

Forum

of Stakeholders of the Project

„Preparation of Documentation for River Training Works
on the Critical Sectors of the Danube River in Serbia“

Date:	14-09-2012
Duration:	10:00 - 15:00
Venue:	Directorate for Inland Waterways, Francuska 9, 11000 Belgrade, Republic of Serbia
Host:	Directorate for Inland Waterways (Plovput)
Chaired by:	Ivan Mitrovic, Directorate for Inland Waterways

Meeting Minutes

from the fourth meeting of the Stakeholders' Forum

MMs prepared by:	Milica Curcic, Jasna Muskatirovic, Ivan Mitrovic (Plovput)
Photos:	Goran Arsic (Plovput)
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Agenda

Time	Subject
09:45	Registration
10:00	Welcome speech, agenda, organizational issues
10:10	Meeting Minutes of the third meeting of the Forum
10:15	Annex I to the General rules for the organization and work of the Forum - members
10:20	Transparency of the process
10:30	Analysis of the evaluation of the work of the Forum
10:40	Protected species and areas – Presentation of PZZP
11:00	Presentation of alternative solutions for the critical sector Futog
11:40	Critical sector Preliv – conclusions and recommendations of the Forum
12:00	<i>Pause</i>
13:00	Critical sector Beska – conclusions and recommendations of the Forum
13:20	Critical sector Cortanovci – conclusions and recommendations of the Forum
13:40	Critical sector Arankina ada – conclusions and recommendations of the Forum
14:00	Critical sector Susek – conclusions and recommendations of the Forum
14:20	Basic data on critical sectors from Bezdán to Backa Palanka
14:45	Conclusions, next meetings timetable, closing words
15:00	End



List of Participants

Ime i prezime/ Name and family name	Organizacija/ Organization	Skr. / Abbr.	Zemlja/ Country
Dragana Milovanović	Direkcija za vode (Nacionalni ICPDR koordinator) / Directorate of Water (National ICPDR Coordinator)	DzV	RS
Georg Rast	Svetski fond za zaštitu prirode / World Wide Fund for Nature	WWF	DE
Mr Gordana Karović	Aqua et Archaeologia	AetA	RS
Mr Ivan Mitrović	Direkcija za vodne puteve / Directorate for Inland Waterways	plovput	RS
Dr Jasna Muškatirović	Direkcija za vodne puteve / Directorate for Inland Waterways	plovput	RS
Ljubiša Mihajlović	Direkcija za vodne puteve / Directorate for Inland Waterways	plovput	RS
Michel Zuijderwijk	Witteveen Bos	WB	NL
Mićun Stanić	Ministarstvo energetike, razvoja i životne sredine, / Ministry of Energy, Development and environment	MERŽS	RS
Milena Lazić	Energoprojekt	EP	RS
Milica Ćurčić	Direkcija za vodne puteve / Directorate for Inland Waterways	plovput	RS
Nenad Nikolić	Lokalna agenda 21 za Kostolac / Local Agenda 21 for Kostolac	LA21	RS
Otto Nagy	Delegacija Evropske unije u Republici Srbiji / Delegation of the European Union to the Republic of Serbia	DEU	EU
Slobodan Krstović	Nacionalna alijansa za lokalni ekonomski razvoj / National Alliance for Local Economic Development	NALED	RS
Søren Tjerry	Danski hidraulički institut / Danish Hydraulic Institute	DHI	DK
Tanja Lukić	Ministarstvo saobraćaja / Ministry of Transport	MS	RS
Vladan Malešev	Inter-institucionalna profesionalna mreža u sektoru voda Srbije / Inter-institutional Professional Network in the Serbian Water Sector	IPM	RS
Vladimir Pajvančić	Javno vodoprivredno preduzeće Vode Vojvodine / Public Water Management	VV	RS



	Company Vode Vojvodine		
Zoran Novakovic	Privredna komora Srbije / Serbian Chambers of Commerce	PKS	RS
Žaneta Ostojic Barjaktarević	Direkcija za vodne puteve / Directorate for Inland Waterways	plovput	RS

Mrs. Ostojic Barjaktarevic, the Director of the Directorate for Inland Waterways, officially opened the meeting, welcomed participants of the of the third meeting of the Stakeholders' Forum for the project "Preparation of documentation for river training works on critical sectors of the Danube River in Serbia", expressed her gratitude for the support provided by the Forum members and observers in the previous period, and gave the floor to the chairman of the Forum, Mr. Mitrovic (Directorate for Inland Waterways). Mr. Mitrovic welcomed participants of the meeting and presented the agenda for the fourth meeting of the Forum.

Mr. Mitrovic presented the **MMs from the third meeting of the Forum**. He said that, in accordance to the General rules on organization and work of the Forum, all comments from the participants of the meeting delivered until 01st of September 2012 have been incorporated into the text, and that this document is available to the public since 03rd of September, through the web site of the Directorate for Inland Waterways, at the section Stakeholders' Forum.

Mr. Mitrovic informed participants about **activities which are being performed** in realization of the Article 8 of the General rules on organization and work of the Forum (**Transparency of the work of the Forum**). He informed participants that until the fourth meeting of the Forum almost 2.500 (654 hits in the first twelve days of September) hits to the Forum section of the web site have been recorded. He also informed Forum members that it was agreed with ICPDR representatives that Plovput will prepare the article for the ICPDR's magazine "Danube Watch", and, aside from that, Plovput proposed to prepare article on the Forum activities for the next edition of the official magazine of the ISRBC (Sava NewsFlash), and article on Forum activities has been published at the Plovput Newsletter No. 59 in August 2012. He also informed Forum members about the meeting that Plovput had with representatives of ICPDR on 06th of September 2012 in Vienna, in the ICPDR offices, and about the meeting that Plovput had with representatives of via donau, which was held on the same day, during which experiences on the work of two forums have been exchanged. Also, Mr. Mitrovic reported that representatives of Plovput will participate at the next Joint Statement meeting which will be held on 17-18th of September 2012 in Budapest, and that two presentations will be given on this occasion (about the project and about the Stakeholders' Forum).

Mr. Mitrovic informed participants of the meeting that results of evaluation of the work of the Forum from the Forum members with recommendations for improvement of the future work (evaluation performed during the third meeting of the Forum held on 17th of August 2012) are available to the public at the web site of Plovput, at the Forum section.

Mr. Mitrovic informed participants of the meeting that representatives of PZZP have not been able to participate at the meeting, and that presentation on protected areas and



endangered species will be presented by the representative of the PZZP at the next meeting of the Forum.

Mr. Zuijderwijk (Witteveen Bos) presented alternative solutions for the critical sector **Futog**. He briefly elaborated the history of this critical sector, explaining that this critical sector was extremely dynamic in the past, due to the unstable river bed at the downstream part, that there is a groin field on this sector which is in the good condition, and that dredging activities on this sector have been recorded. After that, he presented two options which have been modelled in MIKE 11 program. During the presentation, Mr. Zuijderwijk (Witteveen Bos) stated that the purpose of proposed solutions is to increase the velocity of the river in the fairway, and to preserve dynamics of the river in its sidearms. After the presentation on alternative solutions, Mr. Rast (WWF) asked is it necessary to propose implementation of sills in both options, and have some options without sills been modelled. Mr Zuijderwijk (Witteveen Bos) answered that options without sills have not been modelled, claiming that sills are very good option for this sector, having in mind large width of the river at this sector. Mr. Mitrovic (Plovput) asked on which depth proposed sills should be implemented, in relation to ENR? Mr. Zuijderwijk (Witteveen Bos) answered that sills are proposed to be built to the depth of 3m below the ENR. Mr. Rast (WWF) asked if it is possible to predict the effects of this option on wildlife found of the Danube River, having in mind proposal for implementation of structures which will generate new bars and islands at the downstream part of this sector. Mr. Zuijderwijk (Witteveen Bos) answered that after detailed morphological modelling it will be possible to predict effects in a more detailed manner. Mr. Stanic (MERŽS) raised a question about the existing bar located between rkm 1266 and rkm 1265, will it disappear or move towards the left bank, and would the velocities be increased at the downstream part of this sector. Mr. Zuijderwijk (Witteveen Bos) answered that the bar will move and that velocities will be increased. Mr. Stanic (MERŽS) emphasized that, even chevrons as an option, have better potential influence to the environment, that they have never being built in this area, so it would be useful to implement a sort of a pilot at one critical sector and to monitor impact of this solution to environment and to navigation conditions. Mr. Rast (WWF) said that it would be useful to investigate potential improvements of the existing structures, as well as to minimize the size of new structures, in order to minimize the negative impact to the environment. Mr. Nagy (DEU) asked why dredging is not an option for this critical sector, having in mind that quantities of the sediment to be dredged would not be high. Mr. Zuijderwijk (Witteveen Bos) stated that only dredging is not a sustainable option for dynamic parts of the river. Mrs. Muskatirovic (Plovput) added that critical sectors on the Danube River in Serbia have not been determined based on hydrografic survey data from 2011 only, but based on the dynamic analysis of digitalized hydrographic data from the period 1987-2011. Based on this analysis, this sector is critical not only at the section where bars protrude into the fairway, but at the wider area of the river which is characterized by very dynamic river bed. Mrs. Muskatirovic (Plovput) also informed participants of the meeting that Plovput's hydrographic survey team completed the surveying campaign of cross-sections at the 50 m distance at critical sectors (including not only main channel, but all side arms), and that those profiles will be used by consultants during development of the detailed morphological model for those six critical sectors at the next phase of the project.

Mr. Mitrovic (Plovput) concluded that during the previous four Stakeholders' Forum meetings six critical sectors which are on the Serbian stretch of the Danube River have been presented. He stated that for these six critical sectors a detailed morphological modelling is



going to be done, followed by the main designs and tender documentation for the works. Mr. Mitrovic then proposed for consultants to present results of the preliminary multi-criteria analysis (MCA) and evaluation of alternative solutions based on the criteria impact on navigation conditions during the low water periods, impact on the environment, and costs of implementation of proposed solutions. Forum members accepted this proposal, after which Mr. Mitrovic gave the floor to Mr. Zuijderwijku (Witteveen Bos) who presented results of the MCA for six critical sectors.

Mr. Zuijderwijku (Witteveen Bos) stated that option number 3 was evaluated within the MCA as the best alternative for the **critical sector Susek** (analysis of all alternatives is available at the Plovput's web site, in the section Stakeholders' Forum). Forum members agreed for this option to be analysed in the next phase of the project with the use of detailed morphological model, as well as to perform optimization of proposed structures in terms of precise location, number, and size. If the morphological model points out the negative impact to the environment, option based on dredging will be analysed. All participants of the meeting agreed on this proposal.

Mr. Zuijderwijku (Witteveen Bos) stated that option number 1 was evaluated within the MCA as the best alternative for the **critical sector Arankina Ada** (analysis of all alternatives is available at the Plovput's web site, in the section Stakeholders' Forum). Forum members agreed for this option to be analysed in the next phase of the project with the use of detailed morphological model, as well as to perform optimization of proposed structures in terms of precise location, number and size. Mr. Rast (WWF) said that it would be desirable, from the environmental protection point of view, to investigate implementation of sills with openings, and what effect would it have to the navigation conditions. He also proposed to test the option with sills in the left channel in the model, in order to keep the balance of the river dynamics. All participants of the meeting agreed on these proposals.

Mr. Zuijderwijku (Witteveen Bos) stated that option number 1 was evaluated within the MCA as the best alternative for the **critical sector Cortanovci** (analysis of all alternatives is available at the Plovput's web site, in the section Stakeholders' Forum). Forum members agreed for this option to be analysed in the next phase of the project with the use of detailed morphological model, as well as to perform optimization of proposed structures in terms of precise location, number and size. Mr. Rast (WWF) repeated the proposal to investigate implementation of sills with openings. All participants of the meeting agreed on these proposals.

Mr. Zuijderwijku (Witteveen Bos) stated that option number 3 was evaluated within the MCA as the best alternative for the **critical sector Beska** (analysis of all alternatives is available at the Plovput's web site, in the section Stakeholders' Forum). Mr. Nagy (DEU) proposed for the dredging option to be further analysed, having in mind a period of seven years after which original profiles would be re-established. Forum members agreed that these two options should be tested in detail within the morphological model, as well as on the need for optimization of proposed structures in terms of precise location, number and size.

Mr. Zuijderwijku (Witteveen Bos) stated that option number 3 was evaluated within the MCA as the best alternative for the **critical sector Preliv** (analysis of all alternatives is available at the Plovput's web site, in the section Stakeholders' Forum). Forum members



agreed for this option to be analysed in the next phase of the project with the use of detailed morphological model, as well as to perform optimization of proposed structures in terms of precise location, number and size. Mr. Stanic noticed that this critical sector could be the best location for the implementation of chevrons in the form of the pilot, based on which impact of these structures on navigation conditions and environment could be evaluated.

Mr. Zuijderwijk (Witteveen Bos) stated that option number 3 was evaluated within the MCA as the best alternative for the **critical sector Futog** (analysis of all alternatives is available at the Plovput's web site, in the section Stakeholders' Forum). Mr. Pajvancic (Vode Vojvodine) stated that at the left bank of the critical sector Futog, around the rkm 1261, there is a water supply intake structure and that this should be taken into consideration during the detailed design stage. In this zone, the bank protection was done to protect intake, but it is in bad conditions, and designers were asked to have that in mind especially since current 2D model predicts increase of velocities in that area. Mr. Rast (WWF) asked if the island at the downstream part of this sector, is eroding, and to which extent, and that this should be taken into account during the design phase. Mr. Zuijderwijk (Witteveen Bos) said that a several days before this meeting filed survey has been performed, and that no changes have been noticed, but that they will take this suggestion into consideration during the next phase of the project. Mr. Nagy (DEU) asked about the difference in costs between options with groins and chevrons. Mr. Mitrovic (Plovput) and Mr. Zuijderwijk (Witteveen Bos) answered that option with chevrons on this critical sector generate 10-20% higher costs in comparison to the option with groins. Participants of the meeting agreed that in the next phase of the project options 1 and 3 should be tested in details within the morphological model, as well as on the need for optimization of proposed structures in terms of precise location, number and size. Mr. Rast (WWF) recommended that, if the option with groins at the downstream part of this critical sector is evaluated as a better one, that groins should be opened and angled downstream. Mr. Zuijderwijk (Witteveen Bos) confirmed that this solution will be tested within the morphological model.

Mr. Mitrovic summarized that **the great result have been achieved by reaching a common agreement between all Forum members on the options which will be further tested with the use of detailed morphological model, and on behalf of Plovput thanked all participants for their active role and fruitful contribution in the planning process for measures within the current project.** After that, the timetables of the next meetings of the Forum have been discussed. It was confirmed that the fifth Stakeholders' Forum meeting will be held on 24th of October 2012, while sixth meeting have been provisionally set for 14th of November 2012. Venue and exact timing of those meetings will be defined in due time, in accordance to the timeframe set within the General rules on organization and work of the Forum. After kind words from Forum members about the way in which the meeting have been organized and chaired, and expressed willingness to continue activities within the Forum, Mr. Mitrovic thanked all participants for their active role in the Forum, with which the third meeting of the Forum was officially ended.



Next steps

Activity	Responsible	Deadline
Uploading of the documentation from the fourth meeting of the Forum to the web site of Plovput (agenda, list of participants, presentations, photos)	Chair person	17-09-2012
Delivering comments on the draft version of the MMs from the fourth meeting of the Forum to the chair person	All	29-09-2012
Distribution of the final version of the MMs to participants of the fourth meeting of the Forum	Chair person	04-10-2012
Uploading the final version of the MMs from the fourth meeting of the Forum to the web site of Plovput	Chair person	04-10-2012
Distribution of the draft agenda for the fifth meeting of the Forum	Chair person	14-10-2012
Delivering comments to the draft agenda for the fifth meeting of the Forum to the chair person	All	19-10-2012
Distribution of the final version of the agenda for the fifth meeting of the Forum	Chair person	22-10-2012
The fifth meeting of the Forum	All	26-10-2012
The sixth meeting of the Forum (provisional)	All	14-11-2012





