

SEE- Award (name "Herman Potočnik – Noordung Award" proposed by MHEST) for
**Research Infrastructure Donations within the Framework of RTDI Collaboration
 with West Balkan Countries**

Research Infrastructure needs
- Application form for Scientific & Research Institutions from West Balkan Countries

Section A – General information
A.1 Contact details
Name of applicant /(institution) PSI Hydrobiological Institute
Legal status / Type of organisation: Public independent institute
Address (Street name, ZIP code, town): Naum Ohridski-50; 6000 OHRID MAKEDONIJA
Telephone no.: ++38946231050 Fax no.: ++38946262910 e-mail: gocekos@hio.edu.mk web address/url:
represented by (name of person legally responsible) Goce Kostoski, Director
Name of the contact person Goce Kostoski, Director
Address (if different from address stated above)
Telephone no.: Fax no.: e-mail: web address/url:
A.2 Applicant (Institution) profile (half page A4)
<p>The Hydrobiological institute in Ohrid, established in 1935, is public and governmental science-research and educational organization of national interest. It covers research subjects in limnology as in natural lakes (mainly), as well in reservoirs and rivers. The main occupation are the limnology of the Great Natural Lakes in Republic of Macedonia (Ohrid, Prespa and Dojran), with special attention to Lake Ohrid - the oldest one in Europe and the biggest and deepest in Macedonia. More specific subjects of research in the Institute are organized in the following departments: physic-chemistry, microbiology, phytoplankton (algae and primary productivity), zooplankton, macro zoobenthos, macrophyte vegetation, cyprinid fishes, applied fishery and aquaculture, fish parasitology, eco-toxicology and molecular biology. Since its establishment in the institute is included a salmonid hatchery and nursery with capacity of 20 millions of eggs, alevins or fingerlings of the endemic Lake Ohrid trout species.</p> <p>During the last five years, the institute has been equipped with highly sophisticated field and lab facilities for research and monitoring program for Lake Ohrid and Prespa (the two biggest lakes in Macedonia), as well for performing lymnological investigations in other lakes and reservoirs.</p> <p>During the seven decades of its existence numerous national and international scientific research projects in the fields of hydrobiology and environment has been performed.</p> <p>In 2005 the Institute has been accredited for postgraduate studies (according the</p>

Bologna Convention) and in terms of this type of education it belongs to the University St. Kliment Ohridski in Bitola. Also the Institute has summer schools in field of hydrobiology and environmental protection.

At present at the institute are employed 36 persons: 20 of them are scientific staff (13 PhD and 6 Masters of Science, 1 young researcher), and the rest is technical and administrative staff.

Section B – Description of the research infrastructure requirements/needs

B.1 Please list your research infrastructure requirements – the most urgent equipment you would need.

1. IT equipment (lap top computers for field work) 5 pieces – technical specifications: (2 GHz, 1GB Lb RAM, DVD/RW, HDD 160 GB)

2. Equipment for conducting of molecular-biological analyses at the Laboratory for Molecular Biology with the Hydrobiological Institute.

- Micro centrifuge;
- Thermal cycler;
- UV transilluminator;

B.2 Describe the relevance of the requested research infrastructure for the work of your institution and the potential impact of receiving the items listed above (B.1).

- The lap top computers will be mainly dedicated for enhancing the field work and better and urgent data processing which will increase the data accuracy of the field instruments.
- The application of more modern methods in the resolution of taxonomical problems, for instance molecular – genetic analyses will lead to obtaining a more accurate picture of the presence of certain species, their taxonomical affiliation and contribute to solve a greater number of queries which cannot be explained by morphological and osteological analyses.

The latest achievements in the science worldwide allow opportunities for resolving most divergent scientific problems that could not have been discussed with implementing new data for a long time. It would prove very useful to update the Hydrobiological Institute in Ohrid as a scientific institution for conducting of modern molecular-biological analyses and in such manner to take part in the current scientific matters.

The Department of Molecular Biology at the Hydrobiological Institute is the most recent and a still developing one. At present it does not encompass apparatuses and equipment for molecular – biological analyses at its disposition.

B.3 Please indicate the potential users of the requested equipment.

1. The whole scientific and technical institute staff.

2. The potential users of the requested equipment will be scientists from SI Hydrobiological Institute - Ohrid, with knowledge of some molecular-biological techniques. Beneficiary of the investigation results will be the entire scientific public.

<p>B.4 Please describe the training needs of your institution related to the requested equipment</p> <p>NO</p>
<p>B.5 Please indicate if there is assistance needed with regard to the transportation and maintenance related to the requested equipment</p> <p>NO</p>
<p>B.6 Additional Comments</p>

Please fill in and return the form by email to the contact person in your country (see appendix 1)

Place, date: Ohrid: 23.11.2007 g.

Signature and Stamp of applicant

Kostoski Goce, Director