

*Connecting Chennai City Better*

**Moving People  
Sustaining Growth**



*Reach Landmarks of Chennai through*

**CHENNAI METRO RAIL LIMITED**





## ABOUT CHENNAI METRO RAIL LIMITED



Chennai is the fourth largest city in India. The population of Chennai Metropolitan area is about 8 million. The vehicular population is around 26 lakhs. At present, Chennai is served by a transport system, which comprises a suburban railway network, the MRTS and the Metro Transport Corporation (MTC). The system is not adequate to meet the growing transport needs of the public. The National Urban Transport Policy 2006 announced by the Government of India recommends a high capacity Mass Transit System for Cities like Chennai.

The Government of Tamil Nadu created a Special Purpose Vehicle (SPV) for implementing the Chennai Metro Rail Project. This SPV named as "Chennai Metro Rail Limited" was incorporated on 03.12.2007 under the Companies Act.

The 45 Kms of the Phase-I of Chennai Metro Rail project has thus been successfully implemented with 32 stations. The corridor 1(23.0K.m) comprises of Washermenpet to Airport with Underground section covering 14.3 Km and elevated covering 8.7 Km. The Corridor 2 (22 Km) is from Central to St. Thomas Mount with Underground section covering 9.7 Km and Elevated section covering 12.3 Km.

### CORRIDOR-I (23.0 Km)

#### Washermanpet to Airport

##### Underground Stations

Washermenpet Metro, Mannadi, High Court, Central Metro, Govt. Estate, LIC, Thousand Lights, AG-DMS, Teynampet, Nandanam and Saidapet Metro.

##### Elevated Stations

Little Mount, Guindy Metro, Alandur, Naganallur Road, Meenambakkam Metro and Airport Metro

Central Metro and Alandur Stations are at two levels where passengers can interchange from one corridor to another.

### CORRIDOR-II (22 Km)

#### Central to St. Thomas Mount

##### Underground Stations

Central Metro, Egmore Metro, Nehru Park, Kilpauk, Pachaiyappa's College, Shenoy Nagar, Anna Nagar East, Anna Nagar Tower and Thirumangalam

##### Elevated Stations

Koyambedu, CMBT, Arumbakkam, Vadapalani, Ashok Nagar, Ekkatuthangal, Alandur and St. Thomas Mount Metro

### COMMERCIAL OPERATIONS

**Koyambedu to Alandur  
(10.15 Km) - 29.06.2015**

**Little Mount to Airport  
(8.6 Km) - 21.09.2016**

**Alandur to St. Thomas Mount  
(1.2 Km) -14.10.2016**

**Koyambedu to Nehru Park  
(7.63 Km) -14.05.2017**

**Nehru Park to Central Metro (2.5 km)  
and Little Mount to AG-DMS (4.35 km)  
25.05.2018**

### EXTENSION OF PHASE - I to THIRUVOTTIYUR

The Extension of Phase-I of the Chennai Metro Rail Project from Washermanpet to Thiruvottiyur/Wimco Nagar, covering a distance of 9.051 k.m at a cost of Rs. 3770 crores has been approved by the Government of Tamil Nadu and Government of India.

The Phase1 Extension consists of Two underground stations namely Sir Theagaraya College and Korukkupet and Six elevated stations namely Tondiarpet, Toll Gate, Thangal, Gowri Ashram, Thiruvottiyur and Wimco Nagar.

The Ground Breaking Ceremony of Phase 1 extension from Washermanpet to Thiruvottiyur/Wimco Nagar on 23.07.2016.

### ADVANTAGES OF METRO RAIL SYSTEM

Metro Rail System is recognized as a modern, reliable, safe and environment - friendly mode of Mass Rapid Transport.

#### The advantages are:-

- Lowest carbon emission amongst various modes of mass transport.
- Causes no air pollution in the city.Provides for very high passenger capacity.
- Uses clean technology and is energy efficient.
- Requires 1/5<sup>th</sup> energy per passenger per km compared to the road based system.
- Causes lesser noise level. Ensures enhanced mobility and reduces congestion on roads.
- Reduction in road accidents, thus protecting human life and yielding financial savings. 50 to 75% reduction in journey time when compared to road journey depending on road conditions.
- Linkage with other forms of transport. (Links will be provided with Chennai Airport, Central Station, Egmore Station, Mofussil Bus Terminus and MRTS).
- Utilization of solar energy



## FACILITIES FOR THE DIFFERENTLY-ABLED PASSENGERS

1. Extra wide gates
2. Two wheel chair-parking facilities in every coach
3. Tactile paths
4. Exclusive friendly Toilets
5. Ramps at stations
6. Hand rails
7. Braille letters in lifts & AFC gates, Voice Guidance in Ticket Vending Machines (TVM)

## FACILITIES FOR WOMEN PASSENGERS

1. First class section & Women only coach
2. CCTV cameras
3. Exclusive Women only toilets
4. Customer care facility.
5. Zero tolerance for drunkards and trouble makers
6. Security staffs in all metro stations.
7. Contract security staff routinely check for male commuters travelling in Women only coach.

## LAST MILE CONNECTIVITY SCHEMES

### CONNECTING THE IT CORRIDORS IN CHENNAI :

CMRL has introduced last mile connectivity for the benefit of Metro Passengers between Alandur Metro Station to DLF cyber city IT Park. At present there are four air conditioned tempo travelers plying between Alandur to DLF at an interval of 15 Minutes with a flat rate of Rs. 20/-.

### FEEDERS SERVICES FOR INFOSYS:

Infosys Buses have also been introduced from Alandur Metro Station to Mahendra City and Sholingnallur campus. A total of 6 trips are made in the morning, with 3 trips made each campus every day.

### CAB FEEDER SERVICES:

Cab feeder services are available at 5 Metro Stations at a flat rate of Rs.15/-

### SHARE AUTO SERVICES:

Share Auto services are available at 8 Metro Stations at a flat rate of Rs.10/- for a distance of in and around 3 Kms.

### BICYCLE SCHEMES:

Bi-Cycle Schemes have been introduced at all metro stations for the benefit of the passengers to promote a healthier and sustainable mode of transport. These have generated an overwhelming response.

### MINI BUS SERVICES BY MTC:

Mini Bus by MTC services are also available as last mile connectivity, at Koyambedu, Ashok Nagar, CMBT, Alandur, Guindy, Nehru Park, and Central Metro Stations.

### BIKE RENTAL:

Bikes are available for hire at 4 Metro Stations for the convenience of passengers for the last mile connectivity.

**SOLAR ENERGY** CMRL has already commissioned a total of 2.1 MW at different locations viz depot roof top and Ground level, Elevated Metro Stations Roofs, Under Ground metro stations, ancillary buildings etc. Additional 5.5 MW is under execution.

Plans are afoot to put in metro stations rooftop in the elevated stations and in stations in the Phase 1 extension

**E-CHARGING** Charging points for electric vehicles are being installed at 4 Metro Stations, the same would later be extended to cover more Metro Stations.

**SWATCH BHARATH MISSION** As part of SWATCH BHARATH MISSION, CMRL has introduced Waste Segregation, Bio-Composting and Plastic Reduction in the office premises, metro stations etc.

**DIGITAL INDIA SCHEME** As part of DIGITAL INDIA SCHEME, CMRL has introduced Cashless Payment and Incentives as an encouragement.

## FACILITIES AND SERVICES IN METRO STATIONS AND TRAINS

The Metro Stations and trains are elderly friendly and physically challenged friendly with escalators and lifts, Air Conditioned underground stations, Automatic announcement system, Electronic information display boards, Kiosks (Food & ATM), Toilet facilities, CCTV systems & Video surveillance systems, Firefighting systems, Feeder bus services, Parking lot facilities, Emergency buttons & intercoms to alert the driver, State of the art light weight coaches, Electrically operated bi-parting automatic sliding doors, Electronic route map, Public Address system, Drinking water facility and mobile recharge portals, Travelator connecting Airport Metro Station and Chennai Airport is available for the benefit of the passengers.

### TECHNICAL SPECIFICATIONS

**GAUGE:** Standard Gauge (1435 mm). **Speed:**

**Designed Speed:** 90 kmph

**Permissible Speed:** 80kmph

**Average Speed:** 34 kmph

**TRACTION SYSTEM:** 25 KV overhead traction

**SIGNALING SYSTEM** consists Automatic Train Protection (ATP), Automatic Train Operation (ATO) and Automatic Train Control (ATC) will ensure a high degree of safety of passengers. Train operations are controlled centrally from Operations Control Centre (OCC).

**REGENERATIVE BRAKING SYSTEM** is an energy recovery mechanism where the regenerated electricity is utilized for all auxiliary equipment in the train and for other trains running in the same network.

**EVENT RECORDER (EVR)** in each train to the train control and management system (TCMS) network.

**PLATFORM SCREEN DOORS (PSD)** is installed at all underground stations.

**CARRYING CAPACITY** for 4-car unit will be 1276 persons including seating and standing.





For additional details, please contact us at:



## CHENNAI METRO RAIL LIMITED

(Joint Venture of Govt. of India and Govt. of Tamil Nadu)

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