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**AMENDMENT NO. 2 OF SPEED CERTIFICATE FOR OPERATION OF SELF-PROPELLED 8 WHEELER INSPECTION & MAINTENANCE OHE CAR UNDER SLUNG TYPE (8W-DETC)**

**No. MC/8W DETC/BEML**

**Date: 22.12.2020**

महाप्रबन्धक (इंजीनियरिंग),

1.	मध्य रेलवे, छत्रपति शिवाजी महाराज टर्मिनस मुम्बई -400 001	10.	उत्तर मध्य रेलवे, सुबेदारगंज, प्रयागराज - 211 011
2.	पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 700 001	11.	उत्तर पश्चिम रेलवे, जयपुर - 302 006
3.	उत्तर रेलवे, बडौदा हाऊस, नई दिल्ली - 110 001	12.	पूर्व मध्य रेलवे, हाजीपुर - 844 101
4.	पूर्वोत्तर रेलवे, गोरखपुर - 27 3001	13.	पूर्व कोस्ट रेलवे, रेलवे कॉम्प्लेक्स, भुवनेश्वर - 751023
5.	पूर्वोत्तर फ्रन्टियर रेलवे, मालीगाँव गुवाहाटी- 781 011	14.	दक्षिण पश्चिम रेलवे, हुबली - 580023
6.	दक्षिण रेलवे, एनेक्सी, पार्क टारुन, चेन्नई - 600 003	15.	पश्चिम मध्य रेलवे, जबलपुर - 482 001
7.	दक्षिण मध्य रेलवे, रेल निलायम, सिकन्दराबाद - 500 071	16.	दक्षिण पूर्व मध्य रेलवे, बिलासपुर - 495 004
8.	दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता - 700 043	17.	मैनेजिंग डायरेक्टर, कोंकण रेलवे कार्पोरेशन लिमिटेड, बेलापुर, नवी मुम्बई - 400614
9.	पश्चिम रेलवे, चर्च गेट, मुम्बई - 400020		

**Sub:** Amendment No.2 of final speed certificate for operation of self-propelled 8 Wheeler Inspection & maintenance OHE car under slung type (8W-DETC), manufactured by M/s. BEML Bangalore, having pneumatic suspension in secondary stage, up to a maximum speed of 100 Kmph on track maintained as per standard specified under Para 607 of IRPWM Reprint - 2004.

**Ref:** (i) RDSO speed certificate no. MC/8W DETC/BEML, dated 21.08.2019 followed with amendment no. 1 dated 11.11.2019.  
(ii) Central railway letter No. L 574.TRD. Vehicle Maint. Dated 08.06.2020.  
(iii) Railway Board letter no. 2013/CE-II/TK/IRPWM dated 07.07.2020.

Vide ref. (i) RDSO issued final speed certificate for operation of self-propelled 8 Wheeler Inspection & Maintenance OHE car of Diesel Electric under slung type (8W-DETC), manufactured by M/s. BEML Bangalore up to a maximum operational speed of 100 Kmph. Track Directorate has advised that Railway Board vide ref. (iii) has approved redrafted IRPWM where para refereeing track standard has been reviewed. Central Railway vide ref (ii) has also advised to issue an amendment to final speed certificate as some conditions pertaining to trial are included in final speed certificate under the heading "para 2.3 Signaling".

In view of above, final speed certificate at ref.(i) has been examined. Subject, Para 2.0, 2.1.3, 2.1.4, 2.1.5 are modified due to change of track standard from existing "track maintained as per standard specified under para 607 of IRPWM Reprint - 2004" to "track maintained as per provisions of Indian Railways Permanent Way Manual, June 2020,

containing track geometry standards under para 522”; Para 2.2.3 revised for clarity; Para 2.3 replaced due to revised comments submitted by Signal Dte. and new para 2.5.3 has been added. Accordingly, amended subject, Para 2.0, Para 2.1.3, Para 2.1.4, Para 2.1.4, Para 2.2.3, Para 2.3 Signalling and new Para 2.5.3 of speed certificate at ref. (i) shall be read as under:

<b>Sub:</b>	Final speed certificate for operation of 8 Wheeler Inspection & maintenance OHE car under slung type (8W-DETC), (self-propelled) manufactured by M/s. BEML Bangalore, having pneumatic suspension in secondary stage, up to a maximum speed of 100 Kmph on track maintained as per provisions of Indian Railways Permanent Way Manual, June 2020, containing track geometry standards under para 522.
<b>2.0</b>	Based on the above, it is certified that self-propelled 8 Wheeler Inspection & maintenance car of Diesel Electric under slung type (8W-DETC) manufactured by M/s. BEML is fit for operation up to maximum speed of 100 Kmph and is capable of running at a speed of 75 Kmph with 2 loaded flat wagons weighing 120 t (each of 60 t) at tangent track maintained as per provisions of Indian Railways Permanent Way Manual, June 2020, containing track geometry standards under para 522, subject to following conditions:
<b>2.1.3</b>	The maximum permissible speed on curves shall be decided on the basis of existing provisions of the Indian Railways Permanent Way Manual, June 2020.
<b>2.1.4</b>	The welds shall be protected by joggled fish plates as per provisions of USFD Manual, AT welding Manual and other policy instructions of Railway Board. The maintenance of Rails and Rail joints shall be ensured as per provisions of Indian Railways Permanent Way Manual, June – 2020. In addition, wherever condition warrants on account of corrosion on rail/weld collar, wear on rail, cupping of welds etc., necessary precautions shall be taken for fish plating/joggled fish plating.
<b>2.1.5</b>	Zonal Railway may ensure further detailed examination of track as deemed fit based on age cum condition basis, overdue renewal and condition of formation etc. as per provisions of Indian Railways Permanent Way Manual, June -2020 regarding permanent way renewals and may suitably restrict maximum speed of operation based on such examination.
<b>2.2.3</b>	The clearance is subject to following parameters of 8Wheeler Diesel Electric Tower Car (8W-DETC) stock: (i) Maximum design axle load = 20.32t (ii) Maximum Tractive effort per axle = 2.55 t (iii) Maximum Braking force per axle = 9.006t (iv) Maximum Braking force at rail level per axle = 2.25t (v) C.G. height from Rail Level (Tare/ loaded) = Not exceeding 1335/1420 mm
<b>2.3</b>	<b>SIGNALLING:</b>
<b>2.3.1</b>	Provisions of GR, SR, SEM & all extant instructions issued from time to time as applicable shall be complied with.
<b>2.5.3</b>	In case of any secondary air spring gets deflated during operation, the maximum speed of this rolling stock shall be brought down to 60 kmph, and this rolling stock shall be withdrawn from service and brought for attention to a maintenance shed or taken to a siding as situation demands, at the earliest opportunity.

संलग्नक:- Nil.

**(बी. के. अग्रवाल)**

कार्यकारी निदेशक मानक/चालन शक्ति

प्रतिलिपि:

1. सचिव {यांत्रिक / इलेक्ट्रिकल / 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. महाप्रबंधक (यांत्रिक / विद्युत / परिचालन / संकेत एवं दूरसंचार),

1.	मध्य रेलवे, छत्रपति शिवाजी महाराज टर्मिनस मुम्बई - 400 001	10.	उत्तर मध्य रेलवे, सुबेदारगंज, प्रयागराज - 211 011
2.	पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 700 001	11.	उत्तर पश्चिम रेलवे, जयपुर - 302 006
3.	उत्तर रेलवे, बडौदा हाऊस, नई दिल्ली - 1100 01	12.	पूर्व मध्य रेलवे, हाजीपुर - 844 101
4.	पूर्वोत्तर रेलवे, गोरखपुर - 27 3001	13.	पूर्व कोस्ट रेलवे, रेलवे कॉम्प्लेक्स, भुवनेश्वर - 751 023
5.	पूर्वोत्तर फ्रन्टियर रेलवे, मालीगाँव गुवाहाटी - 781 011	14.	दक्षिण पश्चिम रेलवे, हुबली - 580023
6.	दक्षिण रेलवे, एनेक्सी, पार्क टाऊन, चेन्नई - 600 003	15.	पश्चिम मध्य रेलवे, जबलपुर - 482 001
7.	दक्षिण मध्य रेलवे, रेल निलायम, सिकन्दराबाद - 500 071	16.	दक्षिण पूर्व मध्य रेलवे, बिलासपुर - 495 004
8.	दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता - 700 043	17.	मैनेजिंग डायरेक्टर, कोंकण रेलवे कार्पोरेशन लिमिटेड, बेलापुर, नवी मुम्बई - 400614
9.	पश्चिम रेलवे, चर्च गेट, मुम्बई - 400020		

संलग्नक:- Nil.

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(वी. के. अग्रवाल)

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