



*Ministry of
Transport and
Infrastructure*



European Union

Improving the navigation conditions on the Danube between
Calarasi and Braila and on the Romanian Bulgarian common sector

**IMPROVEMENT OF NAVIGATION CONDITIONS ON THE DANUBE
BETWEEN CALARASI AND BRAILA,
AND ON THE ROMANIAN - BULGARIAN COMMON SECTOR OF
THE DANUBE
AND MONITORING OF ENVIRONMENTAL IMPACT OF THE
WORKS FOR IMPROVEMENT OF THE NAVIGATION
CONDITIONS ON THE DANUBE BETWEEN CALARASI AND
BRAILA, KM 375 – KM 175”**

Vienna, 05 - 06th of April 2011



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Improving the navigation conditions on the Danube between
Calarasi and Braila

Improvement of navigation conditions on the Danube between Calarasi and Braila, km 375 - km175



The Works Contract

- The Contract was signed by the RO Ministry of Transport and Infrastructure as Contracting Authority on 28.04.2009 with the Consortium formed by INTERCONSTRUCT Ltd., CANAL SERVICE Ltd., SUPERQUATRO GRUP Ltd. and G&G Ltd., the River Administration of the Lower Danube being the final Beneficiary of this project.
- **Funding:**, 50% EU – ex.ISPA funds and 50% from the Romanian State Budget.
- **Contract Price: 38.671.752,12 Euro**
- **Commencement Date:** 26.05.2009;
- **Completion Period:** 32 months
- **Objective:** Improvement of the navigation conditions on the Danube between Calarasi and Braila , by ensuring the minimum depths of 2.5 m of the fairway recommended by the Danube Commission during the entire year, including the dry season.
- Romania as a Member State of the Danube Commission must comply with its recommendations in order to increase the safety of navigation and eliminate the risk of accidents.



Critical points were during dry season the minimum depths are reduced down to 1.40 m:

- Bala area and Caragheorghe sand, km 347 - km 343;
- Epurașu Island Area (Swan), km 342.7 - km 341.8;
- upstream and downstream Seica (Mirleanu), km 329 - km 325 (A. Seica upstream and B. Seica downstream);
- Ceacâru and Fermecatu Islands, km 324 - km 322 (A.Section Ceacâru Island and B.Ostrovul Fermecatu);
- Fasolele Island, km 291;
- Atarnati area, km 266.85 - km 268.4;
- Varsaturi Area, km 233 - km 232.5;
- Caleia Branch (Ostrovul Lupu), km 197 - km 195 ;



The Works will be executed only in 3 critical points during Phase I

- Bala area and Caragheorghe sand
- Epurașu Island Area
- Caleia Branch (Ostrovul Lupu)



Present status

- Due to intervention of the NGO's for environmental protection and EC-DG Environment, DG Regional Policy has recommended the implementation of a complex programme for monitoring the impact of the works on biotic and abiotic factors in all the critical points.
- Consequently, RO MoT has organised a tendering procedure for preparation of the Monitoring Programme and beginning with 25th of January 2010 the works are formally suspended.
- Due to the contribution and recommendations received from the EC –DG Environment, ICPDR and IAD experts, the Monitoring Programme was substantially improved and a draft was submitted to the EC–DG Regio and also to the Regional Agency for Environmental Protection – Galati on 21st June 2010.



EC letter received on 23rd of July 2010

- EC recommended to complete the Monitoring Programme according to the revised text attached and also in line with the recommendations expressed by the EC experts which includes proposals for setting the needed baseline with credible estimates on the sturgeon population and current migration routes as well as developing an evaluation strategy.
- EC required also that the national authorities confirm their approval of this revised version of the Monitoring Programme.
- The first activities to be carried out after monitoring the first migration season are levelling of the river bed and placing of faggot mattresses as well as beginning of guiding wall construction.
- For the project to go ahead in a sustainable way it is necessary that mitigation measures such as fish pass to be urgently studied and carried out.
- EC recommended also to transfer the financing of this project from ex ISPA funds to Operational Programme –Transport (SOPT).

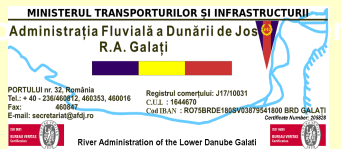


Present status

- Based on the EC letter received on 23 of July, 2010, the Monitoring Programme has been again revised taking into account the recommendation of EC experts and in line with the revised text attached to this letter and has been again submitted to the Regional Agency for Environmental Protection Galati.
- On 22nd September 2010 the RO Ministry of Transport has stated in their reply to the EC that they fully agreed with the EC recommendations.
- The Regional Agency for Environmental Protection Galati has analysed the Monitoring Programme in connection with the provisions of the Environmental Agreement no. 3/2007 and notified us on 25 October 2010 that all its requirements are observed.

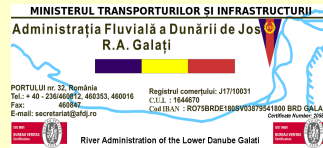


MINISTERUL TRANSPORTURILOR ȘI INFRASTRUCTURII
ADMINISTRAȚIA FLUVIALĂ A DUNĂRII DE JOS
R.A. GALAȚI



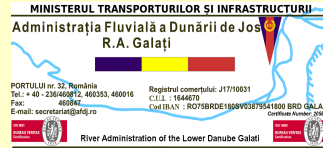
Monitoring Contract

- **PROJECT TITLE:** „Monitoring of Environmental Impact of the Works for Improvement of the Navigation Conditions on the Danube between Calarasi and Braila, Km 375 – km 175”
- **ACRONYM:** ROMOMED (AFDJ site: www.afdj.ro)
- **FUNDING:** EU Co-funding (European Regional Development Fund) – 71,12% and National funding 28.88 % within the Operational Programme Transport (SOPT).
- **Present Status:**
 - AFDJ has drafted the Tender documents for awarding this contract for monitoring services and all the requirements of the Monitoring Programme have been included in the Technical Specification.
 - We have closed the first tender on 15.12.2010 but due to unconformities of the submitted tenders this first tendering procedure was cancelled.



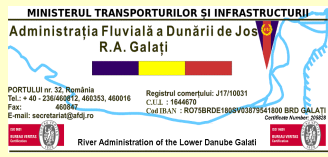
Monitoring Contract

- We have launched again the tender on 18th January 2011 (OJEU Notice ref. 2011/S11-016943/18.01.2011) and the closing date was on 28th of February 2011.
- Eventually, last week, on 30th of March, we have signed the contract with a consortium formed by:
 - **NATIONAL INSTITUTE OF RESEARCH AND DEVELOPMENT FOR ENVIRONMENTAL PROTECTION – ROMANIA- as leader**
 - **AQUAPROIECT - ROMANIA**
 - **UNIVERSITAT FUR BODENKULTUR - VIENNA, AUSTRIA**
 - **VITUKI ENVIRONMENTAL AND WATER MANAGEMENT RESEARCH INSTITUTE –BUDAPEST, HUNGARY**
 - **GROUP OF DIAGNOSIS AND MEASUREMENTS - ROMANIA**



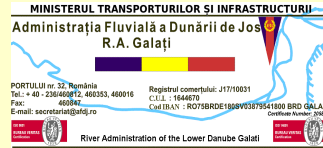
Monitoring Contract

- **Contract Price: 7.197.680 Euro**
- **Contract Duration: 72 months**, in 3 phases:
- Phase 1: Pre-monitoring - before starting the works in order to set down the baseline data on biotical factors and non-biotical in all critical points;
- Phase 2: During the entire period of execution of the hydro-technical works, in order to observe the influence of the works on the non-biotical and biotical factors in all critical points;
- Phase 3: Post-monitoring of these factors after completion of the works in all critical points for 36 months.
- **3D Modelling – will be carried out during the entire 3 phases and will cover the sector from Km 380 (Silistra) downstream to Km 165 (Brăila);**



Monitoring Contract

- 3D Modelling will simulate the water levels and turbidity, sediment transport in that sector as well as the parameters of aquatic environment and also the flow distribution between the main branches and the water exchange between the main and secondary branches of the river.
- 3D Modelling will present also the morphological analysis of the river banks and the meandering tendency in that sector.
- The key team is formed by prestigious experts, as Professor Radu Suciu—ichthyologist from the Danube Delta Institute, one of the promoters of Best Combat Project and Professor Dr. Helmut Habersack from the Institute for Water Management, Hydrology and Hydraulic Engineering, Vienna.

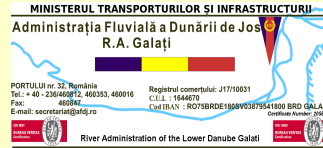


Monitoring Contract

• ACTIVITIES

The Project will include the following activities:

- Air quality monitoring;
- Noise monitoring;
- Soil monitoring;
- Hydro-morphological monitoring;
- Water quality monitoring;
- Ichthyologic fauna monitoring;
- Aquatic fauna and flora monitoring;
- Terrestrial fauna and flora monitoring;
- Avian fauna monitoring;
- Site activities monitoring;
- Monitoring observance of the Pollution Prevention Plan



Monitoring Contract

- **ACTIVITIES**

- The monitoring results will be compared with the 3D hydrodynamic model which allows simulation of complex flow situations in connection with the effects of bottom sill. By combining the outcomes of modelling with those of monitoring more realistic assessment of the impact will be obtained and further forecasted modifications and necessary mitigation measures will be achieved.
- Fish migration and navigation conditions will be analysed by combining the monitoring outcomes of river flow velocity, water depth, sturgeon migration and 3D modelling.



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Technical Assistance for the Improvement of Navigation Conditions on the
Romanian-Bulgarian common sector of the Danube and accompanying studies

**Improvement of navigation conditions on the
Romanian - Bulgarian common sector of the
Lower Danube
and accompanying studies**



Present Status

- April 2007 – contract concluded between Ro MoT and Consortium consisting of TECHNUM N.V. Belgium, TRAPEEC S.A. Romania, TRACTEBEL DEVELOPMENT ENGINEERING S.A. Belgium, COMPAGNIE NATIONALE DU RHONE France and SAFEGE France
- since 2007 – the Consultant has presented several drafts of the Feasibility Study;
- March 2011 a draft of FS for Tulcea sector and EIA Report were submitted;
- Presently the final version of the Feasibility Study based on several scenarios is in progress to be completed and a meeting will take place at the Ro MoT in order to choose the optimum solution to be applied.



Present Status

- After the completion of FS and based on the adopted solution, Ro MoT will proceed with the EIA procedure;
- AFDJ shall implement the designing and works contract and the monitoring contract.



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Thank you for your attention!

Catalina Dumbrava

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