



सत्यमेव जयते

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**No. EL/3.2.172**

**Date: As signed**

**Principal Chief Electrical Engineer,**

**प्रधान मुख्य विद्युत अभियंता,**

i)	Central Railway, Mumbai CST-400001	मध्य रेलवे, मुम्बई, सीएसटी-400001
ii)	East Central Railway, Hazipur-844101	पूर्व मध्य रेलवे, हाजीपुर-844 101
iii)	East Coast Railway, Chandra Shekharpur, Bhubaneswar-751017	पूर्व तटीय रेलवे, चन्द्रशेखरपुर, भुवनेश्वर-751 017
iv)	Eastern Railway, Fairlie Place, Kolkata - 700 001.	पूर्व रेलवे, फेयर्ली प्लेस, कोलकाता-700 001
v)	North Central Railway, Block-A, Subedarganj, Allahabad- 211 033	उत्तर मध्य रेलवे, ब्लॉक ए-2, सुबेदारगंज इलाहाबाद - 211 033
vi)	Northern Railway, Badoda House, New Delhi-110001	उत्तर रेलवे, बड़ोदा हाउस, नयी दिल्ली - 110001
vii)	North Western Railway, Jaipur- 302 006	उत्तर पश्चिम रेलवे जयपुर- 302006
viii)	North Eastern Railway, Gorakhpur-273001	उत्तर पूर्व रेलवे गोरखपुर- 273001
ix)	North East Frontier Railway, Maligaon, Guwahati-781011	उत्तर पूर्व फ्रन्टीयर रेलवे मालीगाँव गुवाहाटी-781011
x)	South Central Railway, Secunderabad - 500371	दक्षिण मध्य रेलवे, रेल निलायम, सिकंदराबाद-500 371
xi)	South East Central Railway, Bilaspur - 495004	दक्षिण पूर्व मध्य रेलवे, बिलासपुर - 495 004
xii)	South Eastern Railway, Garden reach, Kolkata-700043	दक्षिण पूर्व रेलवे, गार्डनरीच, कोलकाता-700 043
xiii)	Southern Railway, Park Town, Chennai - 600003	दक्षिण रेलवे, पार्क टाउन, चेन्नई-600003
xiv)	South Western Railway, Hubli- 580020	दक्षिण पश्चिम रेलवे हुबली-580020
xv)	West Central Railway, Jabalpur-482001	पश्चिम मध्य रेलवे, जबलपुर - 482001
xvi)	Western Railway, Churchgate, Mumbai- 400 020	पश्चिम रेलवे, चर्चगेट, मुम्बई- 400 020
xvii)	Chittaranjan Locomotive Works, Chittaranjan-713331(WB)	चित्तरंजन रेल इंजन कारखाना, चित्तरंजन - 713331
xviii)	Banaras Locomotive Works, Varanasi - 221 004	बनारस रेल इंजन कारखाना, वाराणसी-221004
xix)	Patiala Locomotives Works, Patiala (Punjab)-147003	पटियाला रेल इंजन कारखाना, पटियाला (पंजाब)- 147003

Sub.: Amendment no. 2 to Modification Sheet No. RDSO/2022/EL/MS/0487 Rev. '0 dated 21.05.2022& it's subsequent amendment no. 1 dated 19.09.2023.

Ref.: (i) Item no. 25<sup>th</sup> of 42 MSG proposed by WR held at BLW on dated 23 & 24 May 2025.

(ii) Railway Board's letter no. 2024/Elect(TRS)/138/4 dated 15.07.2025.

1. Western Railways had raised the issue that if TMDDS switch operated in relay based (trailing) conventional locomotive during MU operation then DJ will not trip, panto will not lowered and no application of brake in leading locomotive. This is not desirable from safety point of view, to overcome this issue circuit modification has been done for safe working of TMDDS device in conventional locomotive during MU operation.
2. The modified circuit had been discussed in detail and found in order. To ensure proper working of TMDD during MU operation of conventional loco (relay based /MPCS based) necessary amendment in control circuit drawing had been done.

Circuit-1 : Traction Motor Dropping Detection System For Conventional Relay Based Locomotive.

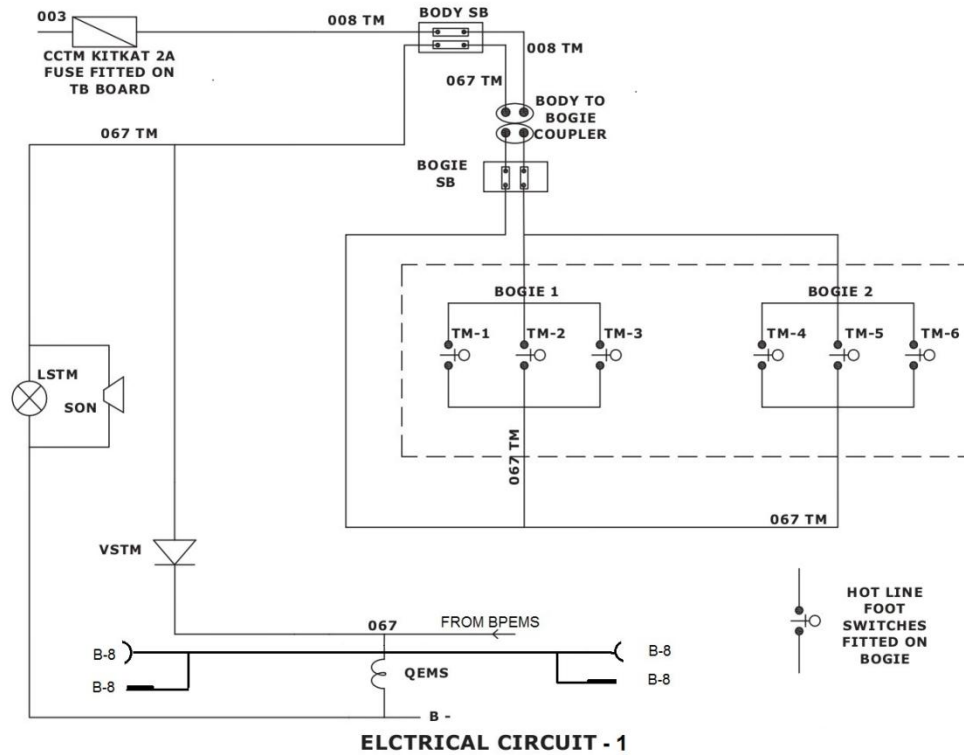
Circuit-2 : Traction Motor Dropping Detection System For MPCS equipped Conventional Locomotive.

3. Above modified circuits (1&2) are attached as Annexure-1 for your kind information and implementation please.

(Sanjay Kumar Tiwari)  
Executive Director/RS

DA: As above

### TRACTION MOTOR DROPPING DETECTION SYSTEM FOR RELAY BASED CONVENTIONAL LOCOMOTIVE



### TRACTION MOTOR DROPPING DETECTION SYSTEM FOR MPCs EQUIPPED CONVENTIONAL LOCOMOTIVE

