

Id 17016

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भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकला और मानक संगठन
लखनऊ - 226 011
Government of India - Ministry of Railways
Research Design & Standards Organisation
Lucknow - 226 011

MC/TRC

Date: 05.11.2014

महाप्रबन्धक (इंजीनियरिंग)

1. मध्य रेलवे, छत्रपति शिवाजी टर्मिनस, मुम्बई - 400001
2. पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 700001
3. उत्तर रेलवे, बडौदा हाउस, नई दिल्ली - 110001
4. दक्षिण रेलवे, पार्क हाउस, चेन्नई - 600003
5. दक्षिण मध्य रेलवे, रेल निलायम, सिकन्दराबाद - 500071
6. दक्षिण पूर्व रेलवे, गार्डेन रीच, कोलकाता - 700043
7. पूर्वोत्तर रेलवे, गोरखपुर - 273012
8. पूर्वोत्तर सीमान्त रेलवे, मालीगाँव, गुवाहाटी - 781011
9. पश्चिम रेलवे, चंचंगेट, मुम्बई - 400020
10. पूर्व मध्य रेलवे, हाजीपुर - 844101
11. पूर्व तटीय रेलवे, बीडीए रेंटल कालोनी, रेलवे काम्प्लेक्स, चन्द्रशेखरपुरा, भुवनेश्वर, उड़ीसा - 751016
12. उत्तर मध्य रेलवे, हास्टिंग रोड, इलाहाबाद - 211001
13. उत्तर पश्चिम रेलवे, जयपुर - 302006
14. दक्षिण पश्चिम रेलवे, दुबली - 580023
15. पश्चिम मध्य रेलवे, जबलपुर - 482001
16. दक्षिण पूर्व मध्य रेलवे, आर ई आफिस काम्प्लेक्स, बिलासपुर - 495004

Sub: Amendment no. 01 to Final Speed Certificate for operation of EOG AC Track Recording Car LHB variant Coach (LWTRC) fitted with FIAT bogies
i) On track maintained to other than C&M-I, Volume-I standard (Part-I) &
ii) On track maintained to C&M-I, Volume-I standard (Part-II).

Ref: This office speed certificate of even no. dated 23.08.2013.

Please find enclosed herewith a copy of Amendment no. 01 dated 31.10.2014 for above referred speed certificate, already issued. Copies of the said amended speed certificate endorsed to Mechanical, Electrical, Operating and S&T Branches of your Railways are also being enclosed herewith and the same may please be forwarded to the respective Branches accordingly.

DA: As above

(A.K. Dikshit)
Joint Director/Carriage

1. Secretary (Mech., Elec. & Engg/G, S & T), Railway Board, Rail Bhawan, New Delhi-110 001.
2. मैनेजिंग डायरेक्टर, कोंकण रेलवे कार्पोरेशन लिमिटेड, बेलापुर, नवी मुम्बई - 400 614.
3. Chief Commissioner of Railway Safety, DRM Office Compound NE Railway, Lucknow-226 001.
4. ED/Motive Power, RDSO, Lucknow
5. ED/B&S, RDSO, Lucknow
6. ED/Track, RDSO, Lucknow
7. ED/TM, RDSO, Lucknow

(A.K. Dikshit)
Joint Director/Carriage

O/c

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भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226 011
Government of India - Ministry of Railways
Research Designs & Standards Organisation
Lucknow-226 011

AN ISO 9001
CERTIFIED
ORGANISATION

MC/TRC

Date: 31 -10.2014

महाप्रबन्धक (इन्जी०)

1. मध्य रेलवे, छत्रपति शिवाजी टर्मिनस, मुम्बई - 400001
2. पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 700001
3. उत्तर रेलवे, बडौदा हाउस, नई दिल्ली - 110001
4. दक्षिण रेलवे, पार्क टाउन, चेन्नई - 600003
5. दक्षिण मध्य रेलवे, रेल निलायम, सिकन्दराबाद - 500071
6. दक्षिण पूर्व रेलवे, गार्डेन रीच, कोलकाता - 700043
7. पूर्वोत्तर रेलवे, गोरखपुर - 273012
8. पूर्वोत्तर रीमान्त रेलवे, मालीगौव, गुवाहाटी - 781011
9. पश्चिम रेलवे, चर्चगेट, मुम्बई - 400020
10. पूर्व मध्य रेलवे, हाजीपुर - 844101
11. पूर्व तटीय रेलवे, बीडीए रेंटल कालोनी, रेलवे काम्पलेक्स, चन्द्रशेखरपुरा, भुवनेश्वर, उड़ीसा - 751016
12. उत्तर मध्य रेलवे, हास्टिंग रोड, इलाहाबाद - 211001
13. उत्तर पश्चिम रेलवे, जयपुर - 302006
14. दक्षिण पश्चिम रेलवे, हुबली - 580023
15. पश्चिम मध्य रेलवे, जबलपुर - 482001
16. दक्षिण पूर्व मध्य रेलवे, आर ई आफिस काम्पलेक्स, बिलासपुर - 495004

Sub: Amendment no. 01 to Final speed certificate for operation of EOG AC Track Recording Car LHB variant Coach (LWTRC) fitted with FIAT bogies.

- (i) On track maintained to other than C&M-I, Volume-I standard (Part -I) &
- (ii) On track maintained to C&M-I, Volume-I standard (Part-II).

Ref.: (i) This office speed certificate of even no. dated 23.08.2013
(ii) Railway Board letter no. 87/M (C) /202/10 Vol (II) Pt. dated 13.06.2014.

Vide reference (i) above "Final speed certificate was issued for operation of EOG AC Track Recording Car LHB variant Coach fitted with FIAT bogies.

- (i) On track maintained to other than C&M-I, Volume-I standard (Part -I) &
- (ii) On track maintained to C&M-I, Volume-I standard (Part-II)."

Vide reference (ii) Railway Board has communicated the Transportation code as "LRZAC" of subject coach. Accordingly, the relevant paras of said speed certificate have been modified duly incorporating "transportation code" which shall be read as under:

Subject:

Final speed certificate for operation of EOG AC Track Recording Car LHB variant Coach (LRZAC) fitted with FIAT bogies.

- (i) On track maintained to other than C&M-I, Volume-I standard (Part -I) &
- (ii) On track maintained to C&M-I, Volume-I standard (Part-II).

(Part –I)

1. RCF has built EOG AC Track Recording Car LHB variant Broad Gauge Coaches whose transportation code is LRZAC. Salient features are as under:-
 - (i) Coach is manufactured as per RCF drawing no. TY90005 & is fitted with Fiat bogies.
 - (ii) This coach is similar to existing LHB AC EOG Chair car coach.
 - (iii) The speed potential for operation/trial of this coach is 160/180 kmph.
 - (iv) Coach has been built with state of the art technology and provided with Disc Brakes and Transition Coupling.
 - (v) Length of the coach over body is 23540mm & that over couplers is 24000mm.
 - (vi) Overall height of coach from rail level is 4039mm.
 - (vii) Wheel base is 2560 mm & axle load is 16.25t.
 - (viii) Complete details of axle load, wheel spacing, length of couplers, minimum height from rail level, other principal dimensions, bogie, wheels, brake, electrical system, coupler, earthing device etc are provided in "Maintenance Manual for LHB Coach" issued by CAMTECH Gwalior in year 2013.
 - (ix) This is a departmental coach exclusively meant for use of staff engaged in track recording & monitoring work.
 - (x) Passenger Emergency Alarm Signal Device (PEASD) is provided for emergency communication between passengers & train Driver.
 - (xi) Vestibules are provided at both ends of coach respectively & also exit doors on each side of the coach are provided for quick evacuation purpose.

1.1 LRZAC is similar to LHB AC EOG Chair car (LWSCZAC). Detailed oscillation trials of LHB AC EOG Chair car (LWSCZAC) have been conducted up to maximum speed of 115 km/h and results are contained in RDSO's Report no. MT-233. On the basis of satisfactory results of oscillation trials this chair car has been cleared to run up to a maximum speed of 105 km/h on track maintained to other than C&M-I, Vol.-I standard vide this office letter no. MC/LHB/COACH dated 14.03.2001. On the basis of LHB AC EOG Chair car, CCRS/Lucknow has accorded sanction for dispensation of oscillation trials for EOG AC Track Recording Car LHB variant Coach vide letter no. क्यू-17016/02/2011- तक्रि/48 dated 09.03.2011.

2. Based on the above, it is certified that EOG AC Track Recording Car LHB variant Coach (LRZAC) is fit for operation upto maximum speed of 105 KMPH and fit upto 115 kmph exclusively for track recording and monitoring work on track maintained to other than C&M-I, Vol. I standard of Indian Railways subject to the conditions given below.

2.2.5 This clearance is subject to the following parameters of EOG AC Track Recording Car LHB variant Coach (LRZAC)

(i) Maximum Axle Load	:	16.25 t
(ii) Maximum Braking Force	:	5.8 t
(iii) CG height above rail level	:	Not exceeding 1830 mm

2.5 Rolling Stock

2.5.1 The LHB AC EOG Track Recording Car LHB variant Coach (LRZAC) fitted with fiat bogie shall be maintained as per "Maintenance Manual for LHB Coach" issued by CAMTECH Gwalior in year 2013. In addition:-

- (i) The LHB wheel set shall be as per RCF drawing no. LW02001 (copy enclosed).

- (ii) Limits of wheel shelling shall be followed as defined vide RDSO letter no. MC/WH/SHL dated 23.02.2009 (copy enclosed).
- (iii) Running temperature of CTRB shall be as legislated vide RDSO letter no. MC/RB/GENL dated 10.09.2006 (copy enclosed).
- (iv) Standardization of location for axle box temperature shall be as stipulated vide RDSO letter no. MC/RB/GENL dated 06.01.2010 (copy enclosed).
- (v) Periodic maintenance schedules & standards (safety limits) to be followed in respect of safety items & instructions regarding operation of rolling stock in case of failure of any of the safety items shall be as provided in "Maintenance Manual for LHB Coach" issued by CAMTECH Gwalior in year 2013.

(Part –II)

1. RCF has built EOG AC Track Recording Car LHB variant Broad Gauge Coaches whose transportation code is LRZAC. Salient features are as under:-
 - (i) Coach is manufactured as per RCF drawing no. TY90005 & is fitted with Fiat bogies.
 - (ii) This coach is similar to existing LHB AC EOG Chair car coach.
 - (iii) The speed potential for operation/trial of this coach is 160/180 kmph.
 - (iv) Coach has been built with state of the art technology and provided with Disc Brakes and Transition Coupling.
 - (v) Length of the coach over body is 23540mm & that over couplers is 24000mm.
 - (vi) Overall height of coach from rail level is 4039mm.
 - (vii) Wheel base is 2560 mm & axle load is 16.25t.
 - (viii) Complete details of axle load, wheel spacing, length of couplers, minimum height from rail level, other principal dimensions, bogie, wheels, brake, electrical system, coupler, earthing device etc are provided in "Maintenance Manual for LHB Coach" issued by CAMTECH Gwalior in year 2013.
 - (ix) This is a departmental coach exclusively meant for use of staff engaged in track recording & monitoring work.
 - (x) Passenger Emergency Alarm Signal Device (PEASD) is provided for emergency communication between passengers & train Driver.
 - (xi) Vestibules are provided at both ends of coach respectively & also exit doors on each side of coach are provided for quick evacuation purpose.
- 1.1 LRZAC is similar to LHB AC EOG Chair car (LWSCZAC). Detailed oscillation trials of LHB AC EOG Chair car (LWSCZAC) have been conducted up to maximum speed of 180 km/h and results are contained in RDSO's Report no. MT-240. On the basis of satisfactory results of oscillation trials, this chair car has been cleared to run up to maximum speed of 160 km/h on track maintained to C&M-I, Vol.-I standard vide this office letter no. MC/LHB/COACH dated 19.03.2003. On the basis of LHB AC EOG Chair car, CCRS/Lucknow has accorded sanction for dispensation of oscillation trials for EOG AC Track Recording Car LHB variant Coach vide letter no. यू-17016/02/2011- त०वि०/48 dated 09.03.2011.
- 2 Based on the above, it is certified that EOG AC Track Recording Car LHB variant coach (LRZAC) is fit for operation upto maximum speed of 160 kmph and fit upto maximum speed of 180 kmph exclusively for track recording and monitoring work on track maintained to C&M-I, Vol. I standard of Indian Railways subject to the conditions given below.

2.2.5 This clearance is subject to the following parameters of EOG AC Track Recording Car LHB variant Coach (LRZAC)

(i) Maximum Axle Load	:	16.25 t
(ii) Maximum Braking Force	:	5.8 t
(iii) CG height above rail level	:	Not exceeding 1830 mm

2.5 Rolling Stock

2.5.1 The LHB AC EOG Track Recording Car LHB variant Coach (LRZAC) fitted with fiat bogie shall be maintained as per "Maintenance Manual for LHB Coach" issued by CAMTECH Gwalior in year 2013. In addition:-

- (i) The LHB wheel set shall be as per RCF drawing no. LW02001 (copy enclosed).
- (ii) Limits of wheel shelling shall be followed as defined vide RDSO letter no. MC/WH/SHL dated 23.02.2009 (copy enclosed).
- (iii) Running temperature of CTRB shall be as legislated vide RDSO letter no. MC/RB/GENL dated 10.09.2006 (copy enclosed).
- (iv) Standardization of location for axle box temperature shall be as stipulated vide RDSO letter no. MC/RB/GENL dated 06.01.2010 (copy enclosed).
- (v) Periodic maintenance schedules & standards (safety limits) to be followed in respect of safety items & instructions regarding operation of rolling stock in case of failure of any of the safety items shall be as provided in "Maintenance Manual for LHB Coach" issued by CAMTECH Gwalior in year 2013.

संलग्नक:

Railway Board letter no. 87/M (C) /202/10 Vol (II) Pt. dated 13.06. 2014.



(सी. मधुसूदन राव)

कार्यकारी निदेशक मात्रक/चालन शक्ति

प्रतिलिपि:

1. सचिव (गैके० /इलेक्ट/इंजीनियरिंग-जी), रेलवे बोर्ड, रेल भवन, नई दिल्ली-110 001
2. मुख्य रेल संरक्षा आयुक्त, मण्डल रेल प्रबन्धक कार्यालय, पूर्वोत्तर रेलवे परिसर, अशोक मार्ग लखनऊ- 226 001
3. महाप्रबन्धक (गैके० /इलेक्ट/ओपरेटिंग/एस एण्ड टी)
 - i) मध्य रेलवे, छत्रपति शिवाजी टर्मिनस, मुम्बई- 400 001.
 - ii) पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 700 001.
 - iii) उत्तर रेलवे, बड़ौदा हाउस, नई दिल्ली - 110 001.
 - iv) दक्षिण रेलवे, पार्क टाउन, चेन्नई - 600 003.
 - v) दक्षिण मध्य रेलवे, रेल निलायम, सिकन्दराबाद - 500 071.
 - vi) दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता - 700 043.
 - vii) पूर्वोत्तर रेलवे, गोरखपुर - 273 012.
 - viii) पूर्वोत्तर सीमान्त रेलवे, मालीगौव, गुवाहाटी - 781 011.

- ix) पश्चिम रेलवे, चर्चगेट, मुम्बई - 400 020.
x) पूर्व मध्य रेलवे, हाजीपुर - 844 101.
xi) पूर्व तटीय रेलवे, बी.डी.ए. रेंटल कालोनी, रेलवे काम्पलेक्स, चन्द्रशेखरपुरा, भुवनेश्वर, उड़ीसा-751016.
xii) उत्तर मध्य रेलवे, हार्लिंग रोड, इलाहाबाद - 211 001.
xiii) उत्तर पश्चिम रेलवे, जयपुर 302 006.
xiv) दक्षिण पश्चिम रेलवे, हुबली - 580 023.
xv) पश्चिम मध्य रेलवे, जबलपुर - 482 001.
xvi) दक्षिण पूर्व मध्य रेलवे, आर ई आफिस काम्पलेक्स, बिलासपुर - 495 004.

4. मैनेजिंग डायरेक्टर, कॉकण रेलवे कार्पोरेशन लिमिटेड, बेलापुर, नवी मुम्बई - 400614

संलग्नक:

Railway Board letter no. 87/M (C) /202/10 Vol (II) Pt. dated 13.06. 2014.



(सी. मधुसूदन राव)

कार्यकारी निदेशक मानक/चालन शक्ति

भारत सरकार GOVERNMENT OF INDIA
रेल मंत्रालय MINISTRY OF RAILWAYS
(रेलवे बोर्ड RAILWAY BOARD)

No.87/MC/202/10 Vol(II) Pt.

New Delhi, dated 13.06.2014

The Director General (Carriage),
RDSO/Lucknow.

Sub: Layout of LHB EOG AC Track Recording Car and LHB EOG AC Track Recording Staff Car.

Ref.: RDSO's letter No.MC/LHB /Layout dated 27.3.2014.

Reference above, it is confirmed that following transportation codes should be followed.

S.NO	Type of coach	Transportation Code
1	EOG AC Track Recording Car LHB variant Coach	LRZAC
2	Track Recording Staff Car LHB variant coach	LRDAC

This is for your kind information.


12/06/14
(Prashant Kumar)
Dir. Mech. Engg. (Chg.)
Railway Board