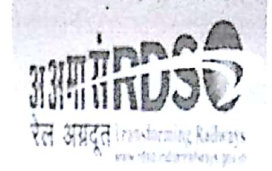


भारत सरकार – रेल मंत्रालय  
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लखनऊ – 226011  
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e-mail : dse4cs@gmail.com



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



No.EL/3.2.119(CBC)

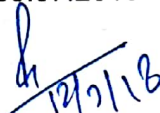
Date 12/07/2018

### Chief Electrical Engineer

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, Bhubaneswar-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 05.07.2018 regarding failure of CBC coupler in Electric locomotives.

Enclosed please find Minutes of the meeting held at RDSO on 05.07.2018 regarding failure of CBC coupler in 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) Raneka Industries Ltd.,  
Plot No.15,16,17, Sector-3 (Sagore),  
Pithampur, Distt.- Dhar (MP)  
Pin-454775

(c) ED/QA (Mech)

(d) ED/ Motive Power

For information and  
necessary action please

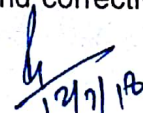
**Minutes of the meeting held at RDSO on 05.7.2018 regarding failure of CBC in Electric Locomotives**

**Members Present:**

<b>RDSO(Smt/Shri)</b>	<b>Railway(Smt/Shri)</b>
Pratibha Gupta JDSE/Mech	Sathiyarathan Sr.DEE/RS/ED
S. P. Govil Jt. Dir/MP	T. S. Unnikrishnan. SSE/ELS/ED
M. A. Khan AIE/QA(Mech)	<b>Firm(Smt/Shri)</b>
Santosh Kumar, SSE/Elect	Madhu Krishnan M/s Raneka
Sanjay Prasad SSE/MP	

A meeting was held at RDSO on 05.7.2018 to discuss the failures of M/s Raneka make E-type CBC coupler in Electric Locomotives. During the meeting following points were discussed:

1. Large no. of failures of M/s Raneka make E-type CBC coupler were reported from Zonal railways. Sr.DEE/RS/ED reported that failures in new CBCs are being found during DPT/MPT. Firm informed that they have started DPT/MPT. However DPT/MPT is not included in the drawing. Drawing may be revised to include DPT/MPT.
2. Photograph of one no. failed draft gear of loco no. 27458 was shown by Sr.DEE/RS/ED. He informed that the welding on the end plate was only surficial. Firm was advised to improve the quality of welding.
3. Firm was already advised before meeting to investigate the root cause of failure of failed CBC but firm has not visited any shed and prepared joint note. Firm was advised to send technical person to shed for joint inspection whenever a failure is reported.
4. As per the test report of Loco workshop/Perambur submitted by ELS/ED of one of the failed CBC casting defect (cavity, porosity) was found. As the quality of CBC of M/s Raneka is deviating, QA/Mech the vendor approving authority for CBC can do an out of turn quality audit of the firm.
5. M/s Raneka informed that radius of curve at the corners of yoke is not defined in the drawing. Yoke failures are mainly due to the crack in the C-section. Drawing no. SK-62724 of Item 3 may be revised to include smooth curvature on the corners.
6. It was also decided that SR should send one no. of failed sample to RDSO for detailed investigation.
7. Details of all the failures reported from zonal railways have been given to firm. Firm was advised to inform root cause analysis of failures and corrective action plan.

  
(Pratibha Gupta)

For Director General/Electrical