



सत्यमेव जयते

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/3.2.108/3-ph

Date: 19.05.2017

**Chief Electrical Engineers,**

1. Northern Railway, Baroda House, New Delhi-110001.
2. South Central Railway, Secunderabad-500 071.
3. South East Central Railway, Bilaspur-495004.
4. Chittaranjan Locomotive Works, Chittaranjan – 713 331

**Sub:** Minutes of the meeting regarding failures of axle box bearings.

The minutes of the meeting regarding failures of axle box bearings held at RDSO on 18.05.2017 is enclosed herewith for your kind information and necessary action please.

(Pratibha Gupta)  
for Director General/ Electrical

**Encl:** Copy of minutes of meeting

**Copy to:**

1. Secretary (Electrical), Railway Board, Rail Bhawan, New Delhi-110001  
(Kind Attn: Sri A. K. Goswami DEE(RS) /Railway Board)  
: for kind information please.
2. Sr. Divisional Electrical Engineer (TRS)/Electric Loco Shed,
  - i. Northern Railway, Ghaziabad -201 001
  - ii. South Central Railway, Lallaguda, Secunderabad-520 017
  - iii. South East Centre Railway, BMY Complex, Bhilai, Durg-490 025: for kind information and necessary action please.
3. M/s National Engineering Industries Ltd.,  
Khatipura road, Jaipur,  
Rajasthan – 302 006-: for necessary action please

(Pratibha Gupta)  
for Director General/ Electrical

**Minutes of the meeting held at RDSO on 18.05.2017 on failures of axle box bearing in WAP7 locos**

**Present:**

RDSO(S/Shri/Mrs)	NBC (S/Shri)
O P Kesari, EDSE-(Co-ord)	Giriraj Maheshwari, Business head-Marketing.
Pratibha Gupta, JDSE /C&S	A K Mittal, Advisor-Research & Development.
Girraj Kishore, ADE/C&S	Shivdutt Sharma, AGM.
U B Yadav, SSE/D/Elect.	Amrendra Singh, Asstt. Manager.

A meeting was held at RDSO in the chamber of EDSE (Co-Ord) to discuss about the root cause of two recent failures of axle box bearings of WAP-7 Loco. Details of failures are given below:-

SN	Loco No.	Shed	Date of fitment	Date of failures	Make	Failure detail/Reason
1	30246	GZB	30.04.2017	07.05.2017	NBC	Wheel no. 4 axle box smoke emission and grease out and hot axle
2	30260	LGD	25.04.2017	30.04.2017	NBC	Bearing seized due to cage broken

During the meeting following points were discussed:-

1. It was observed that both the failed bearings are of NBC make of lot no. 17-B & 17-C only.
2. Detailed investigation of loco no. 30260 of ELS/LGD was discussed. Detailed investigation of loco no. 30246 of ELS/GZB is yet to be done.
3. Firm has supplied total 614 no. of bearings of 17-B & 17-C lot. Details of the same are as given below:-

Consignee	Supply Quantity	Quantity fitted in locos
CLW	510	260
BIA	52	01
LGD	40	12 (Already all removed)
GZB	12	12 (All in loco no. 30246)

List of locos fitted with this lot of bearings by CLW shall be intimated to concerned Railways/sheds for needful actions.

4. It was decided that ELS/BIA, ELS/LGD & CLW should stop using this lot of bearings immediately.
5. Performance of locos on which these lots of bearings have been fitted should be closely monitored by sheds for any hot axle running.
6. Firm has to replace all defective lot bearings lying in shed immediately and the bearings fitted on loco shall be replaced as and when these bearings are removed from locos by the shed. The firm shall assist in replacement by providing new bearings.
7. New bearings replaced by the firm should be provided on locos by sheds in presence of firm representative and trial run of loco should also be done to monitor the performance of replaced bearings.
8. Rollers of defective lot of bearings are collected from ELS/LGD shall be got tested in RDSO.

M/s NBC

Giriraj Maheshwari, Business head-Marketing.

Shivdutt Sharma, AGM.

RDSO/LKO  
*U. B. Yadav*  
18.5.17  
(U. B. Yadav)  
SSE/D

*Shivdutt*  
19/05/2017  
*Amrendra Singh*  
*U. B. Yadav*