

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)	
<ul style="list-style-type: none"> UNIVERSITY HOSPITAL CENTER “MOTHER TERESA” OF TIRANA MEDICAL FACULTY, TIRANA UNIVERSITY 	
Legal status / Type of organisation:	
<ul style="list-style-type: none"> Public Instituion 	
Address (Street name, ZIP code, town)	
<ul style="list-style-type: none"> Rruga DIBRES, 372, Tirana, Albania 	
Telephone no.:	Tel/Fax: + 355 4 363644 / 362627
Fax no.:	Tel/Fax: + 355 4 363644 / 362627
e-mail:	drpilaca@yahoo.com
web address/url:	
represented by (name of person legally responsible)	
<ul style="list-style-type: none"> Dr. Arben Pilaca, Technical Director of University Hospital Center “Mother Teresa” of Tirana 	
Name of the contact person	
<ul style="list-style-type: none"> Prof. Asc. Anyla Bulo, Head of Laboratory Department, University Hospital Center “Mother Teresa” of Tirana, Medical Faculty, Tirana University 	
Address (if different from address stated above)	
Telephone no.:	+ 355 682074599
Fax no.:	+ 355 4 363644 / 362627
e-mail:	abulo@asolam.org
web address/url:	
A.2 Applicant (Institution) profile (half page A4)	
<ul style="list-style-type: none"> The "Mother Teresa" University Hospital Center of Tirana (UHCT) serves as the country's primary and unic teaching hospital for the University of Tirana Medical Faculty and Nursing School of Tirana. It is the leadership institution for the country's public health system; it operates with 1 400 beds and contains many specialities including internal medicine, surgery, pediatrics, neurology, and psychiatry. UHCT has a strong relationship and cooperation with Medical Faculty of Tirana (MFT). It consists in 16 Departments, which are composed of divisions or service. Laboratory Department is one of the UHCT and MFT departments. It is composed by: Clinical Biochemistry 	

Laboratory Service; Microbiology Laboratory Service; Immunology Laboratory Service.

- Laboratory Department organize and is respinsabile for: Postgraduated Spacialisation School in Laboratory Medicine Field; Master Degree Course School in Laboratory Medicine Field, and many PhD research works.
- Laboratory Department staff: 5 Prof.MD, 2 Associated Prof MD, , 1 PhD MD, 4 Master Degre,MD.
- There are in process 7 PhD clinical-laboratory research works, 1 international research project and 2 national research projects.

Section B – Description of the research infrastructure requirements/needs

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

- **Compact Water Purification System for clinical analyzer (ELGA Lab Water/ Medica Pro-RE)**

Make up flow rate (capacity)

- Not less than **120 l / hour**

Performance Specification

- Water purity: > 10 MΩ-cm at 25° C
- TOC < 30 ppb
- Bacteria level of < 1 CFU/ml
- Particles 0.05 µm filter
- pH effectively natural

Purification technology

- Pretreatment
- Reverse osmosis
- Ion exchange
- UV Photo –oxidation
- 0.05 ultra microfiltration

Operation Mode

- Power On/ Process On / Stand by
- Auto rinse
- Sanitization

Safety feature

- Emergency By pass
- Power failed safe
- Automatic level control
- Alarm warnings
- Automatic sanitization
- Auto restart
- Internal leak detection

System monitoring

- RO permeate quality (µS/cm)
- RO rejection %
- Product water quality
- Reservoir level liters

Outputs

- Optional BMS conections

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).

- After a very good investment from World Bank in laboratory equipment, actualy UHCT possess a new laboratory technology. But we possess an old water purification system and we have severe problems with laboratory- water quality.
- Not- appropriate quality of water interferes in every day work and research tests. This is why wee need an urgent replacement of old water purification system, in order to improve our laboratory scientific infrastructure.

<p>B.3 Please indicate the potential users of the requested equipment.</p> <ul style="list-style-type: none">• The instrument required is very important to use the new technology equipments that our laboratory posses.• This equipment will improve our entire scientific infrastructure.
<p>B.4 Please describe the training needs of your institution related to the requested equipment</p> <ul style="list-style-type: none">• Professional installation• ½ day training
<p>B.5 Please indicate if there is assistance needed with regard to the transportation and maintenance related to the requested equipment</p> <ul style="list-style-type: none">• Maintenance assistance will be performed by Biomedical Service of UHCT
<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: Tirana, 22.10.2007

Signature and Stamp of applicant

Dr. Arben Pilaca

Technical Director
University Hospital Center "Mother Teresa" of Tirana