



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)

GRID CONTROLLER OF INDIA LIMITED

(A Government of India Enterprise) [Formerly (POSOCO)]

दक्षिण क्षेत्रीय भार प्रेषण केन्द्र/ Southern Regional Load Despatch Centre



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सन्दर्भ/Ref: एसआरएलडिसी SRLDC/SO/2026/

15-05-2026

सेवा मेरे/To

The Chief Engineer (Protection & Communication)

TANTRANSCO, 144, Annasalai, Chennai 600002

Sub: Inadequate Operation of UFR Stage-1 in TANTRANSCO During Frequency Dip on 13-05-2026

Madam,

It is to bring to your kind attention that during a Grid Disturbance (GD) event in the Western Region, leading to a sudden generation loss of around 8600 MW, the system frequency dipped to around 49.4 Hz at 14:09:53.800 Hrs. The corresponding frequency plot from the PMU data as observed at 400kV Sriperambadur is enclosed at Annexure-1. It is pertinent to mention that, as per the provisions of IEGC, Stage-1 of the Automatic Under Frequency Relay (UFR) scheme is required to operate at 49.4 Hz, and corresponding load relief is expected to be observed. However, it is a matter of concern that the Stage-1 UFR operation in TANTRANSCO was not observed to the extent envisaged under the approved scheme. Based on the analysis carried out using SCADA data at SRLDC, it has been observed that there was minimal or almost no-load relief during the event. The details are furnished below:

Constituent	Stage	Quantum Approved	Quantum Installed	Quantum operated	Quantum not operated	% UFR operation
Tamil Nadu	UFR STAGE 1	911	929	26	903	2.80%

The SCADA plot pertaining to UFR Stage-1 operation in Tamil Nadu is enclosed as Annexure-2, wherein the inadequate load relief during the frequency decline can be observed. The performance of the UFR scheme during such critical system conditions is extremely important, it acts as a vital defence mechanism for maintaining grid security and preventing further system deterioration. In view of the above, it is requested that a detailed analysis may kindly be carried out regarding the non-operation/inadequate operation of the UFR Stage-1 scheme. The root cause may kindly be identified, and necessary remedial measures may be taken on priority to avoid recurrence of such issues during critical grid conditions in future.

धन्यवाद, Thanking you,

भवदीय / Yours faithfully,

V. Govindaraj 15/05/2026

V. Govindaraj/ वी. गोविंदराज,

Chief General Manager (System Operation)/ मुख्य महाप्रबंधक (सिस्टम ऑपरेशन)

को कॉपी / Copy To:

- सदस्य सचिव एसआरपीसी, बेंगलूरु / Member Secretary SRPC, Bengaluru
- निदेशक (सिस्टम ऑपरेशन)/ Director (System Operation), ग्रिड-इंडिया /Grid-India, नई दिल्ली/New Delhi
- कार्यकारी निदेशक/ Executive Director, एनएलडीसी/NLDC, ग्रिड-इंडिया /Grid-India, नई दिल्ली/New Delhi
- कार्यकारी निदेशक एसआरएलडीसी बेंगलूरु/ Executive Director, SRLDC Bengaluru

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Frequency at Sriperambadur Bus (Hz) from PMU data



