



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)



[Formerly Power System Operation Corporation Limited (POSOCO)]

दक्षिण क्षेत्रीय भार प्रेषण केन्द्र / Southern Regional Load Despatch Centre

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संदर्भ : ग्रिड-इंडिया/द.क्षे.भा.प्रे.केंद्र /2025-26/May/07

दिनांक /Date: 15-05-2026

सेवा में/To

A per enclosed List

विषय / Subject: Grid Frequency Dip Event on 13.05.2026 -Observations and Compliance Requirements - reg.

Sir/Madam,

This is to bring to your kind notice that frequency dipped to 49.40 Hz at 14:09 Hrs on 13.05.2026, due to solar generation loss in the Western Region. Subsequently, the frequency recovered to around 49.55 Hz, initially aided by the operation of Under Frequency Relays (UFRs).

During the stressed grid conditions, all Southern Region constituents extended support to the grid. However, it was observed that Tamil Nadu was overdrawing up to 500 MW during the event.

As per information received from the SLDCs and SRLDC SCADA data, the UFR-based load relief details are as under:

Constituent	Stage	Quantum Approved	Quantum Installed	Quantum operated	Remarks	Quantum not operated
Andhra Pradesh	UFR STAGE 1	577	636	432	Data furnished by Andhra Pradesh	204
Telangana	UFR STAGE 1	685	446	243	Data furnished by Telangana	203
Karnataka	UFR STAGE 1	724	853	131	As per SRLDC SCADA data	722
Kerala	UFR STAGE 1	238	292	160	As per SRLDC SCADA data	132
Tamil Nadu	UFR STAGE 1	911	929	26	As per SRLDC SCADA data	903
Puducherry	UFR STAGE 1	25	26	11	As per SRLDC SCADA data	15

Further, load relief information from all States was sought vide communication dated 13.05.2026, followed by subsequent reminders. It is appreciated that the same has been furnished by Andhra Pradesh and Telangana.

It is once again reiterated that defence mechanisms, including UFR and df/dt schemes, shall be maintained in a healthy and operational state at all times to ensure grid security under all conditions.

दी गोविन्दराज
45/05/2026

It is also pertinent to highlight that during the frequency dip event, approximately 1800 MW of pumping load was in operation in the Southern Region, comprising:

- ~210 MW at Nagarjunasagar PSP
- ~1600 MW at Greenko PSP

It is appreciated that Nagarjunsagar, stopped pumping operation after issuing operational instruction.

In this regard, your kind attention is invited to Note-2 of Regulation 29(12) of the Indian Electricity Grid Code (IEGC) 2023, which stipulates the following:

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

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

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

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

In view of the above, all SLDCs are requested to:

1. Ensure adherence to the provisions of the Indian Electricity Grid Code (IEGC 2023)- Note-2 of Regulation 29(12)
2. Keep UFR / df/dt and other defence mechanisms fully functional and periodically validated.
3. Ensure timely and adequate load relief as per the approved scheme.
4. Avoid overdrawal under stressed grid conditions.
5. Expedite submission of pending load relief details, if not already furnished.

Your continued co-operation is solicited and appreciated at all times in maintaining the system parameters within IEGC range and ensuring safe, secure and integrated operation of the Grid.

भवदीय /Yours faithfully

वी गोविंदराज / V Govindaraj

मुख्य महाप्रबंधक / Chief General Manager
सिस्टम ऑपरेशन / System Operation

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