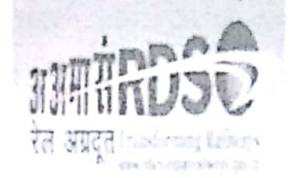


भारत सरकार – रेल मंत्रालय  
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Government of India  
Ministry of Railways  
Research, Designs & Standards  
Organization,  
LUCKNOW - 226011



No.EL/3.1.35/12

Date 12/03/2019

1. M/s Kharagpur Metal Reforming Ind. Pvt. Ltd.  
Howrah, West Bengal
2. Tirupati Engg. Works,  
71/D, Netaji subhash Road,  
(Gupta mansion 2nd floor),  
Kolkata-700001
3. Kaypee equipments pvt. Ltd.  
46/6/2, Chattarjee Para Lane,  
Kadamtala, howrah-711101
4. Saya industries,  
11/D Chetla central road,  
Kolkata-700027

**Sub:** Minutes of the meeting held at RDSO on 05.03.2019 to review the performance and reliability of Traction link used in 3-phase Electric Locomotives.

Minutes of the meeting held at RDSO on 05.03.2019 to review the performance and reliability of Traction link used in 3-phase Electric Locomotives is enclosed for your information and necessary action please.

( Pratibha gupta )  
for Director General/Electrical

Encl: As above

Copy to:

1. The Secretary (Elec.), Railway Board, New Delhi-110 001.  
(Kind Attn: Sri A. K. Goswami Dir/TRS)- for kind information please.
2. **Principal Chief Electrical Engineer,**
  - i. Central Railway, Mumbai, CST-400 001.
  - ii. East Central Railway, Hazipur-844 101.
  - iii. East Coast Railway, Chandrashekharpur, Bhubaneswar-751 016.
  - iv. Eastern Railway, Fairlie Place, Calcutta-700 001.
  - v. North Central Railway, Block-A, Subedarganj, Allahabad- 211 033.
  - vi. Northern Railway, Baroda House, New Delhi-110 001.
  - vii. North Western Railway, Jaipur- 302 006
  - viii. North Eastern Railway, Gorakhpur-273001
  - ix. North East Frontier Railway, Maligaon, Guwahati-781011
  - x. South Central Railway, Secunderabad-500 071.
  - xi. South East Central Railway, Bilaspur-495 004.
  - xii. South Eastern Railway, Garden Reach, Kolkata-700 043.
  - xiii. Southern Railway, Park Town, Chennai-600 003.
  - xiv. South Western Railway, Hubli- 580020
  - xv. West Central Railway, Jabalpur-482 001.
  - xvi. Western Railway, Churchgate, Mumbai-400 020
  - xvii. Chittaranjan Locomotive Works, Chittaranjan-713 331
  - xviii. Diesel Locomotive Works, Varanasi-221 004

For kind information  
and necessary  
action please

**Minutes of the meeting held at RDSO on 05.3.2019 regarding failure of Taction Link in  
3-phase Electric Locomotives**

**Members Present:**

RDSO(Smt/Shri)	Railway(Smt/Shri)	Firm(Smt/Shri)
O. P. Kesari PEDSE	Bachu ramesh DEE/TRS/RPM	Lakshman Bose Director, KMRI
Pratibha Gupta JDSE/Mech	A. Koreshwara Rao DEE/TRS/RPM	Ashis Chatterjee Asstt. QA/KMRI
Girraj Kishore DDSE/Mech	K. K. Rastogi DEE/ELS/GZB	Samir Kumar Datta GM/Marketing/TEW
Santosh Kumar SSE/Elect	Rajesh kumar Maurya SSE/ELS/BRC	
	Manish kumar SSE/ELS/GZB	
	Prateek Sahu SSE/ELS/NKJ	

A meeting was held at RDSO on 05.03.2019 to discuss the failures of traction link for 3-phase Electric Locomotives. During the meeting following points were discussed:

1. It was noted that no representative from CLW was present in the meeting. CLW is requested to send its representative in the meeting so that important issues can be discussed and action plan can be chalked out since vendor control of this item is with CLW.  
Sheds were advised that whenever any failure whether warranty or out of warranty is taking place, firm should be called for joint note and one copy of joint note should also be send to RDSO.
2. In the performance review meeting on 05.06.2018 in RDSO, it was decided that CLW should include taper in 20 mm length at both the ends. But till date CLW have not revised the drawing. CLW is requested to revise the drawing at the earliest.
3. It was informed by M/s KMRI that CLW has carried out quality audit of M/s KMRI in the month of January 2019. CLW is requested to send a copy of quality audit report to RDSO.
4. In order to estimate average life of present design of Traction link in IR conditions fatigue test of traction rod is required to be done. M/s KMRI informed that IIT Kharagpur has the facility for this type of test. It was decided that possibility of fatigue test getting done from IIT Kharagpur will be explored.
5. On the basis of performance received from Railways, make wise year wise FRPCPY of traction link is as given below:-

particulars	Make					
	KMRI			TEW		
	16-17	17-18	18-19 (upto jan'19)	16-17	17-18	18-19 (upto jan'19)
Population	1715	1874	2232	292	331	496
Failure	92	104	93	2	3	01
FRPCPY	5.36	5.55	3.47	0.68	0.91	0.17

It is noted that there is a reducing trend in failures in terms of FRPCPY, however our aim should be to eliminate all the failures since it is a safety item. M/s KMRI informed that they have improved the manufacturing process in Feb'2018, improvement in welding as suggested by RDSO are also included. Serial no. of modified traction link for WAP7/WAG9 is 3391 and for WAP-5 is 182.

6. DEE/ELS/LGD informed that even after this modification one traction link of M/s KMRI sr. no. 3630-05-18 failed in MPT during commissioning. M/s KMRI informed that they have visited the shed and accepted that there was some lacuna in their testing. Firm informed that they have improved their testing process after this failure.
7. Representative of M/s TEW was advised to send details of complete manufacturing and testing process of traction link to RDSO.

  
(Pratibha Gupta)

For Director General/Electrical