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Government of India - Ministry of
Railways
Research, Designs & Standards
Organization, LUCKNOW - 226011

सं० : ईएल/3.2.61

दिनांक: 29.06.2005
1.7

मुख्य विद्युत अभियन्ता,


1. उत्तर रेलवे, बडौदा हाऊस, नई दिल्ली-110 001
2. पूर्व रेलवे, फेयरली प्लेस, कोलकता-700 001
3. दक्षिण-पूर्व रेलवे, गार्डन रीच, कोलकता-700 043
4. मध्य रेलवे, मुम्बई सी एस टी -400 001
5. पश्चिम रेलवे, चर्चगेट, मुम्बई -400 020
6. दक्षिण रेलवे, पार्क टाऊन, चेन्नई - 600 003
7. दक्षिण मध्य रेलवे, रेल नीलयम, सिकन्दराबाद - 500 071
8. पूर्व मध्य रेलवे, हाजीपुर (बिहार)
9. पूर्व तटीय रेलवे, भुवनेश्वर
10. दक्षिण पूर्व मध्य रेलवे, विलासपुर - 495 004
11. पश्चिम मध्य रेलवे, जबलपुर - 482 001
12. उत्तर मध्य रेलवे, इलाहाबाद - 211 001
13. चितरंजन लोकोमोटिव वर्क्स, चितरंजन-713 331

विषय: संशोधन शीट संख्या ईएलआरएस/एमएस/0340 (रिवीजन शून्य)

संदर्भ: इस कार्यालय का समसंख्यक पत्र दिनांक: 29.06.2005


उपरोक्त विषय में संदर्भित पत्र की एक प्रति आपके सूचनार्थ एवं आवश्यक कार्यवाही हेतु
संलग्न है।

संलग्नक: यथोक्त।


(हरि नारायण)
कृते महानिदेशक/विद्युत

प्रतिलिपि: सचिव (विद्युत), रेलवे बोर्ड, रेल भवन, नई दिल्ली-110 001 - सूचनार्थ।

संलग्नक: यथोक्त।


(हरि नारायण)
कृते महानिदेशक/विद्युत

जारी किया
शुभितवाशी
1.7.05

HINDI

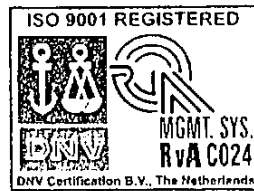
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लखनऊ - 226 011
Government of India - Ministry of Railways
Research Designs & Standards Organisation
Lucknow - 226 011



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No. EL/3.2.61

Dt. 29.06.05

All Chief Electrical Engineers,

MODIFICATION SHEET NO. ELRS/MS/ 0340 (REV. '0')

(This superseeds RDSO's earlier MS no. RDSO/WAM4/199 dated 10.03. 98)

1.0 TITLE:

Replacement of metallic corrugated steel pipe/out side steel braided flexible pipe by flexible reinforced rubber pipe connected in between VCB/Air blast circuit breaker & Air drier and main air pipe line to air drier.

2.0 OBJECT:

2.1 Railways have reported number of cases of heavy air leakage from metallic corrugated steel pipe/out side steel braided flexible pipe provided between circuit breaker & Air drier and main air pipe line to air drier resulting in loco failures. Trials conducted with flexible reinforced rubber pipe of M/s Swastik make by Electric loco shed, Kanpur had been successful in the past. It has, therefore been decided to use flexible reinforced (inside wire braided) rubber pipe in place of metallic corrugated steel pipe /out side steel braided flexible pipe.

2.2 Facility for physical and visual examination of outside surface of flexible reinforced rubber pipe provides timely detection & replacement of the damaged/cracked pipe where as surface crackness on visual examination of flexible pipe with outside wire braiding is not possible.

3.0 Existing Arrangement

Metallic corrugated steel pipe/out side steel braided flexible pipe connected in between VCB/Air blast circuit breaker & Air drier and main air pipe line to air drier.

4.0 Modified Arrangement

Replace the existing metallic corrugated steel pipe/out side steel braided flexible pipe by flexible reinforced rubber pipe connected in between VCB/Air blast circuit breaker & Air drier and main air pipe line to air drier.

5.0 APPLICATION TO THE CLASS OF LOCOMOTIVES:

All electric locomotives fitted with VCB/Air blast circuit breaker.

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6.0 MATERIAL REQUIRED:

6.1 02 Nos. assembly of flexible reinforced rubber pipes are required for each VCB/Air blast circuit breaker, details of which is given as under:-

- i) High pressure rubber hose pipe suitable for a working pressure of 20 Kg and having embeded steel wire braiding:-

O.D.	-	17.5 mm
I.D.	-	8.0 mm
Length	-	610 mm

- ii) High pressure rubber hose pipe suitable for a workinKg pressure of 20 Kg and and having embeded steel wire braiding:-

O.D.	-	17.5 mm
I.D.	-	8.0 mm
Length	-	25.4 mm

The above 02 Nos. rubber hose pipe should be provided with 3/8 inch metallic Swivel Nuts at both the ends. The metallic nuts should conform to ISS-226 GI coated SAE-100 R1.

6.2 MANUFACTURER:

Likely suppliers of above assembly of flexible reinforced rubber pipe are as under:

- i) M/s Swastik Rubber Products Ltd., Poona.
- ii) M/s SONI Enterprises, Kolkata.
- iii) M/s AEI Corporation Pvt. Ltd., Kolkata.
- v) M/s Taurian Tubes ,Jamshedpur

7.0 MATERIAL RENDERED SURPLUS:

existing metallic corrugated steel pipe/out side steel braided flexible pipe

8.0 REFERENCE :

Eastern Railway's letter No. EL/90/7/DJ/MC dated 24.02.2005

9.0 AGENCY OF IMPLEMENTATON:

- Electric Loco Sheds and POH shops for existing AC locomotives.
- CLW for AC locomotives under production.


(Hari Narayan)
for Director General (Elec.)