

Major Achievements of S&T department of Mumbai division in 2019-20

Passenger Amenities:

a) Old LED based trilingual graphical indicators have been replaced with new LED based trilingual graphical indicators as per C.Rly specification No. CR/SPN-TC/61/2016 (Rev.0) at total **24** Nos. of suburban station of Mumbai division. (Nahur ,Kanjurmarg, Asongaon , Khadavali , Vikroli , Bhandup , Mulund ,Ulhasnagar, Chhatrapatti ShivajiMaharaj Terminus, Kalva ,Mumbra , Diwa, Kopar ,Thakurli ,Vasind ,Aatgaon,Khardi, Chinchpokli , Curry Road ,Masjid ,Neral , Karjat , Dadar and Thane station)



b) Total **21** Nos. of new GPS based digital platform clocks have been commissioned at various suburban stations of Mumbai division.



c) New coach guidance indicators board (as per RDSO specification) provided at LTT (130 Nos) and Dadar (113 Nos) station as replacement of old ones.



d) Wi-Fi facility for internet connectivity has been provided at **55** stations :

Guru Teg Bahadur Nagar, Siwari, Dockyard Rd, Sandhurst Road, Tilak nagar, Chunabhatti, Masjid, Ambivali, Kings Circle, Titwala, Kaman Road, Bhandup, Nahur, Kanjurmarg Road, Govandi, Mankurd, Shahad, Cotton Green, Thakurli, Diva, Ulhash nagar, Bhivpuri Road, Vangani, Vasind, Mumbra, Chinchpokli, Ambernath, Bhiwandi, Kopar, Khadavali, Curry Road, Palasdhari, Khandala, Khopoli, Taloja, Khandeshwar, Airoli, Sion, Karjat, Mohope, Juhi Nagar, Mansarovar, Nerul, Vithalwadi, Vidyavihar, Sanpada, Kharbov, Kasara, Khardi, Kasu, Chouk, Baman dongri, Kalva, Kharkopar, Kharghar,



1. Reliability and safety related achievements:

a) Commissioned New RRI at Kaman Road, Kalva and Kalamboli Goods, .



b) Electronic Interlocking (EI) of M/s Ansaldo make Commissioned at Khandala and Monkey Hill and at Titwala of M/s Westrace make.

c) 3 Nos. of LC gate has been interlocked.

2. New initiatives:

- a) Leaky cable commissioned for the first time in Central Railway inside Tunnel no. 49 between Monkey Hill and Khandala station on Down South East Line for seamless and clear communication on Walkie-talkie sets between Guard/driver and Dy.SS of Khandala.



- b) Thermal imaging camera has been used for first time in Mumbai division by S&T (traditionally thermal gun was used which doesn't give accurate information of overheating/loose connections in power equipment). This is helping in taking pre-emptive corrective action in power supply equipment.

3. Improvement measures:

- a) 22 Nos. of Sliding boom has been commissioned at LC-1A, 6, 9, 22, 13, 25, 64, 73, 74, 26, 5, 23, 15, 19, 4, 76, 7, 67, 7, 10, 34 and 1A.
- b) 2 Nos. Siemens Make MSDAC Commissioned for dual detection of Block Proving Axle Counter (BPAC) at TGR-3 to KSRA UP & Middle line.
- c) 459 Nos. of Multi-section Digital Axle Counter have been commissioned for dual detection.
- d) Remote Terminal Unit commissioned at LC Gate-54, 55, 60, 61 and 67 and it's networked to nearest station.
- e) 08 Nos. of Alstom make AFTC have been commissioned at Lonavala B for dual detection.

4. Technical innovations-

- a) Auto resetting circuit has been provided for dual detection arrangement with axle counter which automatically resets the DAC without any manual intervention. This reduces duration of failure and saves manpower.
- b) 40 No.s of 48V DC charger for Telecom installations have been provided with manual BOOST facility for quicker charging as per requirement of user (normally float mode of charging is available in conventional chargers).