

TO CHECK ON THE FACTOR OF SAFETY AND THE 'ABILITY' OF THE BOX GIRDER OF LRT BRIDGES

Prepared by: Tan Wooi Tee

ABSTRACT

The Klang Valley, commonly known as the Malaysia most growing region, with the economical expansion rate every day massive jams to reach the office tower of the business city centre. To harmonize the large and green cosmopolitan city, the ministry of transport is planning to build, before 1998, more than 50 KM of LRTs.

There are several LRT projects that have been built and some of them are still under construction, for instance the KL LRT (star), Putra LRT (2), which links KL to Subang Jaya, KL (People mover rapid transit), KTM KOMUTER and ERL (Express Rail Link).

The Bandar Sunway – PUCHONG JAYA LIGHT RAIL TRANSIT is designed to be linked to KTM KOMUTER so it is accessed directly to KUALA LUMPUR CITY CENTRE as it is helping to reduce the traffic problem incurred by the city now. It is considered a substitution of bus services in the town in present and future.

The length of the viaduct LRT Bridge is going to be built from BANDAR SUNWAY to BANDAR PUCHONG JAYA which comes with a length of 6 kilometers. The elevated bridge span is going to be assembled by prefabricated segments and it is constructed by a specific equipment imported from France that is called The FREYSSINET 60T / 60M Launching Gantry used to erect the elevated section.