

Upgrading of Constance Bridge along B117 Road at St Remi Road

1. Project Aim

The existing bridge is located along B117 Road. It is approximately 14m long and 6m wide and is made up of steel plate resting on arch steel girders supported by masonry abutments at the two extremities.

The absence of footpath along the bridge represented a potential hazard for pedestrians. Moreover, the existing bridge is showing signs of structural deterioration. Hence, there was need for demolition of the existing bridge and reconstruction of a reinforced concrete bridge as per International Standard. The new RC bridge is 28m long (2 span of 14m each) and 12m wide (including 2m footpath on each side of the bridge), supported central by RC piers and at both extremities by RC abutment. The new bridge will also have improved hydraulic capacity.

Detailed description of the project

The scope of works includes the following:

- Demolition of the existing structure and reconstruction of a reinforced concrete bridge 28 m long and 12 m wide, on a design and build basis by the Contractor.
- Widening and resurfacing of existing road over an approximate length of 200 m.
- Construction of roadside drains, footpaths and retaining structures such as masonry walls.
- Modification, protection, and relocation of existing services such as telecom (MT), electricity supply (CEB), water supply (CWA), etc...
- Provision of miscellaneous road equipment such as road marking, cat's eyes, traffic signs, handrails, safety fences, etc...
- Provision of road lighting
- Landscaping works

2. Construction Period

Project Started on 23 May 2022.

Expected Completion on 18 January 2022.

Overall Progress as at 12 August 2022: 24%

3. Cost Estimate

The project cost is **Rs. 57,144,214.15** (VAT inclusive).

4. Photographs

Before Starting of Works:



Fig 1: Narrow Bridge and absence of Footpath



Fig 2: Existing Bridge view



Fig 3: Sign of deterioration of steel structure of existing bridge deck

During construction:



Fig 4: Preparation for Demolition of Existing Bridge



Fig 5: After demolition of Existing Bridge