

 RIGHT TO INFORMATION	 MAHATransco Maharashtra State Electricity Transmission Co. Ltd. MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD. CIN NO. U40109MH2005SGC153646 Maharashtra State Load Dispatch Center Tele :91-022-27601762 (P) Office of The Chief Engineer 91-022-27601931 (O) Extn.1003 Maharashtra State Load Dispatch Center Email : cesldc@mahasldc.in Thane-Belapur Road, P.O. Airoli website : www.mahasldc.in Navi Mumbai Pin – 400 708.	
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Ref. No. ED/MSLDC/OP/GCC/ **000971**

Date: **24 APR 2026**

To,
As per mailing list GCC Core Group Members.

Sub: - Agenda for 19th Grid Coordination Committee (GCC) Meeting scheduled on 28.04.2026 at 15:00 hrs. at Prakashganga.

Ref.: Agenda request vide ED/MSLDC/OP/GCC/905 date: 21.04.2026

Dear Sir,

In reference to the above subject, it is to convey that as per directives from the Director (Operations), MSETCL, Chairman GCC, the 19th meeting of the GCC core group will be held as per following: -

Date of Meeting: 28.04.2026

Time of Meeting: 15:00 hrs.

Venue:. Corporate Office, Prakashganga, Mumbai

The agenda for the said meeting is attached herewith.

It is requested to kindly make it convenient to attend the meeting physically. However, in case of any work exigencies, meeting may be attended through V.C for which the link will be shared separately.

Thanking you.

Encl: As above.

With regards,

(Shashank Jewalikar)
Executive Director, MSLDC
and
Member Convenor of GCC

Copy s.w.r. to:

The Director (Operations), Corporate Office, MSETCL, Mumbai.

Mailing List of GCC Core Group Members:

Sr. No.	Name of Organization	Name of Nominee/Designation	Committee Position	Contact No.	E-mail ID
1	MSETCL	Shri Satish Chavan, Director (Operations)	Chairperson	022- 26492162	dirop@mahatransco.in
2	MSEDCL	Shri. Yogesh Gadkari Director (Commercial)	Member	022- 26474211 / 26472131	directorcommsedcl@gmail.com
3	MSLDC	Shri. Shashank Jewalikar Executive Director (SLDC)	Member Convener	022- 27301931	edsldc@mahatransco.in edsldc@mahasldc.in
4	MSETCL	Shri. Anil Bharsakle (CE Tr. O&M)	Member	85549950 04	ceom@mahatransco.in
5	MSPGCL	Shri. Pankaj Nagdeote CE (Works)	Member	022- 6942200 69843434 Ext. 3419	cegw@mahagenco.in
6	WRPC	Shri. P. D. Lone, S.E. Commercial	Member	98676228 23	comml-wrpc@nic.in
7	MEDA	Shri Manoj Pise, General Manager	Member	94223190 93	gmr@mahaurja.com

Agenda for 19th Grid Co-ordination Committee meeting scheduled on 28th April 2026 at 15:00 Hrs. at Corporate Office, Prakashganga.

Agenda Points: -

Item No.1

1.1 Confirmation of the Minutes of the 17th GCC Meeting held on 30.01.2026 circulated on 21.04.2026

Item No.2: Agenda from PCC

2.1 Draft Proposal for modification/changes in MEGC-2020 Regulation

The review of MEGC regulation-2020 was discussed during the 14th GCC meeting held on dtd 28.07.2025 at SLDC, Kalwa and GCC committee has directed that 'Protection code' shall be discussed & reviewed in PCC meeting and after in-principal approval from PCC, the approved protection code shall be put up to GCC. The Protection code was discussed during 9th PCC meeting held on dtd 12.01.2026 through Hybrid Mode. The in-principal approved modification/changes suggested by committee is attached herewith as **Annexure I.**

- Appraisal for GCC committee thereof.

Item No. 3: Agenda from MTC

Attached herewith as **Annexure II**

Annexure-I

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



As per IEGC 2023,

[Chapter -4: Protection code, clause -12: General]

- (1) This chapter covers the protection protocol, protection settings and protection audit plan of electrical systems.
- (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.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
1	23.2.1	23.2] Fault Clearance Time: Fault clearance time for primary protection schemes, when all equipment operate correctly, for a three phase fault (close to the bus- bars) on Users' equipment directly connected to InSTS and for a three phase fault (close to the bus-bars) on InSTS connected to Users' equipment, shall not be more than: 100 milliseconds for 800 kV class & 400 kV 160 milliseconds for 220 kV & 132 kV/110kV	13.1	13] PROTECTION PROTOCOL All users connected to the integrated grid shall provide and maintain effective protection system having reliability, selectivity, speed and sensitivity to isolate faulty section and protect element(s) as per the CEA Technical Standards for Construction, the CEA Technical Standards for Connectivity, the CEA (Grid Standards) Regulations, 2010, the CEA Technical Standards for Communication and any other applicable CEA Standards specified from time to time.	In line with IEGC
2	23.2.2	Back-up protection shall be provided for required isolation/protection in the event of failure of the primary protection systems provided to meet the above fault clearance time requirements. If a Generating Unit is connected to the InSTS directly, it shall be capable of withstanding, until clearing of the fault by back-up protection on the InSTS side.	13.2	Back-up protection system shall be provided to protect an element in the event of failure of the primary protection system.	Back-up protection system shall be provided to protect an element in the event of failure of the primary protection system. If a Generating Unit is connected to the InSTS directly, it shall be capable of withstanding, until clearing of the fault by back-up protection on the InSTS side.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
3	23.3.1	23.3] Protection System Protection Systems shall be provided by all Transmission Licensees and Users to isolate the faulty equipment and protect the other components against all types of faults, internal/external to them, within specified fault clearance time with the reliability, selectivity and sensitivity: Provided that all Users or Transmission Licensees shall provide protection systems as specified by the Authority and the provisions of the protection code and Connection Agreement.	-	-	Protection Systems shall be provided by all Transmission Licensees and Users to isolate the faulty equipment and protect the other components against all types of faults, internal/external to them, within specified fault clearance time with the reliability, selectivity and sensitivity: Provided that all Users or Transmission Licensees shall provide protection systems and as per the provisions of the protection code/ Protection manual and Connection Agreement.
4	23.3.2	Relay setting coordination shall be done at State level in coordination with the STU and with WRLDC/WRPC.	13.3	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.	RPC / PCC 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.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
5			13.4	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.	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 / PCC.
6			13.5	Violation of the protection protocol of the region shall be brought to the notice of concerned RPC by the concerned RLDC or SLDC, as the case may be.	Violation of the protection protocol of the region shall be brought to the notice of concerned RPC/PCC by the concerned RLDC or SLDC, as the case may be.
7	23.3.3	All 220 kV and above stations shall have bus bar protection scheme, over flux, under voltage, over voltage relays and any other protection recommended by Regional PSCC of WRPC/STU.	-	-	All EHV sub stations shall have protection scheme as per Protection manual and any other protection recommended by Regional Protection committee and PCC.
8	23.3.4	Users shall provide information to SLDC regarding installation and healthiness of protective equipment like df/dt relays etc., reactive compensation on UFR monthly basis.	-	-	Users shall provide information to SLDC regarding installation and healthiness of system defence mechanism (protective equipment) like df/dt relays, islanding scheme, UVLS, LTS, GTS, UFR, SPS on monthly basis before 5th of the every month.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
9			14.1	14] PROTECTION SETTINGS RPCs shall undertake review of the protection settings, assess the requirement of revisions in protection settings and revise protection settings in consultation with the stakeholders of the respective region, from time to time and at least once in a year. The necessary studies in this regard shall be carried out by the respective RPCs. The data including base case (peak and off-peak cases) files for carrying out studies shall be provided by RLDC and CTU to the RPCs.	RPC/PCC shall undertake review of the protection settings, assess the requirement of revisions in protection settings and revise protection settings in consultation with the stakeholders of the region, from time to time and at least once in a year. The necessary studies in this regard shall be carried out by the RLDC/CTU/SLDC/STU. The fault level data shall be provided by STU on yearly basis.
10			14.2	All users connected to the grid shall: (a) furnish the protection settings implemented for each element to respective RPC in a format as prescribed by the concerned RPC; (b) obtain approval of the concerned RPC for (i) any revision in settings, and (ii) implementation of new protection system; (c) intimate to the concerned RPC about the changes implemented in protection system or protection settings within a fortnight of such changes; (d) ensure correct and appropriate settings of protection as specified by the concerned RPC. (e) ensure proper coordinated protection settings.	All users connected to the grid shall: (a) submit protection setting to respective PAC circle, MSETCL & obtain approval of the concerned PAC circle, MSETCL in co-ordination with RPC/PCC for (i) any revision in settings, and (ii) implementation of new protection system; (a) intimate to the concerned PCC about the changes implemented in protection system or protection settings within a fortnight of such changes; (b) ensure correct and appropriate settings of protection as specified by the PCC. (c) ensure proper coordinated protection settings.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
14			16.1	16] SYSTEM PROTECTION SCHEME (SPS) SPS for identified system shall have redundancies in measurement of input signals and communication paths involved up to the last mile to ensure security and dependability.	SPS for identified system shall have redundancies in measurement of input signals and communication paths involved up to the last mile to ensure security and dependability.
15			16.2	For the operational SPS, RLDC or NLDC, as the case may be, in consultation with the concerned RPC(s) shall perform regular load flow and dynamic studies and mock testing for reviewing SPS parameters & functions, at least once in a year. RLDC or NLDC shall share the report of such studies and mock testing including any short comings to respective RPC(s). The data for such studies shall be provided by CTU to the concerned RPC, RLDC and NLDC.	For the operational SPS, SLDC or STU, as the case may be, in consultation with the PCC shall perform regular load flow and dynamic studies and mock testing for reviewing SPS parameters & functions, at least once in a year. SLDC or STU shall share the report of such studies and mock testing including any short comings to PCC. The data for such studies shall be provided by STU to the concerned SLDC.
16			16.3	The users and SLDCs shall report about the operation of SPS immediately and detailed report shall be submitted within three days of operation to the concerned RPC and RLDC in the format specified by the respective RPCs.	The users shall report about the operation of SPS immediately and detailed report shall be submitted within three days of operation to the PCC and SLDC/ALDC in the format specified by the PCC.
17			16.4	The performance of SPS shall be assessed as per the protection performance indices specified in these Regulations. In case, the SPS fails to operate, the concerned User shall take corrective actions and submit a detailed report on the corrective actions taken to the concerned RPC within a fortnight.	The performance of SPS shall be assessed as per the protection performance indices specified in these Regulations. In case, the SPS fails to operate, the concerned User shall take corrective actions and submit a detailed report on the corrective actions taken to the PCC within a fortnight.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
18	25.1	25] System recording Instruments: Recording instruments such as Data Acquisition System/Disturbance Recorder/ Event Logger/Fault Locator (including time synchronization equipment)/voice recorder/ any other such equipment in each generating station/substation/SLDC/ALDC shall be provided in the InSTS for recording of dynamic performance of the system and shall be maintained in working condition: Provided that all such locations shall be time synchronized with the Meter Data Acquisition Systems (MDAS) located at SLDC and same shall be ensured by periodic verification and validation procedure to be developed and monitored by the STU.	17.1	17]RECORDING INSTRUMENTS All users shall keep the recording instruments (disturbance recorder and event logger) in proper working condition.	All users shall keep the recording instruments (disturbance recorder and event logger) in proper working condition.
19			17.2	The disturbance recorders shall have time synchronization and a standard format for recording analogue and digital signals which shall be included in the guidelines issued by the respective RPCs.	The disturbance recorders shall have time synchronization and a standard format for recording analogue and digital signals which shall be included in the guidelines issued by the PCC/RPC.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
20			17.3	The time synchronization of the disturbance recorders shall be corroborated with the PMU data or SCADA event loggers by the respective RLDC. Disturbance recorders which are non- compliant shall be listed out for discussion at RPC	The time synchronization of the disturbance recorders shall be corroborated with the PMU data or SCADA event loggers by the SLDC. Disturbance recorders which are non- compliant shall be listed out for discussion at PCC by SLDC.
21	46.2.1	46.2 Reporting Procedure: User or T/L licensee after having initially reported about the event orally to the SLDC shall provide a written report within 2 days of the occurrence of the event to the SLDC in accordance with Regulation 46.1.1.	37.2	Event Reporting: Event reporting shall make available adequate data to facilitate event analysis. (a) Immediately following an event (grid disturbance or grid incidence as defined in the CEA Grid Standards) in the system, the concerned user or SLDC shall inform the RLDC through voice message.	Event reporting shall make available adequate data to facilitate event analysis. (a) Immediately following an event grid disturbance or grid incidence as defined in the CEA Grid Standards) in the system, the concerned user shall inform the SLDC through voice message.
22				(b) Written flash report shall be submitted to RLDC and SLDC by the concerned user within the time line specified in Table 8 below.	(b) Written flash report shall be submitted to SLDC/ALDC/PCC by the concerned user within the time line specified in Table 8 .

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft Remarks
	Cl. No.	Regulation	Cl. No.	Regulation	
23			37.2	(c) Disturbance Recorder (DR), station Event Logger (EL), Data Acquisition System (DAS) shall be submitted within the time line specified in Table 8 below.	(c) Preliminary report along with Disturbance Recorder (DR), station Event Logger (EL), Data Acquisition System (DAS) shall be submitted within the time line specified in Table.
24				(d) RLDC shall report the event (grid disturbance or grid incidence) to CEA, RPC and all regional entities within twenty-four (24) hours of receipt of the flash report	(d) SLDC shall report the event (grid disturbance or grid incidence) to WRLDC within twenty-four (24) hours of receipt of the flash report.
25	46.2.2	SLDC, after having initially reported about the event orally to the Users/Transmission Licensees, shall provide a written report within two weeks of the occurrence of the event to the concerned Users/Transmission Licensees.		(e) After a complete analysis of the event, the user shall submit a detailed report in the case of grid disturbance or grid incidence within one (1) week of the occurrence of event to RLDC and RPC.	(e) After a complete analysis of the event, the user shall submit a detailed report in the case of grid disturbance or grid incidence within one (1) week of the occurrence of event to SLDC/PCC.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
26			37.2	(f) RLDCs and NLDC (for events involving more than one region) shall prepare a draft report of each grid disturbance or grid incidence including simulation results and analysis which shall be discussed and finalized at the Protection sub committee of RPC as per the timeline specified in Table-8 below.	(f) SLDC (for events involving more than one user) shall prepare a draft report of each grid disturbance or grid incidence for GD category-2 & above including simulation results and analysis which shall be discussed and finalized at the Protection sub- committee of WRPC/PCC as per the timeline specified in Table.
27				(g) The implementation of the recommendations of the final report shall be monitored by the protection sub-committee of the RPC. NLDC shall disseminate the lessons learnt from each event to all the RPCs for necessary action in the respective regions.	(g)The implementation of the recommendations of the final report shall be monitored by the Protection sub-committee of GCC i.e. PCC.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
28			37.2	(h) Any additional data such as single line diagram (SLD) of the station, protection relay settings, HVDC transient fault record, switchyard equipment and any other relevant station data required for carrying out analysis of an event by RPC, NLDC, RLDC and SLDC shall be furnished by the users including RLDC and SLDC, as the case may be, within forty- eight (48) hours of the request. All users shall also furnish high-resolution analog data from various instruments including power electronic devices like HVDC, FACTS, renewable generation (inverter level or WTG level) on the request of RPCs, NLDC, RLDCs or SLDCs.	(h) Any additional data such as single line diagram (SLD) of the station, protection relay settings, HVDC transient fault record, switchyard equipment and any other relevant station data required for carrying out analysis of an event by SLDC/PCC shall be furnished by the users, as the case may be, within forty- eight (48) hours of the request. All users shall also furnish high- resolution analog data from various instruments including power electronic devices like HVDC, FACTS, renewable generation (inverter level or WTG level) on the request of SLDC/PCC.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
29			37.2	(i) Triggering of STATCOM, TCSC, HVDC run-back, HVDC power oscillation damping, generating station power system stabilizer and any other controller system during any event in the grid shall be reported to the concerned RLDC and RPC if connected to ISTS and to the concerned SLDC if connected to an intra- state system. The transient fault records and event logger data shall be submitted to the concerned RLDC or SLDC within 24 hours of the occurrence of the incident. Generating stations shall submit 1 second resolution active power and reactive power data recorded during oscillations to the concerned RLDC or SLDC within 24 hours of the occurrence of the oscillations.	(i) Triggering of STATCOM, TCSC, HVDC run back, HVDC power oscillation damping, generating station power system stabilizer and any other controller system during any event in the grid shall be reported to the SLDC if connected to an intra- state system. The transient fault records and event logger data shall be submitted to the concerned SLDC within 24 hours of the occurrence of the incident. Generating stations shall submit 1 second resolution active power and reactive power data recorded during oscillations to the SLDC within 24 hours of the occurrence of the oscillations. events of unintended operation or non-operation of the protection system shall be prepared and submitted by each user to the SLDC within the first week of the subsequent month.
30				(j) A monthly report on events of unintended operation or non- operation of the protection system shall be prepared and submitted by each user [owner of important elements as identified at sub-clause (b) of clause (2) of Regulation 29 of these regulations] to the concerned RPC and RLDC within the first week of the subsequent month.	(j) A monthly report on events of unintended operation or non-operation of the protection system shall be prepared and submitted by each user to the SLDC within the first week of the subsequent month.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
31	46.2.3	Reporting Procedure: A written report shall be sent to SLDC or Users/Transmission Licensees, as the case may be, and shall confirm the oral notification together with the following details of the event: a) Time and date of the event; b) Location; c) Plant and/or Equipment directly involved; d) Description and cause of event; e) Antecedent conditions; f) Demand and/or Generation (in MW) interrupted and duration of interruption; g) All relevant system data including copies of records of all recording Instruments including Disturbance h) Recorder, Event Logger and Data Acquisition System; i) Sequence of tripping with time; j) Details of Relay Flags; k) Remedial measures; and Any other related information. Provided that SLDC shall develop standard reporting, format considering information mentioned in 46.1.1 and as agreed by the GCC. Such formats shall be made available on the SLDC website.	--	---	A written report shall be sent to SLDC or Users/Transmission Licensees, as the case may be, and shall confirm the oral notification together with the following details of the event: a) Time and date of the event; b) Location; c) Plant and/or Equipment directly involved; d) Description and cause of event; e) Antecedent conditions; f) Loading Conditions Pre and Post of the Event g) Demand and/or Generation (in MW) interrupted and duration of interruption; h) All relevant system data including copies of records of all recording Instruments including Disturbance i) Recorder, Event Logger and Data Acquisition System; j) Sequence of tripping with time; k) Sequence of restorations with time; l) Details of Relay Flags; m) Single line diagrams with details as connected bays, involved & adjacent elements .bus configurations, nature & location of fault, load flows, other relevant info. n) Single line diagrams of the grid (network involved) o) Mention of last Protections Audit. n) Remedial measures; and Any other related information.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
32	66.2	Protection Code: 66] General: Electrical equipment or part of electrical equipment shall be allowed to remain connected to the InSTS only if it shall be provided by minimum specified protection aimed at reliability, selectivity, speed, stability, and sensitivity.	--	---	Electrical equipment or part of electrical equipment shall be allowed to connect & to remain connected to the InSTS only if it shall be provided by minimum specified protection aimed at reliability, selectivity, speed, stability, and sensitivity.
33	66.9	The Protection Manual prepared by the STU shall contain provisions for the following: a) Role and responsibility of STU/ SLDC and Users; b) Protection System for Generators; c) Protection System for Transmission Lines including HVDC; d) Protection System for substations and Transmission to Distribution interface; e) Compliance monitoring of the protection code by the Users; f) Calibration and testing of the equipment and Relays used in the protection system; g) Type of communication required for protection system;	15.1	15] PROTECTION AUDIT PLAN 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).	All users shall conduct internal audit of all EHV sub station & their protection systems annually, and any shortcomings identified shall be rectified and informed to their respective PCC/ SLDC . The audit report along with action plan for rectification of deficiencies detected, if any, shall be shared with respective PCC/ SLDC .

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
34	66.9	h) Protection Audit; and i) Any other provisions that STU deem fit as required for the system.	15.2	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.	All users shall also conduct third party protection audit of each sub-station at 220 kV and above (110 kV and above in Mumbai & Mumbai suburban city area) once in five years or earlier as advised by the respective RPC/PCC.
35			15.3	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.	After analysis of any event, each PCC 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.
36			15.4	The third-party protection audit report shall contain information sought in the format enclosed as <u>Annexure-1</u> . The protection audit reports, along with action plan for rectification of deficiencies detected, if any, shall be submitted to the respective RPC and RLDC or SLDC, as the case may be, within a month of submission of third party audit report. The necessary compliance to such protection audit report shall be followed up regularly in the respective RPC.	The third-party protection audit report shall contain information sought in the format enclosed as <u>Annexure-1</u> . The protection audit reports, along with action plan for rectification of deficiencies detected, if any, shall be submitted to the PCC and SLDC, as the case may be, within a month of submission of third party audit report. The necessary compliance to such protection audit report shall be followed up regularly in the respective PCC.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
37			15.5	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.	Annual audit plan for the next financial year shall be submitted by the users to PCC/SLDC/STU by 31st October. The users shall adhere to the annual audit plan and report compliance of the same to PCC/SLDC/STU.
38			15.6	Users shall submit the following protection performance indices of previous month to their respective RPC and RLDC on monthly basis for 220 kV and above (132 kV and above in NER) system, which shall be reviewed by the RPC:	Users shall submit the following protection performance indices of previous month to PCC & SLDC on monthly basis for 220 kV and above system, which shall be reviewed by the PCC/SLDC:
				(a) The Dependability Index defined as $D = N_c / N_c + N_f$ where, Nc is the number of correct operations at internal power system faults and Nf is the number of failures to operate at internal power system faults.	(a) The Dependability Index defined as (b) $D = N_c / N_c + N_f$ where, Nc is the number of correct operations at internal power system faults and Nf is the number of failures to operate at internal power system faults.
				(b) The Security Index defined as $S = N_c / N_c + N_u$ Where, Nc is the number of correct operations at internal power system faults and Nu is the number of unwanted operations.	(b) The Security Index defined as $S = N_c / N_c + N_u$ Where, Nc is the number of correct operations at internal power system faults and Nu is the number of unwanted operations.

PROPOSED MODIFICATIONS/CHANGES IN MEGC DRAFT:



Sr. No.	MEGC Regulation-2020		IEGC Regulation-2023		Proposed Changes in MEGC draft (Approved by 9 th PCC)
	Cl. No.	Regulation	Cl. No.	Regulation	
				(c) The Reliability Index defined as $R = N_c / N_c + N_i$ Where, N _c is the number of correct operations at internal power system faults and N _i is the number of incorrect operations and is the sum of N _f and N _u	(c) The Reliability Index defined as $R = N_c / N_c + N_i$ Where, N _c is the number of correct operations at internal power system faults and N _i is the number of incorrect operations and is the sum of N _f and N _u
39			15.7	Each user shall also submit the reasons for performance indices less than unity of individual element wise protection system to the respective RPC and action plan for corrective measures. The action plan will be followed up regularly in the respective RPC.	Each user shall also submit the reasons for performance indices less than unity of Individual element wise protection system to the respective PCC and action plan for corrective measures. The action plan will be followed up regularly in the respective PCC.
40			15.8	In case any user fails to comply with the protection protocol specified by the RPC or fails to undertake remedial action identified by the RPC within the specified timelines, the concerned RPC may approach the Commission with all relevant details for suitable directions.	In case any user fails to comply with the protection protocol specified by the PCC or fails to undertake remedial action identified by the PCC within the specified timelines, the concerned PCC may approach the Commission with all relevant details for suitable directions.

MODIFICATION IN DRAFT MEGC:

**TABLE 8 : REPORT SUBMISSION TIMELINE**

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.

Annexure - II



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.
CIN: U40109MH2005SGC153646

From, Name of office : Chief Engineer (STU) Office Address: Prakashganga, 4 th floor / 'A' Wing, Plot C -19, E - block, BKC, Bandra (E), Mumbai: - 400051. Contact No: (022) 2659 5176 (O) (022) 2659 5175 (P) Email id: cestu@mahatransco.in Website: www.mahastu.in	To, Executive Director (MSLDC) Maharashtra State Load Despatch Centre, Member Convener-GCC MSETCL, Airoli Email- edsldc@mahatransco.in
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No. MSETCL-9020/CO/CE-STU/GCC/

Date:

03330

24 APR 2026

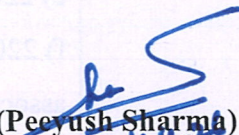
Sub: Submission of Agenda points for 19th Grid Coordination Committee (GCC) Meeting.

Ref: 1. ED, MSLDC letter No. ED/MSLDC/OP/GCC/905 Dated 21.04.2026

This office is in receipt of letter cited under ref (1) regarding submission of Agenda points for 19th Grid Coordination Committee (GCC) Meeting. Consolidated agenda points are enclosed herewith for discussion & deliberation in the 19th GCC Meeting.

This is submitted for further needful please.

Encl: As above


(Peeyush Sharma)
Chief Engineer
(State Transmission Utility)

Copy s. w. r. s. to:

- 1) The Director (Operations), CO, MSETCL, Mumbai.

Agenda List-19th GCC

Agenda Point No. 1	Scheme for work of replacement of existing ACSR conductor by High Performance Conductor of 1) 132kV Ambad- Jalna S/C line (36Ckm), 2) 132kV Ghansawangi – Tirthpuri S/C line (10.5Ckm), 3) 132kV Jalna Old – Utwad S/C line (33.29Ckm), 4) 132kV Mantha – Dusarbid SC line (26Ckm), 5) 132kV Nagewadi – Jalna Old S/C line (9.06 Ckm), 6) 220kV Jalna - Nagewadi S/C Line (5.17Ckm), 7) 220kV TP Sourya-Thaptitanda line (4Ckm), 8) 132kV Ghansawangi- Partur S/C line (38.20Ckm) & 9) 132kV Tirthpuri – Ambad S/C line (29Ckm) along with strengthening of associated end bays for RE power evacuation under EHV O&M Division, Jalna under Chhatrapati Sambhajinagar Zone. - To facilitate PPA with MSEDCL.
Agenda Point No. 2	Scheme of the work of replacement of existing 0.4 Zebra ACSR Conductor by High Performance Conductor of a) 220kV Harangul- Parli PG line (51Ckm) b) 220kV Harangul- ICL line (53.8 Ckm) c) 220kV Parli - ICL line (5 Ckm) d) 220kV Parli-PGCIL Ckt-II SCDC line (23.3 Ckm) e) 220kV Girwali-Murud SCDC line (44.3 Ckm) f) 220kV Kumbhargaoon-Jalkot D/C line (108 Ckm) along with strengthening of associated end bays for RE power evacuation under EHV O&M Circle, Parli, under Chhatrapati Sambhajinagar Zone. - To facilitate PPA with MSEDCL.
Agenda Point No. 3	Scheme of the work of replacement of existing 0.4 Zebra ACSR Conductor by High Ampacity Conductor of a) 220 kV Dhule - Dondaicha line (63 Km) and b) 220 kV Dhule - Amalner line (36.55 Km)

Sub: Submission of Agenda points for 17th Grid Coordination Committee (GCC) Meeting.

	along with bay equipments & strengthening of end bays (01 no. each at 220 kV Dondaicha Substation and 220 kV Amalner Substation & 02 nos. at 400/220 kV Dhule Substation (New switch yard) under EHV (O&M) Circle, Bhusawal.
Agenda Point No. 4	Work of enhancement of existing corridor of 220kV Kalwa-Mulund-Bhandup-Borivali Line by addition of LILO cable at 220kV GIS, Bhandup substation for Mumbai strengthening, under EHV O&M Division Kalwa.
Agenda Point No. 5	Replacement of 3X105MVA, 400/220/33kV ICT-I by 3x167MVA, 400/220/33kV ICT along with replacement of 1x105MVA, 400/220/33kV RRS unit by 1x167MVA, 400/220/33kV ICT at 400kV Dhule S/s under Nashik Zone.
Agenda Point No. 6	Replacement of 2 nos of 3x105MVA, 400/220/33kV ICTs by 2 nos of 3x167MVA, 400/220/33kV ICTs at 400kV Girwali S/s under Chh. Sambhaji Nagar Zone.
Agenda Point No. 7	Providing additional 1x50MVA, 132-110/33 kV Transformer along with HV & LV bays at 110 kV Vishrambag under Karad Zone.
Agenda Point No. 8	Providing additional 1x25MVA , 132-110/33 kV Transformer along with HV & LV bays at 110 kV Tasgaon S/s under Karad Zone.
Agenda Point No. 9	Addition of 1X50 MVA, 220/33kV T/F No.-5 along with 220kV AIS HV bay, 33kV GIS LV bay, 5x33kV GIS feeder bays, 1x33kV GIS Bus sectionalizer bay and 1x33kV GIS PT bay at 400kV Kharghar S/s under 400kV R.S. (O&M) Div., Kharghar.
Agenda Point No. 10	Addition of 1x25MVA, 132/33kV T/F along with HV & LV bays at 132kV Dharni S/s under Amravati Zone.
Agenda Point No. 11	Replacement of existing 2x25MVA, 132/33kV T/Fs by 2x50MVA, 132/33kV T/Fs at 132kV Deulgaon Raja S/s under Amravati Zone.
Agenda Point No. 12	Replacement of 2x100MVA, 220/132kV ICTs by 2x200MVA, 220/132kV ICTs at 220kV Belwandi S/s under Nashik Zone.

Sub: Submission of Agenda points for 19th Grid Coordination Committee (GCC) Meeting.

Agenda Point No. 13	Replacement of 1x25 MVA, 132/33kV T/F by 1x50MVA, 132/33kV T/F at 132kV Kuruli S/s under Pune Zone.
Agenda Point No. 14	Addition of 1x50MVA, 220/22kV T/F along with HV & LV bays at 220kV VSNL S/s under Pune Zone.
Agenda Point No. 15	Addition of 1x50MVA, 220/22kV T/F along with HV & LV bays at 220kV Theur S/s under Pune Zone.
Agenda Point No. 16	Addition of 1X100MVA, 220/22-22KV kV T/F along with HV & LV bays at 220kV Bhosari-I S/s under Pune Zone.
Agenda Point No. 17	Scheme for supply, installation and commissioning of Neutral Grounding Reactor (NGR) for Power Transformer at various substation under EHV O&M Division-I, Pune.
Agenda Point No. 18	Balance work of Conversion of 220 kV SCSC to 220 kV MCMC line from 400 kV Babhaleshwar S/sn. to Kopargaon Tap Point Dist. Ahmednagar, under Nasik Zone.
Agenda Point No. 19	220KV Additional source at 220/132/33 KV Kalmeshwar S/Stn by making LILO arrangement at Tower No. 72 of on-going 220KV Koradi –II to Butibori –III MCDC TL Ckt –II - (2.651 km).
Agenda Point No. 20	Establishment of 400/220 kV Ashti/Illur S/Stn, Dist. Gadchiroli.
Agenda Point No. 21	Establishment of 132/33kV Boris s/s Dist.-Dhule.
Agenda Point No. 22	Establishment of 400/132kV Hedri S/Stn, Dist. Gadchiroli.

Sub: Submission of Agenda points for 17th Grid Coordination Committee (GCC) Meeting.

Agenda Point No. 23	Vintage Line - CSN/Amravati : Upgradation of existing 132kV Balapur – Patur – Malegaon – Risod – Yeldari – Jintur – Parbhani SCSC line by composite 220kV/132kV MCMC Narrow Base Towers & Monopoles along with associated End Bays & Strengthening of Existing Bays.
Agenda Point No. 24	Establishment of 220 kV DCDC new corridor from Eklhare to Sinner.
Agenda Point No. 25	Construction of 220kV SC line from 220kV Hinjewadi-I to 220kV Hinjewadi-II s/s by using Under Ground Cable
Agenda Point No. 26	Scheme for Establishment of 220 kV switching station for providing Grid connectivity to M/s. Amazon Data Service India Pvt. Ltd., M/s. STT Global Data Centres India Pvt. Ltd. and other upcoming Data Centre Consumer in the Green integrated Data park premises of M/s. Lodha Developers Ltd. (Formerly M/s Macrotech Developers Ltd.) Tal. Ambarnath, Dist. Thane .
Agenda Point No. 27	Vintage Line Nashik: Upgradation of existing 132kV GCR Eklhare - Manmad DCDC line by Composite (220/132kV) M/C line <i>-(Revision in scope & cost)</i>
Agenda Point No. 28	Revision of cost of Conversion of existing 400 kV SCSC lines to 400kV DCDC lines on MC towers for formation of 04 circuits of 400kV Kalwa - Padghe Ckt-I, II, III & IV by using HPC.- <i>(Revision in cost)</i>
Agenda Point No. 29	Upgradation of TPC 220 kV Mahalaxmi S/s by creation of 400 kV Level <i>-(TPC-T Scheme)</i>
Agenda Point No. 30	220 kV Bhivpuri-Ambarnath D/C line LILO at South Kalmb <i>-(TPC-T Scheme)</i>
Agenda Point No. 31	Upgradation of existing 110 kV Khopoli-Bhivpuri line corridor by replacing existing conductor by higher capacity conductor along with four circuit towers <i>-(TPC-T Scheme)</i>

Sub: Submission of Agenda points for 19th Grid Coordination Committee (GCC) Meeting.

Agenda Point No. 32	Upgradation of existing 110 kV AIS at TPC-T Trombay RSS with GIS -(TPC Scheme)
Agenda Point No. 33	220 kV Malad (East) EHV scheme- <i>(Revision in scope & cost)</i> -(AEML-T Scheme)
Agenda Point No. 34	Online Dissolve Gas Analysis for Transformer/ Reactor - Healthiness of critical assets (Transformers and Reactors) units across MEGPTCL's current assets -(MEGPTCL Scheme)
Agenda Point No. 35	Proposed Amendments to the Maharashtra Electricity Regulatory Commission (Transmission Open Access) Regulations, 2016 (and Subsequent Amendments) in alignment with the Central Electricity Regulatory Commission (Connectivity and General Network Access) Regulations, 2022 (3rd Amendment)

 RIGHT TO INFORMATION	 MAHATransco Maharashtra State Electricity Transmission Co. Ltd. MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD. CIN NO. U40109MH2005SGC153646 Maharashtra State Load Dispatch Center Tele :91-022-27601762 (P) Office of The Executive Director 91-022-27601931 (O) Extn.1001 Maharashtra State Load Dispatch Center Email : edsldc@mahasldc.in Thane-Belapur Road, P.O. Airoli website : www.mahasldc.in Navi Mumbai Pin – 400 708.	
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Ref. No. ED/MSLDC/OP/GCC/ **00 100 2**

Date: **27 APR 2026**

To,
As per mailing list GCC Core Group Members.

Sub: - Additional Agenda for 19th Grid Coordination Committee (GCC) Meeting scheduled on 28.04.2026 at 15:00 hrs. at Prakashganga

Ref.: 1) Agenda request vide ED/MSLDC/OP/GCC/905 date: 21.04.2026
2) Agenda for 19th GCC vide ED/MSLDC/OP/GCC/971 dtd 24.04.2026

Dear Sir,

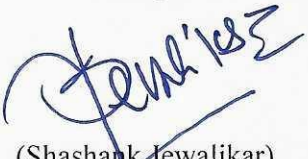
In reference to the above subject, please find attached herewith the Additional Agenda for the 19th GCC meeting is scheduled on 28.04.2026 at 15:00 Hrs at Corporate Office, Prakashganga.

It is requested to kindly make it convenient to attend the meeting physically. However, in case of any work exigencies, meeting may be attended through V.C for which the link will be shared separately.

Thanking you.

Encl: As above.

With regards,


 (Shashank Jewalikar)
 Executive Director, MSLDC
 and
 Member Convenor of GCC

Copy s.w.r. to:

The Director (Operations), Corporate Office, MSETCL, Mumbai.

Mailing List of GCC Core Group Members:

Sr. No.	Name of Organization	Name of Nominee/Designation	Committee Position	Contact No.	E-mail ID
1	MSETCL	Shri Satish Chavan, Director (Operations)	Chairperson	022-26492162	dirop@mahatransco.in
2	MSEDCL	Shri. Yogesh Gadkari Director (Commercial)	Member	022-26474211 / 26472131	directorcommsedcl@gmail.com
3	MSLDC	Shri. Shashank Jewalikar Executive Director (SLDC)	Member Convener	022-27301931	edsldc@mahatransco.in edsldc@mahasldc.in
4	MSETCL	Shri. Anil Bharsakle (CE Tr. O&M)	Member	8554995004	ceom@mahatransco.in
5	MSPGCL	Shri. Pankaj Nagdeote CE (Works)	Member	022-6942200 69843434 Ext. 3419	cegw@mahagenco.in
6	WRPC	Shri. P. D. Lone, S.E. Commercial	Member	9867622823	comml-wrpc@nic.in
7	MEDA	Shri Manoj Pise, General Manager	Member	9422319093	gmrdr@mahaurja.com

Agenda for 19th Grid Co-ordination Committee meeting scheduled on 28th April 2026 at 15:00 Hrs. at Corporate Office, Prakashganga.

Additional Agenda Points: -

Item No.4: Agenda from OCC

- 4.1** MSLDC had conducted meeting with all state discoms on the resource adequacy review on dt. 21st April 2026 and subsequently discussed in 13th OCC held on 27.04.2026. It has observed that distribution licensees are in firm resource deficit.

- Appraisal for GCC committee thereof.

4.2 Procedure for Black Start at various Generating Stations at Maharashtra

The revised Black Start Procedure was presented in 12th OCC held on 17.03.2026 at MSLDC Airoli after circulating to all stakeholders. The procedure highlights key gaps observed during black start operations at various locations. These include the non-availability of essential equipment at several substations, such as DG sets, battery sets, PMUs, synchroscopes, and communication devices.

Additionally, critical elements like isolators, breakers, and battery chargers are aged and are experiencing operational issues.

- Appraisal for GCC committee thereof.