

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
RAILWAY BOARD

No. 2017/Sig/Misc.

New Delhi, Dated 18.12.2018

PCSTEs  
All Zonal Railways.

**Sub: Upgradation of Signaling and Interlocking on HDN/HUN Routes.**

**Ref: ED/Planning/Railway Board's letter No. 2018/PL/42/19  
dated 11.12.2018 (Copy enclosed).**

Vide letter referred above, Railways have been requested to identify High Density Network (HDN) / Highly Utilized Network (HUN) routes for upgradation of Signaling and Telecommunication systems. Railways are requested to propose works for the identified routes, but not limited to, as under:

1. Electronic Interlocking system with Centralized operation.
2. Redundant Detection system.
3. Integrated Power Supply system (IPS).
4. Protective path for OFC system.
5. Remote Diagnostic and Predictive Maintenance system.
6. Automatic Signaling system. Automatic Signaling on approaches of major junction station. This should include bi-directional signalling arrangement for at least 3 block sections from junction stations. Compulsory inclusion of Automatic Signaling with tripling/Quadrupling works.
7. Centralized Traffic Control (CTC)/Train Management System (TMS)

This is issued with the approval of DG/S&T.

  
18/12/18

(Pradeep M Sikdar)  
Executive Director/Signal Development

Government of India  
Ministry of Railways  
(Railway Board)

258, Rail Bhavan  
New Delhi-110 001

No.2018/PL/42/19

New Delhi, dated 11<sup>th</sup> December, 2018

The General Manager,  
All Indian Railways

**Sub: Upgradation of Signalling and Interlocking on HDN/HUN Routes.**

Hon'ble MR desires that each Zonal Railway should identify HDN/HUN routes on their railways for upgradation of signaling and interlocking. You are, therefore, requested to kindly initiate the process for identifying such HDN/HUN routes for upgradation of signaling and interlocking and the same should be submitted to Board for further action.

  
(V. Shanker)

Executive Director (Planning)  
Telefax:23383354

✓ Copy to: DG/S&T, Railway Board – for kind information  
Copy to: The Chief Operations Manager, All Indian Railways