

भारत सरकार – रेल मंत्रालय  
अनुसंधान अभिकल्प और मानक संगठन  
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Government of India  
Ministry of Railways  
Research, Designs & Standards  
Organization,  
LUCKNOW - 226011



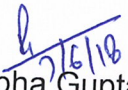
No.EL/3.1.35/12

Date 07/06/2018

Central Railway, Mumbai CST-400 001.  
Northern Railway, Baroda House, New Delhi-110 001.  
North Central Railway, Block A2, Allahabad- 211 033  
Eastern Railway, Fairlie Place, Kolkata -700 001.  
East Central Railway, Hazipur-844101.  
East Coast Railway, Chandrashekharpur, Bhubaneshwar-751016.  
Southern Railway, Park Town, Chennai-600 003.  
South Central Railway, Secunderabad-500 371.  
South Eastern Railway, Garden Reach, Kolkata -700 043.  
South Western Railway, 4<sup>th</sup> Floor, Laxmi Balakrishna Square  
Complex, Railway Station Road, Hubli- 580 020 (Karnataka).  
South East Central Railway, Bilaspur-495004  
Western Railway, Churchgate, Mumbai-400 020.  
West Central Railway, Jabalpur-482001.  
Chittaranjan Locomotive Works, Chittaranjan-713 331 (WB)

**Sub:** Minutes of the meeting held at RDSO on 06.6.2018 regarding failure of Elastic ring in 3-phase Electric Locomotives.

Enclosed please find Minutes of the meeting held at RDSO on 06.6.2018 regarding failure of Elastic ring in 3-phase Electric Locomotives.

  
( Pratibha Gupta )  
For Director General /Elect

Encl; As above

(a) The Secretary (Elect.), Railway Board, New Delhi-110 001- for kind information please.

(b) M/s Acla Werke, Frankfurter STR 142-190 KOLN D-51065, Germany.

(Through Indian Representative)

M/s. R.S.Technologies, 247, Dum Dum Park, 2<sup>nd</sup> floor, near 2 no. tank,  
Kolkata-700 055. (Email: rstechologies3@gmail.com)

(c) M/s Avadh Rail Infra Ltd., D-12, Industrial Area, Amausi, Lucknow- 226008.

(d) Sequoia safety products Pvt. Ltd., 4, pocket-1, Jasola, New Delhi-110015



**Minutes of the meeting held at RDSO on 06.6.2018 regarding failure of Elastic ring in 3-phase Electric Locomotives**

**Members Present:**

RDSO(Smt/Shri)	Railway(Smt/Shri)	Firm(Smt/Shri)
O. P. Kesari PEDSE	V. Surendranath DEE/ELS/LGD	Abhishek Saraff Avadh Rail Infra Ltd
Pratibha Gupta JDSE/C&S	K. Sukumar JEE/ELS/LGD	Mukul Bhaskar GM, Avadh Rail Infra Ltd
Santosh Kumar, SSE/Elect	Chhotelal chauhan JE/ELS/BIA	Mukesh kumar Verma Sequoia Safety Products Pvt. Ltd.
	Naresh Barot SSE/ELS/BRC	
	Pralay ambade SSE/ELS/AQ	

A meeting was held at RDSO on 06.6.2018 to discuss the failures of Elastic ring for 3-phase Electric Locomotives. During the meeting following points were discussed:

(i) Failure details received from sheds / Railways are as follow:

Rly/ Shed	Type of Loco	Particulars	Make								
			ACLA Werke			Avadh			SSPPL		
			15-16	16-17	17-18	15-16	16-17	17-18	15-16	16-17	17-18
NR	WAP-5	Population	150	152	106	26	60	170	NIL		
		Failure	13	16	23	0	0	2			
		FRPCPY	8.67	10.53	21.10	0	0	1.18			
	WAP-7	Population	211	190	106	97	170	230			
		Failure	52	29	5	0	0	3			
		FRPCPY	24.64	15.26	4.72	0	0	1.30			
LGD	WAP7	Population	212	216	288	NIL					
		Failure	8	8	15						
		FRPCPY	3.8	3.7	.65						
	WAG9	Population	432	448	248	16	20	115	8	12	77
		Failure	16	33	53	2	3	16	0	8	0
		FRPCPY	3.65	7.3	21.4	12.5	15	13.9	0	66.6	0
WCR	WAP7/ WAG9	Population	311	125	205	31	333	302	2	2	9
		Failure	2	0	16	0	0	0	0	0	0
		FRPCPY	0.64	0	7.80	0	0	0	0	0	0
BIA	WAP- 7/WAG- 9H	Population	226	257	300	39	96	153	3	3	3
		Failure	27	19	0	0	0	0	0	0	0
		FRPCPY	11.94	7.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KYN	WAG-9	Population	252	256		NIL					
		Failure	0	0	0						
		FRPCPY	0.00	0.00	0.00						
AQ	WAP-7	Population	50	57	101	10	12	15	NIL		
		Failure	9	0	2	1	2	0			
		FRPCPY	18	0.00	1.98	10	16.66	0.00			
	WAG-9	Population	518	526	504	50	58	80			
		Failure	19	7	2	2	4	0			
		FRPCPY	3.66	1.33	0.39	4	6.89	0.00			



Failure rate of M/s Avadh and M/s SSPPL is higher.

- (ii) Quality audit of M/s Avadh Rail Infra Ltd Haridwar was done on 14 & 15/12/2017. During the quality audit firm informed that they have changed the curing process as per the advice of OEM. M/s Avadh Rail Infra Ltd were advised to submit revised QAP with changed curing process.
- (iii) During the quality audit of m/s SSPPL some deficiencies were noticed. M/s SSPPL were advised to submit the compliance of quality audit at the earliest.
- (iv) PEDSE advised that the sheds should follow the replacement schedule of elastic ring i.e. during alternate TOH.
- (v) Sheds were advised to call the firm for joint inspection in case of any premature failure i.e. before 4 year of service of elastic ring and a copy of joint note should be sent to RDSO also.
- (vi) All firms should ensure embossing of their name and manufacturing month and year in the elastic ring.

  
(Pratibha Gupta)

For Director General/Electrical