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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Ref. No.: SRLDC/SO-2/HVDC/2026/ Date: 30.10.2026

To,

1. The Executive Director,
Power Grid Corporation of India Ltd.,
Southern Region Transmission System-II (SR-II),
Bengaluru.
2. The Executive Director,
Power Grid Corporation of India Ltd.,
Eastern Region Transmission System-II (ER-II),
Kolkata.

Subject: Early restoration of spare converter transformers at Talcher end of ±500 kV Talcher–Kolar HVDC system – reg.

Reference: 1. Minutes of the 241st OCC Meeting of SRPC.
2. Minutes of the 243rd OCC Meeting of SRPC held on 09.10.2026 (Item No. 18 – Status of spares of Talcher–Kolar HVDC system).

Sir,

The ±500 kV Talcher–Kolar HVDC link is one of the most critical inter-regional corridors for importing power into the Southern Region, and the availability of its full transfer capability is essential for secure grid operation and for meeting the demand of the Southern Region states.

As informed by PGCIL SR-II in the 243rd OCC meeting, HVDC Pole-1 tripped on 17.09.2026 at 11:28 hrs on operation of the Buchholz alarm in the R-phase converter transformer. The only healthy spare converter transformer available at the Talcher end was utilized to restore Pole-1 R-phase. The present status of the spares for the Talcher–Kolar HVDC system as informed by Power Grid and as recorded in the minutes, is as follows:

Spare	Location	Present status
Spare-1	Talcher	Healthy spare consumed on 17.09.2026. Repair of the removed converter transformer is to be taken up with Siemens for site inspection and internal inspection; matter under approval stage.
Spare-2	Talcher	Faulty converter transformer transported from Talcher and reached TARIL, Ahmedabad for repairs.
Spare-3	Talcher	Third faulty converter transformer under tendering stage; award to the successful bidder based on the outcome of the open tender.
Spare-1	Kolar	One healthy transformer available.

Consequently, **no healthy spare converter transformer is presently available at the Talcher end.** In this regard, the following concerns are brought to kind notice:

1. Any further failure of a converter transformer at the Talcher end would result in a loss of about 1,000 MW of transfer capability on the link, with a prolonged outage until a spare is made available.
2. Over the past two years, only one healthy spare converter transformer has been available at the Talcher end at any given time, which leaves the link without adequate contingency reserve.
3. The overloading capability of 2,500 MW has not been available for a considerable period, and the transfer capability of the link has been limited to 2,000 MW pending replacement of the converter transformers, as informed by PGCIL SR-II in the OCC.
4. Reduced and uncertain capability of this corridor constrains import into the Southern Region, particularly during high-demand and low-frequency periods, and affects the declaration of transfer capability and secure real-time operation.

In view of the criticality of the Talcher–Kolar HVDC link for the Southern Regional grid, your kind intervention and early action in the matter is solicited.

Thanking you,

Yours faithfully,

30/10/25

T. Srinivas
Executive Director

Copy to:

1. Member Secretary, SRPC, Bengaluru
2. Executive Director, ERLDC, Kolkata
3. Director (System Operation), Grid-India, New Delhi