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भारत सरकार - रेल मंत्रालय  
अनुसंधान अभिकल्प और मानक संगठन  
लखनऊ - 226 011  
Government of India-Ministry of Railways  
**Research Designs & Standards Organisation**  
LUCKNOW - 226 011

No. EL/3.2.19

Dated 30.09.99

**TECHNICAL CIRCULAR NO. ELRS/TC/0049 'REV'. 0**

**-Chief Electrical Engineer,**

- Central Railway, Mumbai CST – 400001.
- Eastern Railway, Calcutta – 700001
- Northern Railway, New Delhi – 110001
- Southern Railway, Park Town, Chennai – 600003
- South Central Railway, Secunderabad – 71
- South Eastern Railway, Garden Reach, Calcutta – 700043
- Western Railway, Churchgate, Mumbai – 400020
- Chittaranjan Locomotive Works, Chittaranjan – 713331

**Sub:** Change in the material of brake blocks for Electric Locomotives.

**Ref:** Railway Board's letter No. 94/M(N)/981/21 dated 27.3.95.

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Board vide their letter referenced above had advised all Zonal Railways to; switch over to medium phosphorus brake blocks in place of conventional CI brake blocks w.e.f. 1.4.95 for all rolling stock applications. This is so because life cycle of medium phosphorus brake blocks is about 50% more in comparison to conventional brake blocks of cast iron. The wear resistance of medium phosphorus brake block is also much superior to the wear resistance of conventional cast iron brake blocks. It is therefore requested that following change in material may be incorporated in RDSO's drg. No D/BG-1753 Alt '6') and drag. No. D/BG-1753/X2 Alt '6') for brake blocks of Electric Locomotives.

**Existing Material Specification**

**CI GR : 20 as per IS 210**

**New Material Specification**

**Phosphoric Iron to RDSO Specification**

No. M&C/MTD/101/94,  
Brinell Hardness –210-250

(O.H. Pande)

for Director General/Elect.

Copy to : As per mailing list

To : \_\_\_\_\_  
\_\_\_\_\_

(O.H. Pandey)

for Director General/Elect.