

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

No.2023/ABSCOMMITTEE/RailwayBoard

New Delhi, dated 16.11.2023

General Manager
All Indian Railways

Sub: Guidelines for provision of Automatic Signalling and Twin Single line working over Indian Railways.

Ref: (i). Signal Directorate Letter no. 2021/Sig/WP/Action Plan dated 14.06.2022.

(ii).RB order no. ERB-I/2023/23/50 dated 05.09.23


1. Vide above reference letter no (i), guidelines for provision of Automatic Signalling (ABS) on Indian Railways were issued on 14.06.2022.
2. Subsequently, a committee, vide ref (ii), was constituted by Ministry of Railways to review the guidelines for selection of sections for ABS, provision of Twin Single Line working and spacing of common loop.
3. Based on the recommendations of the committee, revised guidelines for provision of ABS are as under:-
 - a. All sections on HDN Routes on IR.
 - b. Sections on HUN routes identified by Zonal Railways based on Traffic density.
 - c. All notified "sub-urban sections".
 - d. ABS shall be provided on sections where 3rd and/or 4th line works are being undertaken. Further, in future works, on routes where corridors of similar speed trains are not possible and there is heavy mixed traffic with high speed differential, 3rd and 4th line may be planned along with ABS. Also, alignment of 3rd and 4th line shall be planned to avoid Permanent Speed Restrictions (PSRs). Possibility of bypassing major junctions depending on traffic patterns may be contemplated while planning 3rd and 4th line.
 - e. ABS may also be planned for any other section identified by Zonal Railways based on traffic requirements.
 - f. While planning ABS works, safety and feasibility should be examined based on site requirements like gradient etc. Accordingly, location for Signals in ABS shall be decided by Zonal Railways. For this joint survey by inspectors of traffic, TRO, Engineering and S&T may be done before finalisation of Roll Diagram/ SIP of auto sections.
 - g. ABS works shall be done with dual detection as per existing policy guidelines to improve availability. RDPMS may also be planned for ABS territory as per RDSO specifications.

- h. At Major Junctions, integrated master plan for traffic from all directions shall be prepared. Upto three block sections on approach of Major Junctions shall be provided with ABS to minimize congestion. Further, based on site requirements, bypass chord/ ROR around Major Junctions may be planned to address congestion. These chord line/ROR and other related works can be part of traffic facilities works in proposed Amrit Junction umbrella.
- i. Balance ABS works identified in Mission 3000 MT shall be sanctioned and all ABS works under Mission 3000 MT may be commissioned by 2026-27 to get maximum benefits of enhanced line capacity.

Further, following guidelines regarding Twin Single line and Common loop may be followed:-

- i) Twin Single line working improves operation flexibility. Zones may plan implementing twin single line while planning doubling works based on traffic pattern and maintenance requirements.
- ii) Common loop shall be planned as per standard layouts issued by Board vide letter No.2015/Sig/WG/Standardise Layout dated 12.07.2017. Normally, common loop shall be planned at every 4th station. However, in case of Gatishakti cargo terminals, good sheds or other terminals, common Loop may be planned as per site requirement.

This issues with approval of Board (MI, MOBD and CRB & CEO).


(Jonal Chaudhary)
JD/Gati Shakti/S&T

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- (5) PCOMs, All Zonal Railways- For kind information and necessary action.
- (6) PCSTEs, All Zonal Railways- For kind information and necessary action.
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