



भारत सरकार Government of India
रेल मंत्रालय Ministry of Railways
रेलवे बोर्ड Railway Board



No.2007/M(C) 137/16VolVII

(E-File No.-3332292)
New Delhi, Date: 31.07.2023

Principal CME
RCF/Kapoorthala

ED/Carriage
RDSO, Lucknow

Sub: Pantograph entanglement in train no. 12285.
Ref: CR letter No. L.730. UOR. RB dated 26.07.2023.

Vide letter under reference above, the details of a case of Pantograph entanglement in Train No. 12285 & subsequently OHE damages at Km 726B/19 in Ballarshah- Wardha section of Nagpur Division of CR has been reported.

In this matter it is advised to examine the matter and take necessary action under intimation to this office.

The reply may also be mailed at somech538@gmail.com.

DA: As above

(सुमन कुमार तांती)
निदेशक / यांत्रिक इंजी. को.
रेलवे बोर्ड

C/-PCMEs/All Zonal Railways and PCME/ICF & MCF- for kind information and necessary action please.

396/010 AMCMG
27/07/2023

मध्य रेलवे
CENTRAL RAILWAY



511/EDME/CH
27/7/23

प्रधान कार्यालय, विद्युत शाखा
2 गी मंजिल, पार्सेल ऑफिस बिल्डिंग,
छत्रपती शिवाजी महाराज टर्मिनस, मुंबई

No. L 730 UOR.RB

Additional Member (ME)
Railway Board,
New Delhi.

EDME/CH
Letter to RDSO.
27/7/23

OSD/E/G
27/7/23

Dated: 26.07.2023

Sub:- Pantograph entanglement Train no. 12285 & OHE damages at Km 762B/19, in Ballarshah - Wardha section of Nagpur division of Central Railway on 06.07.2023

On 06.07.2023, pantograph of Train no. 12285 locomotive entangled with OHE at Km. 762B/19 in Ballarshah - Wardha section of Nagpur division of Central Railway. This resulted major damages to OHE and punctuality loss of many M/Exp. Trains.

On investigation of the panto entanglement case it was found that AC coach RMPU condenser unit SS wire cage of preceding train was came out and spiral SS wire of cage got entangled with OHE. The SS wire of RMPU cage which was hanging on OHE wrapped with Pantograph and caused the panto entanglement & further damages to OHE. The SS wire found entangled on OHE was of 2.5 mm dia. & 7.5 metre length which matches with the size of RMPU unit cage spiral SS wire.

It is seen that the SS wire cage of RMPU condenser unit is fixed with RMPU body by means of 4 nos nut bolts without check nuts & due to continuous vibration during train movement the nuts may got loosen resulting to such incident. It is also noted that there is no requirement of opening of this cage during maintenance as for any RMPU attention the complete top cover is opened. The photographs of RMPU condenser unit wire cage & SS wire entangled with OHE are enclosed.

In view of the above, it is suggested to advise RDSO for issuing suitable modification for proper fixing arrangement of RMPU condenser cage on RMPU body preferably to be welded with RMPU body cover. For existing RMPU in service the tag welding may be done in addition to fixing by 4 Nos. bolts, to avoid such failures in future.

(Naresh Pal Singh)
Principal Chief Electrical Engineer

C/- AM/RE:- For kind information, please.
- PED/RS/RDSO: For information & necessary action, please.

Sh. Naresh

