRPC briefed that the draft Protection Protocol of Southern Region has been prepared based on the various clauses envisaged in the IEGC 2023 and various prevailing CEA Regulations/guidelines. As per the Chapter 4 of IEGC 2023 (Protection Code), RPC shall develop the protection protocol guided by the principle that minimum electrical protection functions for equipment connected with the grid shall be provided as per the CEA Technical Standards for Construction, the CEA Technical Standards for Connectivity, the CEA Technical Standards for Communication, the CEA (Grid Standards) Regulations, 2010, the CEA (Measures relating to Safety and Electric Supply) Regulations, 2010, and any other CEA standards specified from time to time. Hence the Protection schemes/systems envisaged in the CEA Technical Standards for Construction for the Generating Units (Thermal & Hydro), Transmission elements including Transmission lines, HVDC stations etc. have been included in the Protection Protocol.

He highlighted that IEGC 2023 mentions that the protection protocol in a particular system may vary depending upon operational experience. Changes in protection protocol, as and when required, shall be carried out after deliberation and approval of the concerned RPC.

- c) The comments/feedback furnished by the stake holders and the comments raised in the meeting were deliberated in the meeting. The consolidated point-wise/comment-wise detailed deliberations in the meeting are given at **Annexure- 4**.
- d) The finalized Protection protocol of Southern Region after incorporating the inputs of the Stakeholders as deliberated & agreed in the meeting is at **Annexure-5**.
