



MANIBEN NANAVATI WOMEN'S COLLEGE

Vallabhbai Road, Vile Parle West, Mumbai 400056

Awarded Best College 2018-19

Affiliated to SNDTWU

in collaboration with



PROJECT MUMBAI.org

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Winner of United Nations SDG Solidarity Action Award 2020



 **PROJECT SAFAR**

**A collaborative effort to map the
accessibility of local train lines in Mumbai**

PROJECT SAFAR

Project SAFAR is an accessibility check of local train stations in Mumbai carried out by students of Maniben Nanavati Women's College, under the Youth for Action Mission Intellect (Y.A.M.I.) Project.

The college collaborated with Project Mumbai to carry out this accessibility check.

Accessibility

[ak-ses-uh-bil-uh-tee]



the quality of being suitable or adapted for use by people with disabilities

Essentially, it means checking whether the specially abled can comfortably use Mumbai's local trains.

Process

Under the guidance of an expert and user experience, the students learned to look for the signs that helped them evaluate each station's Accessibility Stars. A score was assigned to each station based on the following seven parameters:



- 1. Entrance**
- 2. Pathway**
- 3. Steps**
- 4. Elevator**
- 5. Ticket counter**
- 6. Platform**
- 7. Signage**

Process

Each of the seven parameters were further broken down into specific points to be evaluated from both the East and the West side of each station. For every parameter, if 50% or more of the targets were met on both East and West sides, the station received one star. In this manner each station surveyed is scored out of seven stars.



The students of M.N.W.C. spent months visiting stations on Western, Central and Harbour lines that are most used. They collected photographs and took videos to help in organizing the data. MNW College provided a travel allowance to all the students for these visits. This is entirely a student initiative for the benefit of all Mumbaikars

Accessibility Stars



THANE

BELAPUR CBD



TILAK NAGAR (H)

SEAWOOD DARAVE (H)

KHARGHAR (H)

KURLA (C)

MULUND (C)

DIVA (C)

DOMBIVLI (C)

KALYAN (C)

NAIGAON (W)

WESTERN LINE

STATIONS	PARAMETERS						
CHURCHGATE	★	★	★	●	●	★	★
MARINE LINES	●	●	★	●	●	★	★
CHARNI ROAD	●	●	●	●	●	★	★
GRANT ROAD	●	★	★	●	●	★	★
MUMBAI CENTRAL	●	●	●	●	●	★	★
MAHALAXMI	●	●	●	●	●	★	●
LOWER PAREL	●	●	●	●	●	★	●
PRABHADEVI	●	●	●	●	●	★	●
DADAR	★	★	★	★	●	●	★
MATUNGA	●	★	★	●	●	●	●
MAHIM JUNCTION	★	★	★	●	●	★	●
BANDRA	●	★	★	●	●	●	★
KHAR ROAD	●	●	●	●	●	★	●
SANTACRUZ	●	●	●	●	●	★	★

WESTERN LINE

STATIONS	PARAMETERS						
VILE PARLE	●	★	●	●	★	★	★
ANDHERI	●	★	●	★	●	★	★
JOGESHWARI	●	●	★	●	●	★	●
RAM MANDIR	●	●	★	●	●	★	●
GOREGAON	●	●	●	●	●	★	★
MALAD	●	●	●	★	●	★	★
KANDIVALI	●	●	●	●	●	★	★
BORIVALI	★	★	★	●	●	★	★
DAHISAR	●	●	●	●	●	●	●
MIRA ROAD	●	●	●	●	●	●	●
BHAYANDER	●	●	●	●	●	★	★
NAIGAON	★	★	★	★	●	★	★
VASAI ROAD	●	●	★	●	●	★	★
NALLA SOPARA	●	★	★	★	●	★	★
VIRAR	●	●	★	●	●	★	★

HARBOUR LINE

STATIONS	PARAMETERS						
DOCKYARD ROAD	●	★	●	●	●	●	●
REAY ROAD	●	★	★	●	●	●	★
COTTON GREEN	★	●	★	●	●	★	●
SEWRI	●	●	★	●	●	●	★
VADALA ROAD	●	★	★	★	●	★	★
KINGS CIRCLE	●	★	★	●	●	★	●
GTB NAGAR	●	●	★	●	●	●	★
CHUNNABHATTI	●	●	★	●	●	●	●
TILAK NAGAR	●	★	★	★	★	★	★
CHEMBUR	●	●	★	★	●	★	★
GOVANDI	●	●	★	●	★	★	●
MANKHURD	●	★	★	★	●	★	★
VASHI	●	★	★	●	★	★	●
SANPADA	●	★	★	●	★	★	★

HARBOUR LINE

STATIONS

PARAMETERS

JUINAGAR	●	★	★	●	★	★	★
NERUL	●	★	★	●	●	★	★
SEAWOOD DARAVE	★	★	★	●	★	★	★
BELAPUR CBD	★	★	★	★	★	★	★
KHARGHAR	★	★	★	●	★	★	★
MANASAROVAR	●	●	●	●	●	●	●
KHANDESHWAR	●	●	●	●	●	●	●
PANVEL	●	●	●	●	★	★	★

CENTRAL LINE

STATIONS	PARAMETERS						
CSMT	●	★	●	●	★	★	★
MASJID BUNDER	●	●	●	●	●	●	●
SANDHURST	●	●	●	●	●	●	●
BYCULLA	●	●	●	●	★	●	★
CHINCHPOKALI	●	●	★	●	●	●	★
CURRY ROAD	★	●	★	●	●	★	★
PAREL	●	●	●	●	●	●	●
DADAR	●	●	●	●	●	●	●
MATUNGA	●	●	●	●	●	●	●
SION	★	★	★	●	●	★	●
KURLA	●	★	★	★	★	★	★
VIDYAVIHAR	●	●	★	●	●	★	●
GHATKOPAR	●	★	★	●	★	★	★
VIKHROLI	●	★	●	●	★	★	●

CENTRAL LINE

STATIONS	PARAMETERS						
KANJURMARG	●	★	★	●	★	★	●
BHANDUP	●	●	★	●	★	★	●
NAHUR	●	★	★	●	★	★	★
MULUND	●	★	★	★	★	★	★
THANE	★	★	★	★	★	★	★
KALVA	★	★	★	●	●	★	★
MUMBRA	★	●	★	●	●	★	★
DIVA	★	★	★	●	★	★	★
KOPAR	★	★	★	●	●	★	★
DOMBIVLI	★	★	★	●	★	★	★
THAKURLI	●	★	★	●	★	★	★
KALYAN	●	★	★	★	★	★	★
VIITHALWADI	●	●	●	●	●	★	★
ULHASNAGAR	●	●	●	●	●	●	●

CENTRAL LINE

STATIONS	PARAMETERS						
AMBERNATH	●	★	★	●	●	★	★
BADLAPUR	★	★	●	●	●	●	★
VANGANI	●	★	●	●	★	★	●
KARJAT	●	●	★	●	●	●	●
NERAL	●	●	●	●	●	●	●
BHIVPURI	●	●	★	●	●	●	●
SHAHAD	★	★	★	●	●	★	★
AMBIVLI	●	●	★	★	●	★	★
TITWALA	●	●	●	●	●	★	★

Stations with less train frequency were not covered

PARAMETERS

Entrance

Kerb ramp seen from road to the footpath

Ramp leading into the station

Ramp installed is of relatively gradient

Ramp is of min width 900 mm

Ramp has handrails on both sides

Ramp has tactile warning strips at start and end of the ramp

Signage indicating accessible entrance helps it be seen

Pathway

Pathway is even and continuous

No change in levels seen

No obstacles seen in the path of travel

Tactile pathway seen

Steps

Steps are of riser 150 mm and tread 300 mm

Handrails seen on both sides

Tactile warning strips seen at start and end of steps

Elevator

Lift door is of width 900 mm

Lift car is of dimension 2000*1100 mm

Audio indicator is present in the lift

Visual indicator is present in the lift

Control panel has both tactile and embossing buttons

Ticket Counters

Counters are of height 750-900 mm

Coin vending machines – coin slots at height of 1200 mm

Screens have audio to guide blind users

Map of stations is in tactile and embossed format

Ticketing app is accessible

Platform

Entry to platform is accessible

Disabled coach has an audio indicator

Gap between platform and coach is less than 12 mm

Push down ramp to facilitate entry into the coach

Visual Indicator is installed

Audio announcements are heard

Tactile warning strips (bubble) are installed at a distance of around 600 mm from the edge of the platform

Time to board is sufficient. Emergency button provided

Entrance to coach is 900 mm wide and has sufficient space for movement of wheelchair users

Signage

Platform numbers are clearly displayed

Visual and audio signages on all platforms and overhead bridges

Clear signages to accessible entrance

Clear signages to accessible washroom

Clear signages to accessible lifts

Clear signages to accessible coach

Working escalators with platform numbers

Student Volunteers of Project Safar under Project Y.A.M.I. (M.N.W.College)

● Manali Manjrekar

● Shruti Singh

● Nidhi Darji

● Amita Chaurasiya

● Dhvani Surti

● Sneha Pawar

● Neha Yadav

● Richi Mishra

● Eshika Ojha

● Krishna Pandya

● Riddhi Joshi

● Husneera Khan

● Riddhi Kori

● Mansi Mauyra

● KalaiVani

● Sabina Qureshi

● Shabnam Mansuri

● Twinkle Gogri

● Siddhi Singh

● Simran Prashanth

● Srishti Mishra

● Jensi Ravaria

● Aarya Betrabet

● Nidhi Solanki

● Swara Trivedi

● Loisha Fernando

Steps Ahead:

As an outcome of this survey, one of the students has identified a solution to facilitate train travel for those in wheelchairs. The idea is being placed before the college innovation and incubation cell (NIEDIC)



Disclaimer:

Data has been collected during the period of March 2024 to December 2024. Facilities may have changed since the survey. Kindly check with the station master for current updates.

While we have used the experiences of users to frame the parameters, the accessibility check needs to be done by qualified auditors based on the principles of HGSS 2021



Do share widely to generate greater awareness and support for our specially abled citizens.

Coordinators of Project Safar

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