

Multimodal integration & NMT

Maha-Metro in coordination with NMC and KFW (funding agency) prepared a Comprehensive Report of the Feeder Services for commuters of Nagpur in (2016-2017). The report contains existing scenarios as well as proposed feeder service for Metro. Apart from proposed Metro feeder, improvements to modes such as city bus services, public bicycle sharing scheme, Non-Motorised Transport (NMT) have also been planned and implementation has already started.

The initiatives taken by Maha Metro are as below:

A. Starting feeder services:

- As many as 24 MoUs have been signed.
- Out of these, 7 have been implemented. (Bounce closed PBS operation during Pandemic)
- Balance is under process of implementation and are expected to be operational once the effect of Pandemic wanes.

i) E-Rickshaw feeder service operated by M/s. Twarit Mobility Pvt Ltd: -

- M/s. Twarit Mobility Pvt Ltd operating from following 5 Metro Stations from January 11, 2021.
- Till now, 1491 rides completed.
 - i. Sitabuldi Interchange
 - ii. Rahate Colony
 - iii. Jaiprakash Nagar
 - iv. New Airport Metro Station
 - v. Khapri Metro Station



ii) **E-Rickshaw feeder service operated by M/s. ETO Motors Pvt Ltd: -**

- M/s. ETO Motors Pvt Ltd installed 4 Charging stations at Subhash Nagar Station
- Brought 12 E-Rickshaws.
- 7 E-Rickshaws operating at nearby area of Metro Stations on Orange line
- 5 E-Rickshaws are operating at nearby area of Metro Stations on Aqua line.
- Till now, 774 rides completed



(Colour of E-Rickshaw modified as per requirement of RTO)

iii) **E- scooter feeder service operated by M/s. KHS Associates in brand name Switch E-ride: -**

- KHS commenced E-scooter feeder service from 8th November 2020 (App based system)
- Total registered in App= 1076 nos. (Aadhar Card, photos, Electric bill, Driving License. Deposit =Rs.50/-)
- Till now, 566 rides completed.
- Total 24 electric vehicles are available at following locations with/without Charging Station

Sr.No.	Metro Stations/Locations with availability of fleet of KHS Associates	Metro Stations/Locations where Charging Stations installed by KHS Associates
1	Airport	Airport
2	Rahate Colony	Rahate Colony
3	Jaiprakash Nagar	Jaiprakash Nagar
4	Ajni Square	Ajni Square
5	Khapri	Metro Bhawan
6	Sitabuldi Interchange	
7	Lokmanya Nagar	
8	Lata Mangeshkar College	
9	NEERI campus	
10	CRPF	



iv) **Bicycle service operated by Vidarbha Infotech Pvt Ltd.:-**



Sr.No.	Metro Station/Location	No. Bicycles available	No. of Bicycles issued on monthly subscription
1.	Khapri Metro station	10	
2.	Sitabuldi Metro station	7	
3.	Airport Metro Station	5	
4.	AIIMS	10	
	Total	32	22



v) **Bharat Ride Mobile Application for operation of Auto feeder service: -**

- Bharat Ride Mobile Application operational from November 10, 2020 for existing Auto-Rickshaws services running in the city as per the MoU signed on 20th of October,

2020.

- 2 Auto Associations accepted to enroll Auto as a feeder service to Metro.
- Total customer apps downloaded by citizens till April 21, 2021 = 6366
- Total enrolment of Auto operators = 731
- Total rides = 859 (797 offline & 62 online).
- Additional feature launched from February 2021: Reimbursement of Metro Rail Ticket fares is given by various 'Retailers & Shop-keepers' associated with MMI Mobility Pvt. Ltd. against the purchase of Rs.300/- (min) & Gift the Maha Metro Smart Card on purchase of minimum of Rs.1500/-.
- The Metro ticket scanned by commuters from 2 Feb. 2021 till 21 April 2021 = 6321, costing Rs. 92,236/-



vi) **Metro-Airport E-Bus Shuttle service: -**

- Commenced from 18th of February 2021.
- Fare = Rs.10/-
- Sufficient space provided for luggage in the bus.
- Service temporarily closed from 16th of April 2021 due to COVID-19 Pandemic situation.

- Total users of this service till operation = 1452



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f Feeder bus service of NMC as per the request of Maha Metro: -

- As per the request of Maha Metro, NMC bus stops at every operational Metro Station.
- Following are the details of operational NMC feeder routes

Sr. No.	Route		Date of commencement	Status			
	From Metro Station	To		Up to date trips	Up to date passengers	Per day trips	Average no. of passengers per day
1.	Lokmanya Nagar	Hingna Govt. Hospital	18 th Nov.2020	5792	26765	23	107
2.	Khapri	Butibori MIDC	18 th Nov.2020	4907	18682	19	75
3.	Khapri	AIIMS Hospital	23 rd Nov.2020	6412	5636	20	21
4.	Jaiprakash Nagar	Jaitala	23 rd Nov.2020	4866	7108	26	29
5.	Jaiprakash Nagar	Mhalgi Nagar	23 rd Nov.2020	4122	5163	18	21
6.	Jaiprakash Nagar	to Beltarodi to Airport South Metro station	23 rd Nov.2020	5016	15915	28	65



B. “Green” journey planning app for Nagpur city for feeder services as well as fare integration:

- Maha Metro has submitted proposal of “Green” journey planning app for Nagpur to GIZ for TUMI Global Urban Mobility Challenge 2019. Maha Metro is winner for this Challenge. The Grant Agreement has been executed with GIZ, Tender is also published on Maha Metro website and the process is going on to get the mobilisation advance from GIZ for Green Journey Planning App
- Green Journey Planning App have following features:
 - Provide First Mile and Last Mile Connectivity via Metro to the passengers/commuters using Single App.
 - Connect Various Modes of Public Transport into Single system
 - Show options of available modes with cheapest cost of travel.
 - Provide Booking Facility for First Mile and Last Mile Connectivity covering various Public Transport system Via Metro.
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emission saved/Generated during the Trip

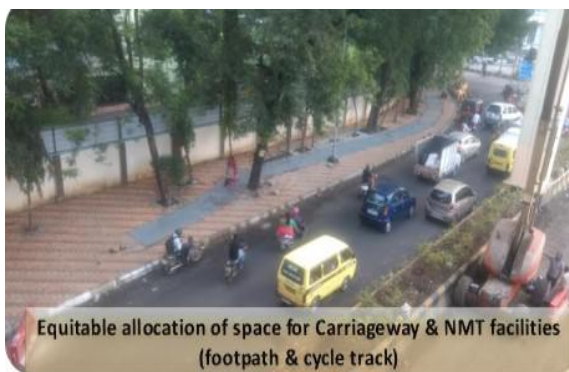
C. Planning and implementation of more EV-Charging Stations:

- Maha Metro has signed an agreement with M/s Energy Efficient Services Ltd. (EESL) on 31.12.2020 for installation and operation of EV charging systems at all Metro Stations of Nagpur Metro Rail Project.



D. NMT Master plan: -

- Maha Metro prepared 739 kms of NMT Master plan jointly with NMC for PAN city.
- In order to showcase the Non-Motorized Transport (NMT) facilities to the stakeholders as well as to the citizens of Nagpur, Maha Metro has implemented 100 m demonstration area near Institute of Engineers Metro Station as shown below:



Equitable allocation of space for Carriageway & NMT facilities (footpath & cycle track)



Equitable allocation of space for Carriageway & NMT facilities (footpath, MUZ & cycle track)