

BRIDGE MONITORING ON DNIEPER RIVER, KIEV - UKRAINE

Employer: Ministry of transportation industry of Ukraine

Contractor: PLANETA-MOST, construction and mounting company, Kiev, Ukraine.

Construction period: April 2005 – December 2009



Model – View from left bank of Dnieper River

Bridge with double track railway line and six traffic lanes (three lanes in one direction) across Dnieper River in Kiev will connect two parts of the City. There are five main bridges across Dnieper River in Kiev nowadays. The new one will relief them from increasing traffic. New bridge will also allow Ukraine to meet one of requirements of UEFA for holding 2012 European Championship.

Total length of the bridge is 1.100 meters.

In the course of construction in the middle of river has built a whole island to easing footings building. After ending of bridge construction protective barrier of island will be removed and strong current will wash away this island.

There is interesting feature of new bridge – it will be “invisible” from other bridges because its contour will match with next existing bridge. This is needed to preserve familiar view of city.

Load cells are used for monitoring load on to the bridge footings during the construction to prevent unbalanced load which can cause disastrous effects. Load cells will be used during bridge maintenance for exclusion of excessive overloads.



Estimated traffic load is more than 300.000 vehicles per day.