

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

सं/No. 2023/Track-I/16/2(TWS)

दिनांक/Date: 27.11.2024

**Principal Chief Engineers,  
All Indian Railways.**

**Principal Chief Signal & Telecom Engineers,  
All Indian Railways.**

विषय/Sub: **Maintenance Issues Related to Thick Web Switches (TWS).**  
संदर्भ/Ref: **RDSO's letter No. CT/PTX/TWS/Design dt. 09.03.2023.**

1. Zonal Railways had reported maintenance issues related with TWS turnouts. The main issues raised by Railways were as under:
  - a. Difficulty in gauge holding at ATS
  - b. Point machine sleeper going out of square
  - c. Longitudinal movement of tongue rails w.r.t. stock rails (Creep)
2. To address the above issues, following three step solution for retro-fitment was suggested by RDSO vide letter under reference. It was also clarified by RDSO that Step -2 and Step-3 solutions were to be implemented only if above issues are not addressed after implementation of Step-1 solution in existing points.

**Step-1**

- Replace GFN Liners by Metal Liners
- Use ERC Mark-V
- Provide MS Flat Tie Bar at Sleeper No. 3 and 4

**Step-2**

- Provide cast steel Slide Chair /Bearing Plate from Sleeper No. 4 to 20
- Provide NCRGRSP with Horns

**Step-3**

- Provide cast steel Slide Chair /Bearing Plate from Sleeper No. 21 to 27

3. Most of the Zonal Railways have already implemented Step-1 solutions.
4. However, to keep watch over the issues raised, following have been decided:
  - i. The supervisors of S&T and Engg. Departments shall clearly record in the joint point & crossing register all incidences of failure of point due to creep/gauge variation/sleepers going out of square, and the corresponding action taken to rectify the same from the last date of joint point & crossing inspection.
  - ii. If problem persists, the supervisor shall report the issue to concerned Sr DSTE, who in turn will arrange joint inspection of point by appropriate level S&T and Engg. Divisional Officer to understand and sort out the issue.
  - iii. If problem is still not resolved at Division level, matter would be referred to CSE, who will arrange joint inspection of point by appropriate level HQ officers of S&T and Engg. Department.
  - iv. If problem is still not resolved at HQ level also, matter may be referred to Railway Board/RDSO for further necessary action.

  
(Sandeep Mathur)  
Pr. Executive Director/SM  
Railway Board

  
(Prem Sagar Gupta)  
Pr. Executive Director/CE(P)  
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