

CALENDER EVENT 2 – Women Engineers Forum

FIELD VISIT TO CENTRAL EXPRESSWAY SECTION- II FROM MIRIGAMA TO KURUNEGALA

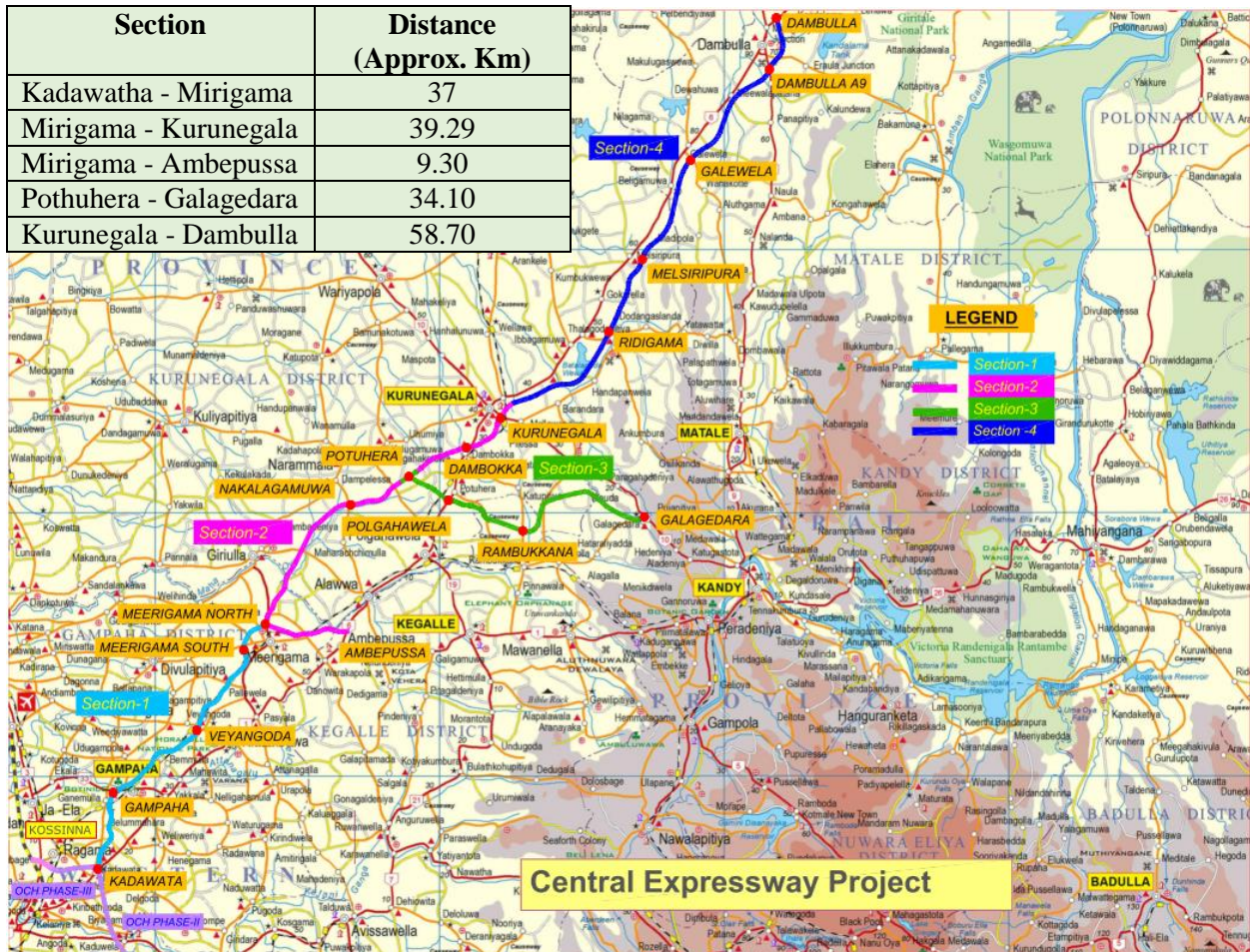
The Women Engineers’ Forum (WEF) of IESL successfully completed the 2nd Calendar event for the session 2019/2020 with a “**Field visit to Central Expressway Section II**” held on 27th July 2019 with the participation of more than expected number of Engineers. The purpose of the visit was to provide an opportunity to the members to get to know the main construction activities of the Central Expressway.

The Project background was presented by the Team Leader / Engineer’s Representative with the Consultants’ team. The Deputy Project Director of the RDA and the members of the project team participated in the Question and Answer session.

This project is divided into 4 contract packages, each of approximately 10 km in length and the Contracts were awarded to four Consortia JV comprising fifteen Local Contractors.

The details of contract packages are as follows

Section	Distance (Approx. Km)
Kadawatha - Mirigama	37
Mirigama - Kurunegala	39.29
Mirigama - Ambepussa	9.30
Pothuhera - Galagedara	34.10
Kurunegala - Dambulla	58.70



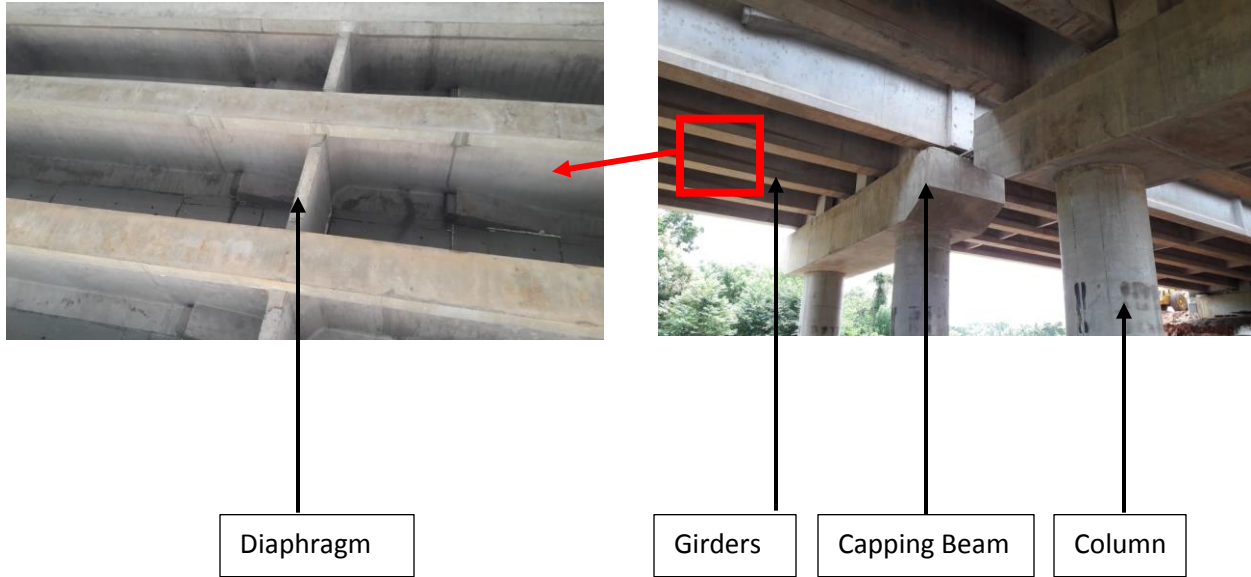
Description	Package A	Package B	Package C	Package D
Length	9.71km	10.20km	10.88km	8.50km
Revised completion	13/10/2019	12/10/2019	01/11/2019	10/01/2019
Contractor	ICC-ACCESS-(NAWALOKA-KDESH JV) CONSORTIUM	Sierra-Olympus-Tudawe –CEC JV	KDAW-NEM-E&C Consortium	MAGA, CML-MTD, VVK-HOVEL JV Consortium
Consultant	MGC ECL RDC JV in Association with CEA, CECB, OCYANA, Green Tech			

The participants visited the Contract Package B and could see major Road and Structural Construction Works in progress. The participants could witness heavy construction works under the supervision of Local Consultants team to a high standard of quality

This Project includes 4 interchanges located at Mirigama, Nakalagamuwa, Dambokka and Kurunegala. All the structural designs are carried out using BS5400 PART II and PART IV and the materials are used as per the project technical specifications. Package B includes 10.42 km of Road, 12 Nos Bridges, 28 Nos Underpass, 8 Nos Overpass, 118 Nos Culverts and 36 Nos Viaducts.

Culverts are designed to a minimum size of 3mx3m and to cater the flow from upstream catchment area to downstream. Underpasses are designed separately for the pedestrian and vehicles and 3mx3m underpasses are provided for the purpose of crossing the expressway without disturbing the biodiversity of the area.

Total width of the expressway is 25.40m, as shown in the typical cross section and 0.75m width soft shoulder with verge provides lateral support to the pavement. The hard shoulder of width 2.5m is provided for emergency parking. The Expressway is divided by a center median of 2.0 m width and each side comprises two lane carriageways of 3.6m width. T7 traffic class has been adopted for the pavement design, considering future traffic increase 125mm asphalt concrete, 225mm dense graded aggregate and 250mm sub base layers are used to withstand traffic loading accordingly. Type 1 and type 2 materials are used to construct embankment. Suitable Soft Ground Treatment (SGT) technique has been adopted at locations where weak ground condition is encountered. . A berm of 2m width is provided to protect the slope where fill height exceeds 6m above existing ground level. Different types of vertical drain and toe drains are constructed for surface drainage. Subgrade level has been maintained at 1.0 m above high flood level, for the design of the vertical profile to withstand during floods



This project is aimed to achieve socio-economic growth, through the rapid transport system by means of extending the expressway network of the country. It will help to reduce the Travel Time and Vehicle Operating Costs. Further, it will improve accessibility between capital Colombo and North Central, North Western and Central Provinces. The long distance traffic on A1 can use the new expressway which would facilitate short distance travelers to use A001 without congestion.

The project is expected to be finished by mid 2020 and the motorists will be looking forward to travel on this new expressway shortly!

Women Engineers Forum extends the gratitude to the Project Director Eng. V. Mohan and the team for giving the opportunity to the engineering community to get firsthand experience and giving permission to publish this article in SLEN.

Written by Women Engineers Forum of IESL