



## MD's Corner

Dear Colleagues,

I am delighted to see the unveiling of this first edition of the year 2021 of our monthly newsletter Maha-Metro CONNECT.

You all are aware that due to sudden onslaught of COVID-19 Pandemic, consequent prolonged lockdown and tortuously slow "Mission Begin Again", the year 2020 turned to be one of the most disruptive public health and economic crisis seldom witnessed by generations. These events naturally proved disruptive for us at Maha-Metro too. The project work at Pune and Nagpur was stopped. Likewise, train operations at Nagpur were suspended for months altogether.

But chaotic and disruptive, though the year was, it could not dampen the spirit of Team Maha-Metro whose resilience bested all the difficulties and challenges and the team regrouped and rebooted itself to chug along resolutely with all its might in record time

Looking back, we at Maha-Metro move to the New Year with many positives from the last year. This includes the opening of Nagpur Metro's Aqua Line for commercial services, handling COVID-19 pandemic and the consequently lockdown resolutely at the work and family front, fast-tracking project construction at Pune and Nagpur despite insurmountable challenges with regard to critical resources deficit in terms of lack of labor and key materials, opening six new stations at Nagpur for passenger traffic, getting Metro-Neo accepted as apt mobility solution for tier 2/3 cities in the country, getting priority section in Pune ready for trial run and smart progress achieved in underground work of Pune with two tunnel breakthroughs of 1.6 km each.

Indubitably, the year ended with the victory of "Hope and Resilience" over "Despondency and Despair", and the New Year begun on a highly promising note. Nagpur operations after crossing the Pre-COVID-19 ridership peak are now moving fast forward to cross "Mission One Lakh Ridership" this year while the trial run along 6 km priority section of Pune has been successfully completed. The year 2021 will be that epoch making year for Maha-Metro in which Nagpur Metro Project will be completed and at least half of Pune Metro project will become operational. In addition, many new responsibilities are likely to come our way during the year.

During January, Team Pune Metro will celebrate its 4th Foundation Day. And next month it will be the turn of Nagpur Team to celebrate the 6th Foundation Day. My best wishes to both the teams on the pious occasion.

On this happy note, let me also wish you and your family an extremely healthy, happy and meaningful 2021.

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# MISSION ONE LAKH RIDERSHIP

## Mission One Lakh Ridership of Nagpur Metro in Fast Lane



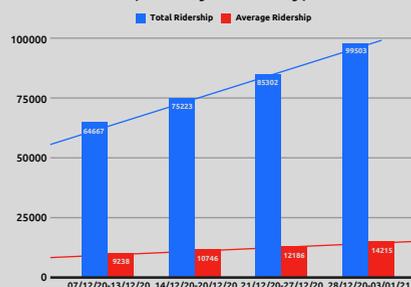
After months of closure of operations due to COVID-19 pandemic as part of the 'Mission Begin Again' initiative, Commercial Service of Nagpur Metro recommenced in graded manner from 16/10/20 with full COVID-19 precaution protocols to ensure safe and secured service to our valued consumers. It all began with modest ridership of 461 on Aqua Line on 16th October and 1555 a couple of days later when the services resumed on all 16 stations of Aqua Line and Orange line.

When Nagpur Metro resumed operations, the ridership of country's all operational metro rail systems was struggling to touch even 20% threshold of pre-COVID-19 level. It was under such trying circumstances that "Team Maha-Metro" began aggressive re-acquisition of ridership by employing innovative measures and involving the whole might of the organization. The key measures included:

- Adding four new stations to attract more ridership
- Co-creating more ridership from Industries, institutions, hospitals etc.
- Encouraging prominent citizens, senior city officials and celebrities to take metro ride

All the above efforts resulted in 384% increase in average weekly ridership over last two and half months for up to 14214 passengers thereby surpassing pre-COVID-19 numbers with the maximum single day ridership increasing to 22123. Team Maha-Metro is committed to take the ridership numbers to One lakh well before the opening of the full stretches before the end of year 2021.

**Weekly Ridership of Maha Metro**  
(Monday to Sunday)



- A novel measure to allow cyclists to travel in metro train with their cycles
- Improving First and Last Mile Connectivity with E-scooters, E-Rickshaw, para-transit at every station, opening seven routes of feeder bus service,
- Providing E-charging point at 6 Metro stations, NMC Electric bus Shuttle service
- Free E-Rickshaw services from Airport Station to the Airport.
- Celebration on Wheels to enhance ridership
- Prachar-Prasar of various schemes, activities through Social media, Radio-FM, etc.
- Carnival, Musical events like Sur Sangam , CRPF & SRRPF band at stations,
- Attractive fare structure

## TWO NEW STATIONS OPERATIONAL

### Shankar Nagar & Rachana Ring Road Junction Stations open for Public at Nagpur

On 9th December 2020, two more stations viz. Shankar Nagar and Rachana Ring Road Junction commenced commercial operations. These two stations are part of the Aqua Line corridor. With this, the total operational stations at Nagpur Metro along the two corridors of Orange and Aqua Lines have increased from 16 to 18.

Earlier Commissioner of Metro Rail Safety (CMRS), Shri Janak Kumar Garg and his team had inspected both the stations from 3rd December to 5th December and provided the authorization for commercial operation on 7th December.

With this the Metro Stations which are now operational on Aqua Line are Lokmanya Nagar, Bansi Nagar, Vasudev Nagar, Rachana Ring Road Junction, Subhash Nagar, LAD College, Shankar Nagar, Institute of Engineers, Jhansi Rani Square and Sitabuldi Interchange. Similarly, the Metro Stations operational on Orange Line are Khapri, New Airport, Airport South, Airport, Jai Prakash Nagar, Ajni Square, Rahate Colony and Sitabuldi Interchange.

#### Distinctive Features of New Stations

**Shankar Nagar Metro Station:** Located on North Ambazari Road, near Shankar Nagar Square, this Metro Station is built on 6996 sq. meter area. This station of Aqua Line is surrounded with Schools, Colleges, Government offices and Banks. Also, various Commercial establishments and Retail shops are located in its vicinity. The residents in the surrounding areas, and those who frequently visit the nearby places are greatly benefited after opening of this metro station.

**Rachana Ring Road Junction Station:** Located on Hingna Road, near Hingna T-point, this Metro Station is built on 3488.07 sq. meter area. Many residential colonies have come up in the vicinity of this station in the recent past. Also, some Industrial units are located at a certain distance from this station.

Entry and exit for these stations is facilitated from both the Northern and Southern sides. Both the stations are built on Aqua theme. Metro train services are now operational at these stations as per the scheduled timings between 8:00 am and 8:00 pm, wherein trains are available at an interval of 15 minutes.



Shankar Nagar Metro Station



Rachana Ring Road Junction

## Pune Metro Chugs Along : Successful Trial Run of 6 km Priority Section



**Trial Run Pimpri-Chinchwad**



**Arial View: Trial Run Pimpri-Chinchwad**

The New Year started with a bang for Pune Metro project. On January 3rd of 2021, the project successfully carried out the trial run of train operations along the 6 km priority section from PCMC station to Phugewadi station of North-South Corridor.

This trial run was significant not only because of the section was tough to execute the tall viaducts, but completion of the section had to face the double whammy brought in by the disruptive COVID-19 in its wake that disrupted the construction for months altogether first on account of the mandatory lockdown and subsequently due to the non-availability of the key construction resources - labour (migrant labour fled to their native places), machinery and materials (due to breakdown in the supply chain), and shortage of spares and consumables. Equally daunting was the lack of availability of OEM engineers to keep the train trial worthy.

As the regular maintenance Depot for the corridor is under construction and yet to be

connected to the viaduct, for the purpose of trial run the train stabling and maintenance facilities had to be developed on the viaduct itself making the commissioning of train and its fitness for trial run even more challenging. All these challenges could be overcome with the consistent hard work of Maha-Metro Rolling Stock Engineers and staff.

The trial run between PCMC and Phugewadi metro station was initially carried out as safety measure, at the low speed of 2-3 kmph but was gradually increased to 10 kmph and then to 20 kmph. It is worth mentioning that the section is already fit for 40 kmph speed as per the approval already received from RDSO. The next trial run of train will be carried out at the speed of 40 kmph. The successful trial run of the train in this section has paved the way for statutory inspection & approval of the priority section from CMRS early so that the commercial operations can be commenced by the end of June, 2021

## Sant Tukaram Station ready to welcome PuneKars

Sant Tukaram station is at the heart of the 6 km long priority section from PCMC to Phugewadi. It is the second station from PCMC side with other priority section stations being Bhosari, Kasarwadi and Phugewadi. With the trial run along this section already successfully conducted on 3rd January, the completion of the stations is being accelerated to ensure the opening of the priority section by 30th June.

Sant Tukaram Nagar station is the first among the priority section to be completed and is all ready to receive PuneKars. Equally important is the fact that PCMC and Phugewadi stations too are also almost complete and will soon join the rank of Sant Tukaram stations. The work on Bhosari and Kasarwadi station too are in advance stage. Named after seventeenth century Bhakti poet Sant Tukaram, the station is located close to intercity bus station and apart from providing comfortable and convenient commuting option to city dwellers will also provide easy and direct access to daily wage earners who come from surrounding small towns like Dehu Gaon, Vadagaon, Talegaon etc. It will also capture commuters travelling from Sant Tukaram Nagar to various industrial centres to its north.

Sant Tukaram station is provided with three entry-exit facilities which are equipped with wide staircases, escalators and lifts to take commuters from ground to concourse level and to next higher platform level.

Once the passengers reach the concourse level, they are welcome by paid and the unpaid areas. At Mumbai side of the unpaid area exist technical rooms for day-to-day operation of Metro like Signaling Equipment Room (SER), Technical Equipment Room (TER) and UPS (S&T), Station Control Room (SCR), Ticket Office Machine room (TOM),



**Sant Tukaram Metro Station**

while at Pune side Auxiliary Sub-Station (ASS), UPS (Electrical) are located. The function of SER/TER is to facilitate all signal operation required for train operation purpose, UPS room is for battery backup and the purpose of TOM is distribution of train tickets/tokens and station train running activities and other announcements will operate/control through SCR.

With Maha-Metro having vision of contributing to society by harnessing green energy to the maximum, solar panels will also be installed over the station. Warkari theme design has been introduced at Sant Tukaram Nagar Station to honor the tradition of devotees of Lord VITTHALA. Also, with the station being part of one of the greenest areas of Pune, the façade is green in colour so as to give a leaf theme to the Sant Tukaram Metro Station.

At the ground level of the station to enhance last mile and first mile connectivity, multi-modal integration facilities including pedestrian footpath, cycle track and bus/auto/car bay to drop off and pick up to the passengers are provided. To increase non-fare revenue share, work for station naming rights and leasing advertising space inside the station are under progress.

## INNOVATION CORNER

### Seamless “Green Multi-Modal Integrated Solution” for Nagpur Citizens

Maha-Metro from the very beginning embarked upon the mission of providing seamless green multi-modal integrated urban transport solution to Nagpur citizens. A case in point is it meeting 65% of its total energy needs through solar means.

A new milestone in this direction has been achieved by signing an MOU with EESL for provisioning of Electric Vehicle (EV) charging infrastructure at zero cost to Maha-Metro at all Nagpur Metro stations. The stations already have ample parking space for stationing of all types of Electric vehicles such as e-buses, e-rickshaws, e-scooters and e-cycles.

Apart from this, Maha-Metro as of now have an MOU in place with 15 agencies for providing First and Last mile connectivity through their Electric vehicle fleet. Out of these 15 agencies, 2 agencies namely ETO Motors and KHS Associates are also installing 2/3 wheeler EV charging Infrastructure to support the operations of their EV fleet. Both of these companies have already setup the charging Infrastructure at select places such as Airport Station, Rahate Colony Station, Jaiprakash Nagar Station, Subhash Nagar Station & Metro Bhawan and they are in process of expanding their EV fleet and charging infrastructure.

Maha-Metro has also entered into unique partnership with NMC for accelerated provisioning of Electric Buses at stations to provide feeder services. These buses will be provided charging facilities at stations on a

chargeable basis.

This innovation of providing E-vehicle charging infrastructure, E-vehicle provisioning and parking was launched from Airport metro station and the same is being expanded to all the operational stations. By the end of 2021, all the 38 Nagpur Metro stations will have the electric charging facilities.

The Mobile Application developed for the use of e-vehicles and touch free payment will provide better accessibility and user friendliness in order to achieve a wide acceptability in near future.

This innovation will change the very way Nagpur Citizens travel in near future. Riders will experience seamless door-to-door “Green Mobility “and the city will have reduced carbon footprint with zero-pollution and first mile to last-mile connectivity. Nagpur Metro stations equipped with this innovation will be harbinger of change and will herald cascading game changer behavioral change in citizens as they increasingly adopt to e-vehicles thereby reducing significant dependence on fossil fuels. Maha-Metro will gain through increased ridership, higher fare-box-revenues as well as much higher non-fare-box revenues

Maha-Metro innovation of providing e-vehicle charging facility on all 38 stations along with e-vehicles, is a nation first initiative not only for a metro rail organization but for a city as a whole.

FEEDER SERVICES



# REMEMBERING 2020

## The Year That Was - Maha Metro @2020

### JANUARY 2020

- o Pune Metro first trial run on part of priority corridor
- o Nagpur Metro bags train wrapping advertisement contracts from Bank of Maharashtra
- o Pune Metro celebrates 3rd Foundation Day
- o Nagpur Metro inaugurated Commercial Operations of Aqua Line

### MARCH 2020

- o Pune Underground - Twin TBMs complete one km of tunneling
- o Energy Efficient Services Limited (EESL) to install Electric Vehicle (EV) charging infrastructure at Nagpur Metro Stations

### AUGUST 2020

- o Overcoming manpower challenges the Maha-Metro way - construction work at Nagpur and Pune gets momentum

### OCTOBER 2020

- o Maha-Metro COVID-19 warriors present their inspirational stories
- o Metro Bhavan and Sitabuldi station get highest Platinum Rating by Indian Green Building Council (IGBC).
- o CMRS Certificate for Rahate Colony, Ajni, Bansi Nagar and LAD Square Metro Stations.
- o Nagpur Metro resumes passengers' services in the Post-COVID-19 phase.

### DECEMBER 2020

- o CMRS sanction for Shankar Nagar and Rachana Junction Metro Stations.
- o Sant Tukaram station at Pune gets ready to welcome Pune-kars.

### FEBRUARY 2020

- o Pune Metro Gets Financial Closure – inks deal with European Investment Bank (EIB)
- o Nagpur Metro celebrates 5th Foundation day
- o Nagpur - Feeder Services start from Khapri Metro Station
- o Pune-kars welcome metro tracks - Historic moment for Trial Run commencement

### APRIL - JULY 2020

- o Nagpur and Pune Metro Rail resolutely manage disruptive impacts of COVID-19 and consequent lockdown
- o Maha-Metro Nagpur awarded ISO 14001: 2015 Certificate.

### SEPTEMBER 2020

- o Maha-Metro's MD awarded 'Construction World Person of the Award Year 2020'.
- o Shri Ajit Pawar Hon'ble Dy. C M Maharashtra inspects and lauds progress of Pune Metro project.
- o Pune Metro TBM achieves first breakthrough of 1.6 km long tunnel.

### NOVEMBER 2020

- o Pune Underground achieves second tunnel breakthrough of 1600 meters.
- o First '**Celebration on Wheels**' held - Birthday celebration on running train at Nagpur Metro.
- o METRO – NEO Standard Specifications approved for country wide adoption.

# WELCOME 2021

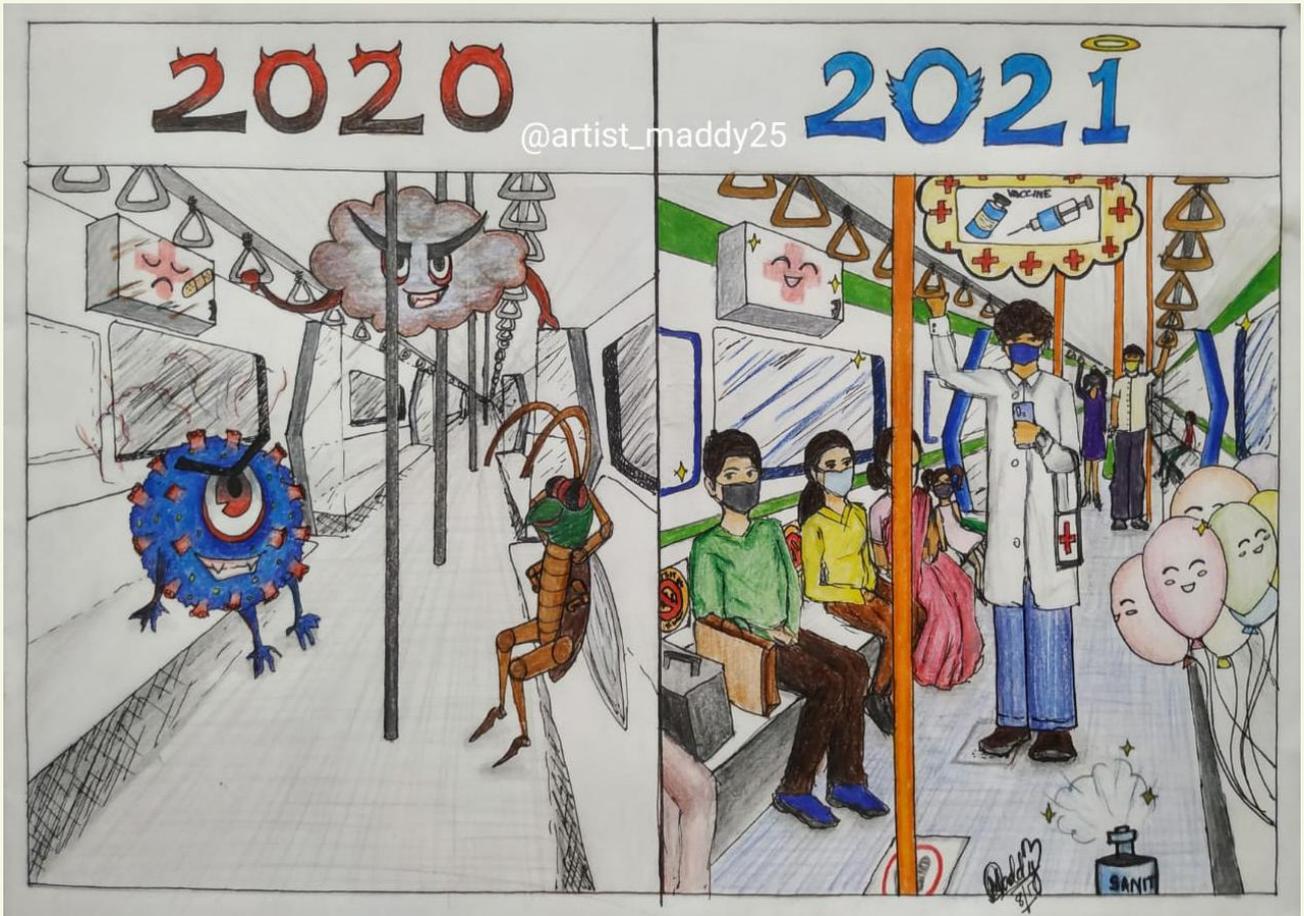


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## Social Media Engagement

### Citizens Love Maha Metro!

Social media engagement of Pune & Nagpur Metro far exceeds its other counterparts in the country. Pure testimony of 'Maazi Metro'



### NAGPUR METRO

Average acquisition of FB followers per month **10,249**

**f** 6,01,992 **ig** 12,400

**yt** 1,309,906 **tw** 13,400



### PUNE METRO

Average acquisition of FB followers per month **8,900**

**f** 5,80,758 **ig** 12,600

**yt** 1,421,246 **tw** 22,053

[www.mahametro.org](http://www.mahametro.org)