

Online Technical Talk

TRAFFIC IMPACT ASSESSMENT (TIA) STUDY For Developments Located Adjacent To Public Transit (LRT/MRT) Stations & TIA STUDY FOR NEW RAIL STATIONS

Synopsis

Traffic Impact Assessment (TIA) Study is undertaken to address the traffic impact caused by new developments on the existing road network and junctions in the Study Area. A major aspect of the TIA Study involves the determination of the trip generation of the proposed development and the forecasting of the future traffic demand based on the trip generation of the proposed development and the traffic growth of the existing traffic demand on the road network in the study area.

The introduction of a new LRT system in a city will result in traffic shift from private vehicle-based movement to public transport based commuting trips. This will result in a change in modal split favouring public transport in the person trips movement for the overall road network. This shift in modal split needs to be represented in the future traffic analysis. Different traffic analysis needs to be undertaken for different scenarios associated with the LRT System. One scenario involves the traffic study associated with developments located adjacent to stations of a new LRT/MRT System where the rail system is not yet operational. Another scenario involves traffic study for developments located adjacent to stations of existing operational LRT/MRT System. The two scenarios involve different traffic analysis which need to account for different traffic conditions. Another traffic analysis that can be associated with a new rail system or a new train station is the TIA study for the new train station.

This talk will encompass the different traffic analysis of the TIA study for developments adjacent to existing rail stations and TIA study of developments located in the vicinity of new rail stations. It will also cover the scope of study and analysis involved in a TIA study for a new rail station.

About the speaker

Ir. Ravi Shankar is a qualified Civil Engineer from Universiti Malaya majoring in Traffic Engineering with a Master's Degree in Transportation Planning from Universiti Teknologi Malaysia. Ir. Ravi Shankar is registered with the Board of Engineers as a Professional Engineer with Practicing Certificate in the field of Traffic Engineering.

Currently he is the Managing Director of Perunding Trafik Dinamik Sdn. Bhd. and has about 30 years of professional experience been actively involved in various Traffic Impact Assessment Studies, Public Transport Studies, Highway Privatisation Projects, Transport Masterplan Studies and other Transport and Traffic Management Studies.

Throughout his 31 years of experience, he has been involved in a extensive number of Traffic Impact Assessment Studies throughout Malaysia. He is also a regular speaker in lectures on Traffic Impact Assessment conducted by ACEM for young engineers. He was also a member of the working committee for the development of the Arahan Teknik Guidelines (ATJ38/2018) for Traffic Impact Assessment undertaken by JKR to outline the scope and guidelines in conducting Traffic Impact Assessments. He was also a working committee member for the development of the Guideline On The Geometric Design of Urban Highways by Lembaga Lebuhraya Malaysia. In Penang, Ir. Ravi Shankar has served as one of the TIA checkers in the Year 2022.



21 Oct 2026 (Wed)



6.30pm – 8.30pm

BEM CPD Hours: 2

Ref: IEM26/PG/340/T(w)

**IEM Member : RM15
Non-IEM Member: RM50**

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Speaker

Ir. Ravi Shankar

Managing Director
Perunding Trafik Dinamik
Sdn Bhd



Moderator

Ir. Yeap Geok Ngoh