

4.2 SPECIAL AND COMPLEX ROUTES OF THE METRO 173 pdf

1: High Frequency network - Metro Transit

where r_{ij} is the length of the scaled path selected by PIL.. 3. Metro system robustness analysis Station centrality evaluation. A fundamental problem in network science is to evaluate the relative importance of the role a node plays in a network, and this helps understand the structural characteristic of the network.

The rakes will be microprocessor controlled with 3 phase AC motors. The rakes will be supplied to Kolkata by mid These rakes will be of ultra-modern technology. They will have wide vestibules, 2. The design consists of aerodynamic front with large doors and LED lights, and a violet colored stripe on silver color body. The 1st of the 14 rakes from Chinese firm Dalian is slated to arrive by December The rest of the 13 rakes will take around six months more. These rakes are capable of a top speed of 80 kmph and an average speed of 65 kmph 10 kmph higher than the existing ones. These will have 3 phase alternating current motors, regenerative braking , stainless steel body, CCTV cameras and better passenger information system. Recently, 10 more rakes were ordered. All the underground stations have island platforms except Park Street which has side platforms. While all the elevated stations have side platforms, Noapara has island platforms and since it will be the hub station for Line 1 and Line 4 it has 4 platforms having a length of m. The standard length of platforms in Kolkata Metro is m. The shortest distance is 0. Signalling and frequency[edit] Kolkata metro trains operate on typical Indian Railways automatic signalling technology. A Route Relay Interlocking System has been provided at Mahanayak Uttam Kumar and Noapara carshed and are in operation to facilitate the prompt withdrawal and injection of rakes as well as performing shunting operations inside the car shed, required for maintenance purposes. This system is designed to prevent collision caused by human operator error. Metro runs on Sundays between the hours of A number of trains run everyday during week days, on Saturdays and 92 on Sundays. Services[edit] The Kolkata Metro provides seats in every compartment which are reserved for women and senior citizens. Though most Metro stations are equipped with air conditioners and water coolers there are some stations like Central is not fully air conditioned and also a few metro rakes are air conditioned. The old magnetic strip reader gates were replaced by new RFID readers. These smart cards are multi-programmable and commuters can opt for the various multi-ride schemes. The general smart card is most popular among daily commuters to avoid the queue. Security[edit] All stations are equipped with closed-circuit cameras and metal detectors , making the metro the safest form of transport in Kolkata.

4.2 SPECIAL AND COMPLEX ROUTES OF THE METRO 173 pdf

2: Clark International Airport - Wikipedia

Neighborhood routes with frequent stops - the workhorse of public transit, count on these routes to get you just about anywhere you need to go. With 14 High-Frequency routes, Cap Metro provides reliable connections throughout Austin.

Ahluwalia Contracts India Ltd. Azad Nagar station under construction in Andheri in March A metro train arriving at the D. Nagar station during the trial run in May The work order for the project was issued on 21 January , [16] and work began on 8 February Nagar " Azad Nagar stretch, would start by February , with a view to opening the stretch to commuters by March or April The following months have all, at some point of time, been announced as the deadline for completion of the project - July and September , July , March and November , [18] [19] September Phase 1: Versova to Airport Road and December Phase 2: Airport Road to Ghatkopar , [16] [20] and 31 March The lack of maps of underground utilities made the task more difficult. Srinivas, who was on board the train. Trial runs had been conducted for the past month, the most notable being the trial run on 1 May , that was officially flagged off by the Chief Minister. Several tests were conducted before the metro opened to the public. MMOPL officials stated that they had not yet received any new logo design, and were still awaiting the same. On 6 February , RInfra announced that construction was complete, and that some of the regulatory approvals were in place. The RDSO had to divert its resources to inspecting the suburban railway platforms, because passengers were falling into the gap between the platform and the trains. Baghel began physically inspecting the line on 18 April, and completed it on 28 April. According to railway officials, this was because the rakes and wheels used in the metro were "of a new kind, with newer dimensions". Sadananda Gowda gave the final approval on 5 June. BEST bus feeder routes were created along the metro corridor. Bus stops have electronic indicators displaying the expected arrival time of the next train, and information about bus schedules is available inside the metro stations. Parking for bikes and motorbikes is available at all stations. In total, 2 people were killed and 21 injured during the construction of the line. The first accident occurred in May when 1 person was killed and another injured, when a pile rig collapsed at a construction site in Andheri West. In , 4 people were injured, when a steel reinforcement cage and temporary scaffolding of a concrete pillar caved in it Andheri East. In April , a crane at a construction site in Ghatkopar, veered off a truck and crashed on a portion of the nearby Sarvodaya Hospital. No one was injured as the affected portion of the hospital building was empty at the time. The support weakened due to rain and utilities underneath created voids. So, it was basically due to loosening of the soil due to construction activity and its erosion due to heavy rain that the support weakened. If because of any reason a part of the support settles, stress increases on the staging and causes it to fail leading to a cascading effect". The train was further delayed by nearly half an hour, as it had to halt beyond the planned dwell time at certain stations due to a technical glitch. The second day, which saw the line operated for its entire Line 1 had transported 1 million passengers by 4: The line carried an average of , commuters on weekdays. It crossed the million mark on 11 February, or within days, the fastest time in which any metro in India has reached the milestone. The increase in fares is necessitated due to an increase in operating costs, owing to a steep increase in all economic indices; inflation, interest rate, foreign exchange, etc. These factors have also increased the estimated project cost. The rise in capital expenditure will not impact fares immediately.

3: Next stop: MARTA aims to bring transit-oriented development east of Decatur

The Tokyo Metro HanzÅ•mon Line (æ±ä°-ãfjãf~ãf-ã•Šè"mé-€ç.š, TÅ•kyÅ•metoro-hanzÅ•mon-sen) is a subway line in Tokyo, Japan, owned and operated by Tokyo Metro.

4: TransitLink eGuide - Bus Enquiry

If the transit agency can clear a zoning hurdle, affordable housing could be en route to Kensington Station Atlanta's trend toward transit-oriented development shows few signs of grinding to a halt.

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5: Line 1 (Mumbai Metro) - Wikipedia

Springdale/Johnston Terrace (Routes 2 & and 4 & 17), Springdale/Rogge (Routes 2 &) and St. David's North (Route) customers are now able to connect to more with the MetroLink pilot.

6: Tokyo Metro HanzÅ•mon Line - Wikipedia

During periods when CEMS is unavailable for more than 48 hours, ensure maintenance personnel are completing a AFMC Form or filling out a CEMS Event.

7: Metrobus | Fall Route 1

Maps & Timetables Schedules effective June 24, Route and service adjustments have been made to improve efficiency and effectiveness throughout the Metro system through better use of resources.

8: News | Dallas News

By combining the route data of Star Alliance, Oneworld, and Sky Team, we built a network of 1, airports and 5, routes in countries and analyzed the air transport network. Figure 4 shows the visualization network map of the airport in Istanbul, which has the highest degree centrality among the 1, airports.

9: Kolkata Metro - Wikipedia

High Frequency Routes. Parts of routes 2, 5, 6, 10, 11, 18, 19, 21, 64, 54, , and all of the A Line, the METRO Blue Line and the METRO Green Line.

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