



KOCHI METRO RAIL LIMITED

EDAPPALLY JUNCTION IMPROVEMENT AND PEDESTRIAN SAFETY PROJECT



EDAPPALLY JUNCTION – An Overview



- Confluence NH 544 (Salem to Edappally) with NH 66 (Panavel to Kanyakumari)
- Most busiest junction in Kerala (avg. footfall of 1.3 lakhs/day)
- Home to Lulu Shopping Mall (Largest in India), St. George Church, AIMS and Metro station
- Peak hour PCU 11000
- Entry to the city
- Highest per day ridership in metro (average of 24,000)

OBJECTIVE



- Extending Metro culture to the city, roads, buses, autos, public places etc.
- Seamless, safe and green pedestrian friendly footpath, place making and thereby encouraging NMT.
- Places below Flyover is always darkest place in a city, we want to convert it into people friendly circulation area.
- Fully illuminated to have a day feel even during the night to ensure safety of pedestrians
- Synchronising signals for pedestrians vehicle crossing
- Safety of women, senior citizens, children, differently abled persons etc.
- Reduce dust pollution, carbon footprint
- Save the valuable time – Reduced accidents, fuel consumption and increased speed.
- Reduce conflict between different road users.

JUNCTION BEFORE WORK EXECUTION



JUNCTION DURING METRO WORK EXECUTION



BEFORE EXECUTION

Undisciplined traffic



Uneven footpath



Lack of footpath



Parking on footpath



Unauthorized parking



Lack of defined bus bays



No pedestrian crossing



Improper drainage system



Encroachment by hawkers & vendors



CHALLENGES



- Encroachment evictions



- Identification & shifting Utilities



- Relocation of Auto-Rickshaw counter,
Parking & unauthorised bike parking



- Vehicle access for individual
shop/properties

INITIATIVES AND ACCOMPLISHMENTS



- Initial proposal - Foot over bridge
- At-grade model proposed by CODATU
- Convincing various Stakeholders by conducting meetings & presentations
- An efficient pedestrian loop connecting all destinations
- An efficient Multimodal integration (bus, metro, auto-rickshaw)
- Place making under the flyover
- Pedestrian crossings distance reduced thereby improving Pedestrian safety
- Pedestrian plaza – which indeed becomes a designed pause point
- A designed road intersection to control vehicle movement
- NMT Corridor of 2740 metres created.

THE TRANSFORMATION



THE TRANSFORMATION





Footpath width not less than standard width



Easing for pedestrian crossing from traffic Islands



Even footpath for the entire stretch



Bollards for blocking vehicle movement/parking on footpath



Dedicated prepaid auto stand



Handrails for pedestrian safety



Greening with Trees and plants





Shaded pedestrian crossing



Landscaped Islands



Irrigation system



Adequate signage



Hustle free footpaths



Dedicated Bus-bay



Signalling system and safe pedestrian crossings



Cycle docking



Inter locking tiles for easy replacement and maintenance instead of cement paste tiles



Ample footpath lighting



Zebra crossing



Tactile

INTERCONNECTION WITH LULU MALL



MAINTENANCE MANAGEMENT PLAN

Road Maintenance – PWD & NH

Traffic Signals (Inc. Pelican signalling system) – Traffic Police through Sponsorship

Drainage – LSGD (Cochin Corporation & Kalamassery Municipality)

Trees – ‘One tree for One shop Initiative’ – Sponsorship of individual shop owners

Below Flyover – Pay & Park Agency, KMRL Advertising agency

Metro Station Premises – By KMRL

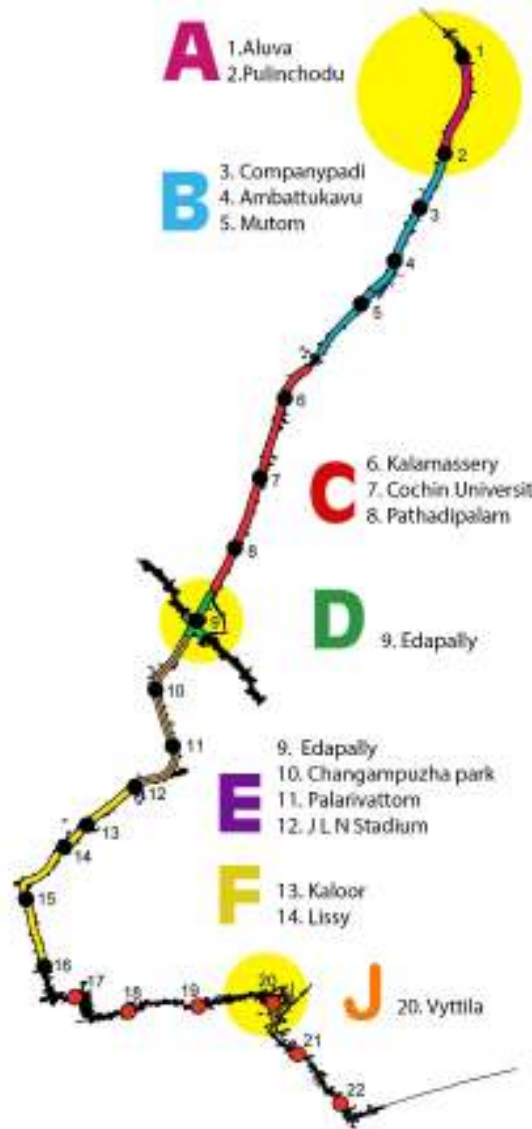
KMRL will act as a coordinator for all the above works

STATUS OF NMT WORKS UNDERTAKEN BY KMRL

LIST OF STATIONS

1. Aluva
2. Pullinchodu
3. Companypady
4. Ambatukavu
5. Muttom
6. Kalamassery
7. Cochin University
8. Pathadipalam
9. Edapally
10. Changampuzha park
11. Palarivattom
12. J L N Stadium
13. Kaloor
14. Lissie
15. M G Road
16. Maharaja's college
17. Ernakulam South
18. Kadavanthra
19. Elamkulam
20. Vyttila
21. Thaikoodam
22. Petta

- G** Companypadi to Maharaja's college excluding Edapally
- H** Aluva to Maharaja's college
- I** Aluva to Maharaja's college



- A** Aluva Junction Improvement Work
- B** Station oriented development works (Package : 1)
- C** Station oriented development works (Package : 2)
- D** Edapally Junction Improvement Work
- E** Improvement of Edapally – High court road
- F** Footpath and drain development works
- G** Landscaping of median below 13 stations
- H** Station underside elastomeric painting
- I** Supply and fabrication of canopy structures and bus stops for all stations
- J** Vyttila Junction Improvement Work



THE TRANSFORMATION





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CONCLUSION

‘Successful implementation of an efficient, safe & sustainable Pedestrian friendly at-grade circulation system with urban place making in a busiest junction, on an experimental basis, nurturing Metro culture.