

89841/2020/O/o PED/SE/RDSO

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No. EL/3.1.35/17

Date: 10.07.2020

Principal Chief Electrical Engineers;

- Central Railway, HQs Office, 2nd floor, Parcel Office Bldg., Mumbai – 400 001
- Eastern Railway, Fairlie Place, Kolkata – 700 001
- East Central Railway, Hajipur (Bihar) – 844 101
- East Coast Railway, Railway Complex, Bhuvneshwar – 751 023
- Northern Railway, Baroda House, New Delhi – 110 001
- North Central Railway, Allahabad – 211 001
- South Central Railway, HQs Office, Rail Nilayam, Secunderabad – 500 071
- South East Central Railway, Bilaspur – 495 004
- South Eastern Railway, Garden Reach, Kolkata – 700 043
- Southern Railway, Park Town, Chennai – 600 003
- West Central Railway, HQs Office, Opp. Indira Market, Jabalpur – 482 001
- Western Railway, Churchgate, Mumbai – 4000 020
- Chittaranjan Locomotive Works, Chittaranjan – 713331 (WB)
- Diesel Locomotive Works, Varanasi – 221004
- Diesel Loco Modernisation Works, Patiyala – 147 003

Sub: Draft Modification Sheet for Energy Saving in 3-phase freight electric locomotives.

A draft Modification Sheet No. RDSO/2020/EL/MS/XXXX, Rev. '0' regarding 'Scheme for Energy Saving in 3-phase freight electric locomotives' has been prepared by this office and copy of the same is enclosed herewith.

It is requested to go through the draft MS and advise your valuable feedback/comment/suggestion, if any, to this office within fortnight so that the same could be finalized. .

Jitendra
Yadav
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 Jitendra Yadav
 Date: 2020.07.10
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(Jitendra Yadav)
 For Director General (Elect.)

Encl: As above.

Copy to:

Sr. Divisional Electrical Engineer (TRS), Electric Loco Shed,

- Central Railway, Ajni, Nagpur-440 008
- Central Railway, Kalyan, Maharashtra 421002
- Eastern Railway, Howrah
- East Central Railway, Gomoh-828 401
- East Coast Railway, Visakhapatnam, Andhra Pradesh – 530 009
- Northern Railway, Ghaziabad – 201 001
- Northern Railway, Ludhiana, Punjab – 141 001

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- North Central Railway, Fazal Ganj, Kanpur- 208012
- South Central Rly., Lallaguda, Secunderabad 500071
- South East Central Rly., Bhilai, Durg – 490 025
- South Eastern Railway, Tatanagar – 831 002
- South Eastern Railway, Bokaro – 827 001
- South Eastern Railway, Bondamonda, Rourkela, Odisha 769011
- Southern Railway, Royapuram, Chennai – 600 013
- West Central Railway, Tuglakabad, New Delhi-110044
- West Central Railway, New Katni Junction, MP - 483501
- West Central Railway, Itarasi – 461115
- Western Railway, Vadodara – 390 002

Encl: As above.

**Jitendra
Yadav**
(Jitendra Yadav)
For Director General (Elect.)

Digitally signed by
Jitendra Yadav
Date: 2020.07.10
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Comparison between existing circuit and modified scheme for energy saving mode

SN	CONDITION	NORMAL CONTACTOR POSITION		EXISTING			MODIFIED (Without Energy Saving Mode)		
		CLOSE	OPEN	LOAD SHARED BY			LOAD SHARED BY		
				BUR-1	BUR-2	BUR-3	BUR-1	BUR-2	BUR-3
1	ALL BUR OK	52/1	52/2	OCB	TM BLOWER	SCAVENGE BLOWER	OCB	TM BLOWER	COMPRESSURE
		52/3	52/4		OIL PUMP TRANSFORMER	COMPRESSOR		OIL PUMP TRANSFORMER	BATTERY CHARGING
		52/5	52.4/1		WATER PUMP SR	BATTERY CHARGING		WATER PUMP SR	
		52.4/2	52.5/2		AC			AC	
		52.5/1						TM SCV BLOWER	
2	BUR-1 ISOLATED	52/1	52/2	ISOLATED/	TM BLOWER	OIL PUMP TRANSFORMER	ISOLATED/FAULTY	TM BLOWER	OIL PUMP TRANSFORMER
		52/3	52/5	FAULTY	OCB	WATER PUMP SR		OCB	WATER PUMP SR
		52/4	52.4/2		TM SCV BLOWER	COMPRESSURE		TM SCV BLOWER	COMPRESSURE
		52.4/1	52.5/1			BATTERY CHARGING			BATTERY CHARGING
		52.5/2							
3	BUR-2 ISOLATED	52/3	52/1	TMB	ISOLATED/	OIL PUMP TRANSFORMER	TM BLOWER	ISOLATED/FAULTY	OIL PUMP TRANSFORMER
		52/4	52/2	OCB	FAULTY	WATER PUMP SR	OCB		WATER PUMP SR
		52/5	52.4/2	TM SCV		COMPRESSURE	TM SCV BLOWER		COMPRESSURE
		52.4/1	52.5/1	BLOWER		BATTERY CHARGING			BATTERY CHARGING
		52.5/2							
4	BUR-3 ISOLATED	52/2	52/1	TM BLOWER	OIL PUMP TRANSFORMER	ISOLATED/FAULTY	TM BLOWER	OIL PUMP TRANSFORMER	ISOLATED/FAULTY
		52/4	52/3	OCB	WATER PUMP SR		OCB	WATER PUMP SR	
		52/5	52.4/2	TM SCV	COMPRESSURE		TM SCV BLOWER	COMPRESSURE	
		52.4/1	52.5/1	BLOWER	BATTERY CHARGING			BATTERY CHARGING	
		52.5/2							

NOTE : AC will work only all BUR OK condition.

