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

RBE No. 102/2026

No. E(MPP)2026/16/1 **New Delhi, Dated: As signed**

The General Managers,
All Zonal Railways

Sub: Revision of manpower Yardstick of Bridge Department.

The yardstick for Bridge line staff and Supervisors of Bridge department has been reviewed by Board.

2. The revised yardstick as approved by Board (CRB & CEO) is enclosed as Annexure to this letter.

3. The requirement of Manpower for the said activities should be reviewed based on the revised yardstick. The manpower for the existing assets should be reviewed, based on the revised yardstick and excess posts, if any, may be surrendered/ redistributed.

4. This supersedes all earlier instructions on the yardstick for above activities, issued in the past.

5. All the clarifications/queries/references, if any, regarding revised yardstick are to be made to CE(B&S) Directorate, Railway Board.

6. The activities identified to be outsourced by bridge organization may include:

i. The removal of track ballast on ballasted deck bridge.

ii. Scaffolding arrangements.

iii. Modernizing the inspection methodology through use of modern tools and equipment, i.e. binoculars, digital cameras, specialized drones, survey/mapping etc.

iv. Work of oiling and greasing.

7. One single trolley can be taken for assessing the yardstick and balance requirement (if any) can be supplemented with hired vehicle.

8. This issues with the concurrence of Finance Directorate of the Ministry of Railways.

9. Please acknowledge the receipt.

Digitally signed by
AMIT SINGH MEHRA
Date: 13-11-2026
11:28:16

(अमित सिंह मेहरा)
निदेशक/ एम.पी.पी.
रेलवे बोर्ड

Copy forwarded for information to:

1. PFAs, All Indian Railways and Production Units, DG/RDSO, DG/NAIR & CTIs.
2. The Dy. Comptroller & Auditor General of India (Railways), Room No.224, Rail Bhawan, New Delhi.

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Avninder Singh Bhasin
Date: 13-11-2026
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Tejendra Singh
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कृत प्रधान कार्यकारी निदेशक (आई.आर.)/ रेलवे बोर्ड

Annexure

No. E(MPP)2026/16/1 **New Delhi, Dated: As signed**

Manpower Yardstick formula for Bridge Department

The approved manpower yardstick, for Bridge line staff and Supervisor is given as under:

(i) For manpower of bridge line staff:

Total Manpower **Mtotal = Mf+Mv+Ms**
Where
Mf = 20 [*fix component consist of 11 Bridge helpers (merged into a single category of **Assistant/ Bridge**) and 9 Bridge technicians (merged into a single category of **Technician/Bridge***]
Mv=1.25 Mv8
Mv8= Mv7 x (1+U+R+Gm) - *For non-Suburban section* Mv8 = Mv7 x (1+S+R+Gm) -*For Suburban section*
Mv7 = Mv6x 1.3 *variable component with extra maintenance component*
Mv6 =Mv1+Mv2+Mv3+Mv4+Mv5 *(Variable Component of inspection & O&G)*
Mv1= [(T-Tw)x0.8 + Tw x 0.66]x8/251 *(Requirement for annual general inspection)*
Mv2= (Tw (15/251) x 0.33) *(Requirement for Technical inspection of welded girder once in three years)*
Mv3 = [(T-Tw) x (15/251)x 0.2] *(Requirement for Technical inspection of other than welded girders once in five years)*
Mv4 = [TSLWR x0.5+(Ts- TSLWR)x0.33]x(7/251) *(Requirement for O&G of steel girders once in two years in LWR and once in three years in remaining sections.)*
Mv5 = [Tws x (15/251)x 0.2] *(Requirement for inspection of Gantry girders in workshops once in five years)*
Ms = Special Manpower Requirement *(For Turn Table etc. to be approved by CBE)*

(ii) For manpower of Supervisor

Total Supervisor **Stotal = Sf+Sv+Ss**
Where
Sf = 1 *(fix component consist of one per bridge line unit)*
Sv=1.25 Sv8
Sv8= Sv7 x (1+U+R+Gm) - *For non-Suburban section*

Sv8 = Sv7 x (1+S+R+Gm) *-For Suburban section*
Sv7 = Sv6x 1.3 *variable component with extra maintenance component*
Sv6 =Sv1+Sv2+Sv3+Sv4+Sv5 *(Variable Component of inspection & O&G)*
Sv1= [(T-T_w)x0.8 + Tw x 0.66]x1/251 *(Requirement for annual general inspection)*
Sv2= (T_w (1/251) x 0.33) *(Requirement for Technical inspection of welded girder once in three years)*
Sv3 = [(T-T_w) x (1/251)x 0.2] *(Requirement for Technical inspection of other than welded girders once in five years)*
Sv4 = [T_{SLWR} x0.5+(T_s- T_{SLWR})x0.33]x(1/251) *(Requirement for O&G of steel girders once in two years in LWR and once in three years in remaining sections.)*
Sv5 = [T_{ws} x (1/251)x 0.2] *(Requirement for inspection of Gantry girders in workshops once in five years)*
Ss= Special Supervisor Requirement *(For Turn Table etc. to be approved by CBE)*

Where

U= Traffic density factor to be taken as 1% per GMT above 20 GMT with a maximum value of 0.4
R=Rainfall Factor: 0.1 for annual rainfall between 300 to 3000 mm and 0. 2 for rainfall more than 3000 mm.
G_m= Geographical location factor: 0.2 x Tg/T
S: **Suburban Factor to be taken as** 04 for high density suburban section (fixed constant)
T: Total No. of equivalent unit of 18.3 span
Tw: No. of equivalent unit of 18.3 span for welded girders
T_{SLWR}: No. of equivalent unit of 18.3 span, where oiling and greasing is to be done in LWR section
Ts: No. of equivalent unit of 18.3 span, where oiling and greasing is to be done
Tws: No. of workshop sheds having gantry girders
Tg: Equivalent 18.3 girder in Ghat section or on corrosion prone area
Mtotal = Total manpower
Mf = Manpower fixed component
Mv = Manpower variable component
Ms = Manpower Special Requirement
Stotal = Total no of supervisors
S = No. of supervisor
Sf = Supervisor fixed component
Sv = Supervisor variable component
Ss = Supervisor Special component