

Recorded Notes of Additional Member/Signal, Railway Board's inspection of Train Management System, Mumbai Division, Central Railway on 16.11.2019

The following were present during the inspection:

PCSTE/ CR :	Shri A K Shrivastav
CSE/ CR :	Shri Vinod Kumar Agarwal
CSTE (Proj)/ CR :	Shri M.S. Uppal
Sr. DSTE (Co)/BB:	Shri Naveen Singh
ADSTE (Tele)/BB:	Shri Sanjeev Kumar

During the inspection, following points were noted:

1. TMS (Train Management System) of M/s. Bombardier Make is provided in CSMT-Kalyan section of BB division and it covers 26 stations. M/s. BARCO Make Rear View Projection Screens (RVPS) is provided which covers the entire CSMT-Kalyan sections in two rows. Total 16 panels have been provided for RVPS-08 Nos. are LED based and balance 8 are lamp based, which are being replaced. The font size and display intensity of the Train Numbers and Signalling functions was satisfactory. The Level crossing gates are displayed by vertical bars (in white colour when closed, in red colour when open). The online real time display both on TMS workstations as well as on Rear View Projection Screens, is quite reliable. The overall aesthetic look of TMS Control Room is quite good.
2. The TMS Work Stations for the Section Controllers for the sections CSMT-Kurla & Kurla-Kalyan are housed in the Main Hall where Rear View Projection Screens have been installed. The two controllers have been provided glass enclosures keeping in view ambient sound levels not to get distracted by conversation from other Section Controller(s).
3. It was noticed that Section Controllers were taking arrival/departure timings from Stations on control phones and manually recording in Tabular Control Charts. The TMS has provision of online Control Charts which automatically indicates time stamping of trains as they arrive/depart at stations. **These Control Charts should be available on one Monitor out of the three monitor TMS Work Station for both the Section Controllers.**
4. **The automatic generation of Control charts, as being done on WR TMS, needs to be implemented on highest priority.** For the trains running beyond TMS territory i.e. Kalyan, there should be provision of indicating arrival/departure timings of stations beyond Kalyan in the TMS Control Chart. Thus, for the trains running on CSMT-KYN section, time stamping shall be automatic and beyond Kalyan, manually till such time the integration of TMS is done with COA (Control Office Application).
5. The TMS application should be integrated with COA as has been done recently for TMS Howrah. Once this integration is achieved, for which CRIS has already circulated the interface protocol, **there shall be no need for any manual entries to be done by Controllers. All MIS reports including Punctuality reports, shall be available through TMS Workstations. This should be taken up on highest priority.**

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6. It was seen that quite a few Train IDs were showing ? i.e. not showing their proper Train Numbers. There is need to ensure proper entry of Train Numbers at various TMS entry points through TMS Workstations. Unless Train IDs are entered, the Passenger Information System i.e. Automatic Announcements and Train Indicator Displays, will not work satisfactorily.
7. Protection path of TMS link from stations is not functional due to non availability of CTR cards for which procurement is under process. This should be procured on priority.
8. Traction Power Controller (TPC) in SCADA room has also been provided with TMS workstation and the same is being found to be very useful. The real time location of the trains available on TMS Workstation, enables planning of OHE Blocks as well as rectifying failures.
9. It was discussed that Annual Maintenance Contract for TMS is being processed on similar lines as available for WR TMS. This needs to be pursued on priority. For satisfactory functioning of the TMS sub-systems including both hardware and software, AMC is essential.
10. The overall performance of TMS is satisfactory and the Section Controllers are finding it very useful in their day to day operations. The integration of TMS with COA and availability of TMS Control Charts on one Monitor shall significantly help the Controllers in efficient management of trains.
11. As an appreciation of the commendable work being done by the Controllers in efficient management of trains and satisfactory maintenance support services being provided by S&T staff, a Group Cash Award of Rs. 20,000/- is sanctioned.


(Rajeev Sharma) 3/12/19

Additional Member (Signal)
Railway Board/New Delhi

Copy to:

- (i) General Manager, Central Railway
- (ii) Member S&T, Railway Board
- (iii) Member Traffic, Railway Board