



Client:

North-Est Hungary Motorway Investment and Operating Ltd,
Hungarian Bridge Construction Consortium,
M3 Motorway Project Bureau

Technical data:

Total length of the bridge: 405 m (together with the floodplain, bridges)
River bridge spans: 72 m + 112 m + 72 m
Width of the bridge: 1,285 + 10,5 m + 0,565 + 0,87 + 0,565 + 10,5 m + 1,285 = 25,57 m.

Consultancy services provided:

Design for Approval
Tender design
Execution designs
Technical supervision
As-built designs, Instructions for the operator

Bridge structure: two parallel girder bridges with wedged steel supports acting with the rc plate.

Innovative characteristics of the bridge:

- The innovative structure of the rc deck slab and the method of its dimensioning allowed to omit completely the interim temporary supports and to minimize the relocation/moving of the supports, time- and work consuming activities.
- The construction of the deck slab started with the concreting of the sections above the piers.
- Almost all connections are welded
- First application of large thickness ($v_{\max}=100$ mm) boom plates
- The steel structures of the bridges (2x1050 t) were mounted on the riverside and floated as 1 completed piece to their place in longitudinal and transversal direction, by means of floating and lifting engines.



Longitudinal floating



River bridges view from the bottom, after removal of the form panels