आज़ादी का अमृत महोत्सव

भारत सरकार Government of India
रेल मंत्रालय Ministry of Railways
(रेलवे बोर्ड Railway Board)

Azadi Ka Amrit Mahotsav

No. 2020/CEDO/SR/25 **New Delhi, Dated 10.06.2022**

The Director General
Research Designs &
Standards Organisation
Manak Nagar,
Lucknow-226011.

The General Manager,
All Indian Railways

Managing Director,
DFCCIL,
5th Floor, Supreme Court,
Metro Station Building Complex,
New Delhi – 110001.

Sub: Introduction of Broad Gauge Bogie Open wagon type '**BOXNS**' having Maximum Axle Load: **25t** to RDSO's drawing no. WD-14014-S-01 Alt.8 up to a maximum speed of (i)**100 kmph in Empty** and **Loaded** condition for *an interim period of two years* and **100 kmph in Empty & 90 kmph in Loaded** condition afterwards over routes of **Western DFC** and (ii)**100kmph in empty** and **75 kmph in loaded** condition over routes of **Eastern DFC**, by DFCCIL

Ref: (i) RDSO's FSC No. MW/SPD/BG/BOXNS/DFC, dated 26.02.2020
(ii) RDSO's letter No. MW/SPD/BG/BOXNS/DFC, dated 24.02.2021 & 06.08.2021
(iii) CCRS office letter No.Q.12011/19/2020-21-T.W (Part) dated 06.09.2021
(iv) Railway Board's letter No. 2020/CEDO/SR/25 dated 27.09.2021

With reference to RDSO above application, sent through the Chief Commissioner of Railway Safety, Lucknow; sanction of the Ministry of Railways, Railway Board is hereby communicated for introduction of Broad Gauge Bogie Open wagon type '**BOXNS**' having Maximum Axle Load: **25t** to RDSO's drawing no. WD-14014/S-01 Alt.8 upto a maximum speed of (i)**100kmph in Empty** and **Loaded** condition for *an interim period of two years* and **100 kmph in Empty & 90 kmph in Loaded** condition afterwards over routes of **Western DFC** and (ii) up to **100kmph in empty** and **75kmph in loaded** condition over **Eastern DFC**, by DFCCIL, with the following stipulations:

i. Oscillation trials to be conducted over run down DFC track with worn wheel profile & instrumented measuring wheel within **a period of two years** from Board's sanction of subject rolling stock.

ii. EBD and Coupler Forces trials to be done as mandated under Para 2 & 3 of Annexure -2 of Policy Circular-6 dated 31.10.2018 and their report submitted to Commission **within a period of one year**.

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iii. Validity of BPC (Premium & CC type of rakes) of BOXNHL type of wagons shall be followed for BOXNS wagon also.

iv. Member Engineering, Railway Board vide DO letter no. 2011/CE-II/TS/DFC dated 15.10.2018 has authorized MD/DFCCIL to permit the running of 25t freight trains **on 60 kg 90 UTS rails** at 100 kmph or at any other speed considered appropriate by him on DFC tracks along with the mitigating measures laid down in the referred letter. The mitigation measures shall be ensured by DFCCIL.

v. **Zonal Railways and DFCCIL should issue JPO regarding immediate exchange of information** in case of any kind of accident on their Railway line and actions to be taken thereafter.

vi. Observance of all conditions laid down in RDSO's Final Speed Certificate No. MW/SPD/BG/BOXNS/DFC, Dated 26.02.2020. Remarks of the DFCCIL against each Para of the Speed Certificate shall be submitted to the Commission before the start of actual operation of rolling stock.

vii. Observance of all the permanent and temporary speed restrictions already in force and/or those that may be imposed from time to time on various accounts.

viii. Periodic rail grinding at stipulated frequency should be carried out on routes by ensuring the availability of traffic blocks.

ix. Railway should ensure installation of way side lubricators as per provision of IR P.Way manual in a time bound manner.

x. Location of bridges on which speed restrictions have been imposed shall be notified by the Railways and incorporated in the working Timetable so that all operating staff is aware of the instructions.

xi. For running of BOXNS having axle load 22.82t and above, on track having rail of **strength less than 110 UTS,** the ***WILD shall mandatorily be provided*** before introduction of wagon at speed above 60 kmph. For speed up to 60kmph the WILD *may be progressively installed.* 100% weighment of loaded wagons (except consignment exempted from weighment) shall be ensured at the loading points to avoid running of overloaded wagons on track.

xii. Signaling requirement with respect to maximum permissible speed as per standard of Interlocking given in Indian Railways Signal Engineering Manual, July 2021, para no. 7.8.9 shall be followed.

xiii. No overdue track/rolling stock maintenance shall be permitted.

xiv. Right powering of loaded trains running with 25t axle loaded wagons shall be ensured

xv. Rolling stock should not be mixed up with other stock having less axle load or speed potential.

xvi. Brakes of the locomotive and the rake of the wagons shall be in good working order during the operation.

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xvii. **Before initiating the operation,** GGM (Mechanical) of the DFCCIL will get the track worthiness certified from the adjoining/concerned Zonal Railways. **Proper maintenance of the rolling stock shall also be ensured.**

xviii. Infield instrumentation of rails to be done to determine actual in-service rail stresses under various limiting conditions.

xix. Installation of measuring wheel on the rolling stock to capture real time rail-wheel forces by running it periodically for working out critical forces and planning maintenance intervention, if required, to be done.

xx. **For interoperability of BOXNS 25t axle load wagons over IR & DFC routes, BOXNS 25t shall operate over Indian Railway only with maximum speed up to 100 kmph in empty and 45kmph in loaded condition and after following the Railway Board's letter no. 2020/CEDO/SR/25 dated 27.09.2021.**

xxi. BOXNS shall operate over Indian Railway & DFCCIL with maximum length of **wheel flat restricted to 45 mm** and **condemning wheel dia. limited to 800mm** minimum.

10/6/22

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निदेशक सिविल इंजीनियरिंग(जी)/रेलवे बोर्ड
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No. 2020/CEDO/SR/25 **New Delhi, Dated 10.06.2022**

Copy forwarded for information to :

1. The Chief Commissioner of Railway Safety, Office Compound of DRM/NER, Ashok Marg, Lucknow, w.r.t. his endorsement No. Q.12011/19/2020-21-T.W (Part) dated 06.09.2021
2. The Commissioner of Railway Safety, All Circles
3. Executive Director (Standards) Motive Power, RDSO, Lucknow
4. Executive Director (Standards) Track-I, RDSO, Lucknow
5. Executive Director ME(Fr.), Railway Board

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