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

No. 2012/Sig/M/DAC

New Delhi, dated 10.12.2019

PCSTEs
Zonal Railways

Director/IRISET
Secunderabad

ED/Sig/Co-ord/RDSO
Lucknow

Sub: Video conference on 13.12.19 at 15.00Hrs
Agenda: Improving performance of Track – Avoiding requirement of Glued Joint and Drilling of holes in rails for Signalling.

Problem Statement

Glued joints are weak links in track as their life is substantially lower than rails and its failure rates are also much higher. Insertion of glued joints require AT welds, which are also weak joints and need attention/testing and replacement from time to time.


Axle counters are connected to rail, mostly by drilling holes in rails. The location of holes becomes a stress concentration point and initiation of cracks may take place from these locations.

Proposal

To mitigate above, following proposals are under consideration:

Proposals	Remarks over the proposal
1.0 - For all new works, Digital Axle Counters (DAC) to be planned for track proving in place of "DC Track Circuit using glued joint". At present, the work should be planned with track devices capable of fitting with the help holes and bolt arrangement. Further clamp type fixing arrangement will be developed and provided on trial basis. On the basis of trials, RDSO will approve for regular use.	
2.0 - "DC Track Circuit using glued joint" shall be replaced on GQ/GD and HDN routes with digital axle counters for sanctioned renewal works.	

Video Conference shall be held on 13.12.19 (Friday) at 15.00Hrs to deliberate on the above. Please make it convenient to attend.


10/12/19
(Arjun Singh Tomar)
निदेशक (सिगनल)