

Client

Gamuda-Irama Duta Sdn Bhd JV

Consulting Engineers

(Civil, Structural, Geotechnical Engineering)

Arup Jururunding Sdn Bhd

(Mechanical and Electrical Engineering)

Arup Jururunding M&E Sdn Bhd

Project Cost

RM 130 million

Completion Date

1998

Lebuhraya Damansara–Puchong (Jalan Kepong to Damansara Utama)



Lebuhraya Damansara-Puchong is a 40 km highway passing through both urban and rural areas of the city. It replaced an existing older road, providing traffic relief to the residential and commercial development adjacent to the highway.

Arup's scope consisted of an 8 km six-lane dual carriageway with four grade separated interchanges. Arup was also responsible for the design of all the four toll plazas and the service areas along the entire length of the highway.

An interesting feature of one of the interchanges was the construction of an underpass between the abutments and foundations of an existing bridge flyover. Due to space limitations, hand-dugged caissons were adopted as retaining walls for the section of the underpass directly below the existing flyover.

With the proposed highway largely following the corridor of an existing road, local access was an important factor to be catered for in the design. This was achieved by the introduction of a combination of service roads and a limited number of high standard local accesses. Consideration was also given in the design to minimising the environmental impact on adjacent properties, particularly in residential areas.