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ई.एल/2.2.13

Date: 27.04.2018

| प्रधान मुख्य विद्युत अभियंता:-   | Principal Chief Electrical Engineers:-   |
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| <ol style="list-style-type: none"> <li>1. मध्य रेलवे, मुम्बईसीएसटी-400 001</li> <li>2. पूर्व मध्य रेलवे, हाजीपुर-844 101</li> <li>3. पूर्वतटीय रेलवे, चन्द्रशेखरपुर, भुवनेश्वर-751 023</li> <li>4. पूर्व रेलवे, फेयर्ली प्लेस, कोलकाता-700 001</li> <li>5. उत्तर मध्य रेलवे, ब्लाक ए-2, सुबेदारगंज इलाहाबाद-211 033</li> <li>6. उत्तर रेलवे, बडौदा हाऊस, नई दिल्ली-110 001</li> <li>7. उत्तर पश्चिम रेलवे जयपुर- 302006</li> <li>8. उत्तर पूर्व रेलवे गोरखपुर- 273 001</li> <li>9. उत्तर पूर्व फ्रेन्टीयर रेलवे मालीगाँव गुवाहाटी-781011</li> <li>10. दक्षिण मध्य रेलवे, रेलनिलायम, सिकंदराबाद-500 371</li> <li>11. दक्षिण पूर्व मध्य रेलवे, बिलासपुर- 495 004</li> <li>12. दक्षिण पूर्व रेलवे, गार्डेनरीच, कोलकाता-700 043</li> <li>13. दक्षिण रेलवे, पार्क टाउन, चेन्नई-600 003</li> <li>14. दक्षिण पश्चिम रेलवे हुबली-580020</li> <li>15. पश्चिम मध्य रेलवे, जबलपुर-482 001</li> <li>16. पश्चिम रेलवे, चर्चगेट, मुम्बई- 400 020</li> <li>17. चित्तरंजन रेलइंजन कारखाना, चित्तरंजन- 713331</li> <li>18. डीजलरेलइंजनकारखाना, वाराणसी-221004</li> <li>19. इन्ट्रीगल कोच कारखाना, चेल्लाई-600 023</li> <li>20. रेल कोच कारखाना, कपूरथला (पंजाब)</li> <li>21. मेट्रो रेलवे, मेट्रो भवन, 33/1, जे.एल. लेहरु मार्ग, कोलकाता-700 071</li> </ol> | <ol style="list-style-type: none"> <li>1. Central Railway, Mumbai, CST-400 001.</li> <li>2. East Central Railway, Hazipur-844 101.</li> <li>3. East Coast Railway, Chandrashekharpur, Bhubaneswar-751 016.</li> <li>4. Eastern Railway, Fairlie Place, Calcutta-700 001.</li> <li>5. North Central Railway, Block-A, Subedarganj, Allahabad- 211 033.</li> <li>6. Northern Railway, Baroda House, New Delhi-110 001.</li> <li>7. North Western Railway, Jaipur- 302 006</li> <li>8. North Eastern Railway, Gorakhpur-273001</li> <li>9. North East Frontier Railway, Maligaon, Guwahati-781011</li> <li>10. South Central Railway, Secunderabad-500 071.</li> <li>11. South East Central Railway, Bilaspur-495 004.</li> <li>12. South Eastern Railway, Garden Reach, Kolkata-700 043.</li> <li>13. Southern Railway, Park Town, Chennai-600 003.</li> <li>14. South Western Railway, Hubli- 580020</li> <li>15. West Central Railway, Jabalpur-482 001.</li> <li>16. Western Railway, Churchgate, Mumbai-400 020</li> <li>17. Chittaranjan Locomotive Works, Chittaranjan-713 331</li> <li>18. Diesel Locomotive Works, Varanasi-221 004.</li> <li>19. Integral Coach Factory, Chennai- 600 038</li> <li>20. Rail Coach Factory, Kapurthala, Punjab</li> <li>21. Metro Railway, Metro Bhawan, 33/1, J.L. Nehru Road, Kolkata-700 071</li> </ol> |

**SPECIAL MAINTENANCE INSTRUCTION NO. RDSO/2018/EL/SMI/0322 (Rev '0')**  
**Dated 27.04.2018**

**Title:** Use of grease gun equipped with digital grease meter for greasing of rolling bearings of Traction Motor & MSU bearings of Electric locomotives.

**1. Brief History:**

- 1.1. Re-greasing quantity for various bearings is specified in respective maintenance manuals. However, during audits carried out by RDSO it is observed that sheds/workshops are using grease guns which are not having any grease meter attached and quantity is measured by

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way of manually counting the number of strokes and calculating average grease quantity per stroke. Measurement of grease quantity by counting number of strokes is not very accurate and there are chances of error in counting number of strokes or improper stroke which may lead to inadequate grease quantity being provided.

- 1.2. To improve the reliability of bearings it is advised that grease gun equipped with digital grease meter to be used to ensure provision of prescribed quantity of grease in bearings

**Object:**

To use grease gun equipped with digital grease meter for greasing of rolling bearings of TM & MSU bearing of Electric locomotives.

**2. Modified Instructions to replace existing instructions:**

- 2.1. During initial/re-greasing, it is recommended to use grease gun equipped with digital grease meter.

- 2.2. The details of grease meter are given below for reference:-

|      |                     |   |                 |
|------|---------------------|---|-----------------|
| i.   | Grease meter        | : | Digital type    |
| ii.  | IP rating           | : | IP 67           |
| iii. | Suitable grease     | : | NLGI 0 to 3     |
| iv.  | Accuracy            | : | ±3%             |
| v.   | Control Valve type  | : | continuous flow |
| vi.  | Unit of measurement | : | in grams        |

**3. Application to class of Locomotives:**

All Electric locomotives.

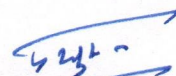
**4. Agency of Implementation:-**

All Electric Loco sheds/ workshop

**5. Periodicity of Implementation:**

During initial & re-greasing schedules

Encl: nil

  
27.9.18  
(P. K. Saraswat)  
for Director General/Electrical

**Distribution:** As per standard mailing list