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13.03.24



**East Central Railway**

General Manager  
(Signal & Telecomm)  
ECR, Hajipur

No. ECR/S&T/Corres./Con/Div/2023/1  
(Comp.no.: -5369)

Dated: 12.03.2024

**Signal Policy- 05/2024**

Sr. DSTEs/  
DHN, DDU, DNR, SEE, SPJ  
ECR

**Sub:** Regarding Use<sup>of</sup> Format for DC Track Circuit History card for Relay End & Feed End related with Track Circuit measurement.

History card format of DC Track Circuit for Relay End & Feed End has been revised to be in line with latest IRSEM and has been approved by competent authority as per para 17.3.11 of IRSEM 2021. The same is attached.

Divisions are advised to ensure that the same is implemented in the division at the earliest under advise to this office.

Please acknowledge receipt & ensure compliance.

Encl.: Format of DC Track Circuit (in 04Pages)

*D. K. Chand*  
12/03/2024  
(D.K. Chand)  
Dy. CSTE/Sig/HJP  
For GM(S&T)  
ECR/HJP

Division.....

ECR DC Track Circuit History Card - Relay End

S&T/FORMAT-1

Agency	T1	T2	T3	T4	T5	Station .....TC No. .... LB No. ....
Technician (Signal)	Fortnightly	Fortnightly [In the presence of Sectional SSE/JE(Signal)]	...	...	...	Voltage/Current - P.U. .... D.A. .... Charger Make/Sr.no./Mfd Year.....
Sectional SSE/JE (Signal)	Monthly (On A.B.C routes) Quarterly (On D&E Routes)	Quarterly	...	** Half yearly	...	Relay OEM..... Type.....Sl. No./Mfd.Year ..... DOI - Relay ..... TF Charger .....
SSE (Signal)/ In Charge	Half Yearly	Half Yearly	Half Yearly	** Half yearly	Yearly	TF Alarm Wiring (Yes/No) ..... TC Length.....(Meters)

Date	Schedule done (T1/T2 /T3/T4 /T5)	TR Voltage/ Current (V/mA)	TR Voltage with 0.5Ω TSR at TF/TJ/TR end(V)	TPR Relay Voltage out (V)	Cleaning TRJB, LB, Tightening of all nuts	Checking and replacing defective wires/jumper cables etc.	Checking/ Replacing defective/corrosive track continuity bonds, channel pins.	Interchange R1 and R2 (not for QBAT) Only in QT2.	Signature & Designation

\*\* Sectional SSE/JE(Signal) & SSE(Signal)/Incharge to carry out alternatively once in Six months.

## 2411858/2024/O/o Dy.CSTE/Sig/HQ/ECR

Date	Schedule done (T1/T2 /T3/T4 /T5)	TR Voltage/ Current (V/mA)	TR Voltage with 0.5Ω TSR at TF/TJ/TR end(V)	TPR Relay Voltage out (V)	Cleaning TRJB, LB, Tightening of all nuts	Checking and replacing defective wires/jumper cables etc.	Checking/ Replacing defective/ corrosive track continuity bonds, channel pins.	Interchange R1 and R2 (not for QBAT) Only in T2.	Signature & Designation

\*\*Sectional SSE/JE(Signal) & SSE(Signal)/Incharge to carry out alternatively once in Six months.

Division.....

**ECR DC Track Circuit History Card - Feed End**

**S&T/FORMAT-2**

Agency	T1	T2	T3	T4	T5	
Technician (Signal)	Fortnightly	Fortnightly [In presence of Sectional SEE/JE(Signal)]	...	...	...	Station .....TC No. .... LB No. .... Voltage/Current - P.U. .... D.A. ....
Sectional SSE/JE (Signal)	Monthly (on A.B.C routes) Quarterly (On D&E Routes)	Quarterly	...	** Half yearly	...	Charger Make/Sr.no./Mfd Year..... Relay OEM..... Type.....Sl. No./Mfd.Year .....
SSE (Signal)/ In Charge	Half Yearly	Half Yearly	Half Yearly	** Half yearly	Yearly	DOI - Relay ..... TF Charger ..... TF Alarm Wiring (Yes/No) ..... TC Length.....(Meters)

Date	Schedule Done (T1/T2 /T3/T4 /T5)	Input Voltage - 110V AC (V)	Charger output Voltage/ Current (V/mA)	Value of Regulating Resistance (Ohm) /Voltage across RR/choke (V)	Feed End Voltage/ Current at TFJB (V/mA)	Cell - 1 (V/SG)	Cell - 2 (V/SG)	Cell - 3 (V/SG)	Total Battery Voltage	Cleaning of TFJB, LB, Tightening of all nuts	Checking and replacing defective wires/ jumper cables etc. TF Charger Alarm Check	Ensure electrolyte level, cleaning battery terminals, and apply petroleum jelly.	Signature & Designation

\*\* Sectional SSE/JE(Signal ) & SSE(Signal)/Incharge to carry out alternatively once in Six months.

2411858/2024/O/o Dy.CSTE/Sig/HQ/ECR

Date	Schedule done (T1/T2/T3/T4/T5)	Input Voltage - 110V AC (V)	Charger output Voltage/ Current (V/mA)	Value of Regulating Resistance (Ohm) /Voltage across RR/choke (V)	Feed End Voltage/ Current at TFJB (V/mA)	Cell - 1 (V/SG)	Cell - 2 (V/SG)	Cell - 3 (V/SG)	Total Battery Voltage	Cleaning of TFJB, LB, Tightening of all nuts	Checking and replacing defective wires/ jumper cables etc. TF Charger Alarm Check	Ensure electrolyte level, cleaning battery terminals, and apply petroleum jelly.	Signature & Designation

\*\*Sectional SSE/JE(Signal) & SSE(Signal)/Incharge to carry out alternatively once in Six months.