

**Project Fiche – IPA Annual Action Programme 2007 for Bosnia and Herzegovina –
Strengthening of the BiH Metrology system**

1. Basic information

1.1 CRIS Number:

1.2 Title: Strengthening of the BiH Metrology system

1.3 ELARG Statistical code: 03.1-Free movement of goods

1.4 Location: Sarajevo, Bosnia and Herzegovina

Implementing arrangements:

1.5 Contracting Authority (EC): European Community, represented by the European Commission for and on behalf of beneficiary country

1.6 Implementing Agency: EC Delegation in Bosnia and Herzegovina

1.7 Beneficiary (including details of project manager):

Institute for Metrology of Bosnia and Herzegovina

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Financing:

1.8 Overall cost: 1,700,000 EUR

1.9 EU contribution: 1,700,000 EUR

1.10 Final date for contracting: N+2

1.11 Final date for execution of contracts: N+4

1.12 Final date for disbursements: N+5

2. Overall Objective and Project Purpose

2.1 Overall Objective:

The overall objective is to further develop the quality infrastructure in the BiH, in line with the provisions of the SAA, and to create an enabling environment for the BiH industries and manufacturers to improve their trade and industrial relations with the EU and international markets as well as quality of life.

2.2 Project purpose:

Development of the distributed metrology system according to the existing model in some EU member states and strong demands for internationally recognized quality of metrology services within framework of national metrology infrastructure, as well as to start preparation of Institute for Metrology of Bosnia and Herzegovina for its future full membership in EUROMET, EUROCHEM, WELMEC, OIML and Meter Convention.

2.3 Link with AP/NPAA / EP/ SAA

The European Partnership (EP) calls for BiH in the short term to implement current legislation in the areas of standards, certifications, metrology, accreditation and conformity assessment, and to align rules and regulations in these areas with the *acquis*, in particular to create conditions favourable to trade. (Section 2.2.3.1, 2.2.3.2, 2.2.3.3) Please refer to Annex III of the Project Fiche.

Similarly, the SAA calls for BiH to take the necessary measures to achieve conformity with Community technical regulations and European standardisation, metrology, accreditation and conformity assessment procedures and promote BiH's participation in the work of international related organisations (i.e. EA, WELMEC, EUROMET). (Title VI Approximation of Laws, Law Enforcement and Competition Rules, Article 76 Standardisation, Metrology, Accreditation and Conformity Assessment). Please refer to Annex III of the Project Fiche.

2.4 Link with MIPD

Similarly, in the area of European Standards, the Multi-Annual Indicative Programme (MIPD 2007-2009), foresees programmes being implemented to improve the legal framework for quality infrastructure and to enhance the thereto related institutional and professional capacity. As indicators of achievement, the MIPD expects to see that the legal framework for standardization, metrology, accreditation and certification of products will be in line with EU standards and best practices and that the institutional, technical and professional capacity of the quality institutions will be strengthened (Section 2.2.3.1, 2.2.3.2, 2.2.3.3).

2.5 Link with National Development Plan

The Bosnia and Herzegovina Medium Term Development Strategy has recognised that "Free Movement and Safety of Industrial Products" is one of key preconditions for creation of common economic space and economic growth in BiH. Basic goal is establishing common economic space in BiH that functions according to the rules of EU Internal Market and World Trade Organisation. (Section Common Economics Space) Please refer to Annex III of the Project Fiche.

2.6 Link with national/ sectoral investment plans(when applicable)

N/A

3. Description of project

3.1 Background and justification:

The Institute for Metrology of Bosnia and Herzegovina is the national measurement institution directly established under the Council of Ministers. It is responsible for the establishment of comprehensive measuring system in Bosnia and Herzegovina with traceability to the International System of Units, SI. The scope of jurisdiction of Institute for Metrology of BiH is clearly stated in the Law (Official Gazette of BiH, No. 43/2004). It is stated, under the article 7 item i, of the same Law, that Institute is in charge for international cooperation agreements in measurement field, as well as for the participation in the work of the international organizations and the representation of the Bosnia and Herzegovina in them.

Development of a measurement system in Bosnia and Herzegovina is essential for full implementation of the Law on Metrology of Bosnia and Herzegovina (Official Gazette of BiH, No. 19/2001), Law on Measurement Units of Bosnia and Herzegovina (Official Gazette of BiH, No. 19/2001), Law on the Establishment of the Institute for Metrology (Official Gazette of BiH, No. 43/2004) and for future integration within EU.

The Institute for Metrology started preparation of a "Strategy of the Development of the Metrology System in Bosnia and Herzegovina". The metrology sector is already associated with several transitional processes, such as establishing and developing an adequate institutional structure and metrology infrastructure, harmonizing the metrology system with EU practices and requirements with regard to legal, organizational and technical requirements.

Trends in legal metrology lead towards a global measurement of system which relies on a uniform system of units on one side and removal of technical barriers to trade on the other, as promoted by

WTO members. This indirectly entails the requirement of national technical regulations in the field of metrology. Mutual cooperation, confidence and recognition are the three essential steps towards achieving international harmonization in legal metrology. Confidence in testing and metrological competence is an absolute prerequisite for the metrological system to function. Each product should be tested before its placement at the market. Therefore, the adequate network of the laboratories within distributed measurement system should be established. Also, it is only possible for Institute for Accreditation of BiH to signed the EA MLA (European Accreditation Mutual Lateral Agreement), if we do have laboratories accredited according to the EN/ISO/IEC 17025 with its internationally harmonized measurement, traceable to the internationally recognized measurement standards (that is under the scope of the work of the Institute for Metrology of BiH). The same apply for the CIPM MRA (Mutual Recognition Arrangement of the International Committee for Weights and Measures), which should be signed by Institute for the Metrology of BiH.

According to Bosnia and Herzegovina 2006 Progress Report, little has been achieved in the area of free movement of goods. BiH has made limited progress in aligning its legislation and policies with European standards. The legislation on metrology is not harmonised with EU standards which requires a separation between legal, scientific and industrial metrology as well as harmonisation of legislation between the state and its entities. BiH will need to further enhance its capacity to respond to the requirements of the European Partnership in this respect.

Therefore, intervention in this area will contribute to the development of the distributed metrology system according to the existing model in some EU member states, and respond to the demands for internationally recognized quality of metrology services within a national metrology infrastructure, and at the same time starting the preparation of an Institute for Metrology of Bosnia and Herzegovina to secure future full membership in EUROMET, EUROCHEM, WELMEC, OIML and Meter Convention.

3.2 Assessment of project impact, catalytic effect, sustainability and cross border impact (where applicable)

This project will have huge impact on the creation of conditions for industrial and economic development of the state. Metrology is an interdisciplinary and interdepartmental activity and one of key prerequisites for progress and normal operations of the state. It is included in the following areas: services, industry, trade, environmental protection, protection of health, food, agriculture, traffic, telecommunications, science, sport, taxation activities, jurisdiction, police etc.

3.3 Results and measurable indicators:

Result 1. Improved legislation framework in order to meet requirements for harmonization of legislation with EU.

- 1.1. State laws reviewed and harmonized with the EU;
- 1.2. Specific area of legislation is harmonized with EU (as defined in Activities);
- 1.3. Prepared framework national legislation for future transposition and implementation of EC directives including MID (Directive on Measuring Instruments 2004/22/EC);
- 1.4. Performed the transition from legal to industrial metrology;
- 1.5. Created the highest possible efficiency and transparency of the distributed metrology system of Bosnia and Herzegovina in the field of national and reference standards;
- 1.6. Institute for Metrology of Bosnia and Herzegovina encouraged private and public sector to obtain the appropriate appointment of designated laboratories in order to wide distributed system of legal, industry and scientific metrology.

Result 2. Improved national metrology infrastructure in order to meet requirements with best practice EU laboratories

- 2.1. Increased technical competences for laboratories with national measurement standards;
- 2.2. Assessment of the needs and priorities of metrology in terms of infrastructure, measurement standards, equipment and technical competences prepared. This refers to the laboratories which are potential holders of the national measurement standards. Assessment will include preparation of the technical specification of the laboratories for various quantities in Institute for Metrology BiH property: mass, reference materials, electrical quantities, volume, time and frequency, as well as some laboratories in distributed system that will be procured thought second phase in IPA 2008-2009;
- 2.3. Building the capacities of selected laboratories (laboratory for mass, laboratory for reference materials and laboratory for electrical quantities), and procurement of the measurement standards and equipment;
- 2.4. Developed appropriate metrology system at the highest level with the national measurement standards in calibration laboratories for individual physical quantities or area of national importance, in compliance with the relevant international measurement standards.

Result 3. Institute for Metrology of Bosnia and Herzegovina is enhanced for future integration in related European and international metrology organizations (EUROMET, EUROCHEM, WELMEC, OIML and Meter Convention).

- 3.1. Institutional capacity of Institute for Metrology of Bosnia and Herzegovina is capable of fulfilling obligations under the SAA/EU standards and best practices EU laboratories;
- 3.2. The capacity of the national measurement system staff to fulfill their tasks is enhanced;
- 3.3. Training completed;
- 3.4. The National Metrology System is improved and it is ensured traceability for the selected national measurement standards to the internationally recognized measurement standards.

3.4 Activities:

1. Activities related to the result 1

- Assessment/screening in term of the legal framework for metrology and preparation of harmonization plan for legislation;
- Drafting of amendments to the laws;
- Drafting of general sub regulations to the state laws related to the scientific metrology (national measurement standards);
- Drafting of general sub regulations to the state laws related to the industrial metrology (according to the European Accreditation documents);
- Drafting of general sub regulations to the state laws related to the legal metrology (according to the documents of the International Legal Metrology Organization and the technical requirements set by the EU Directive on Measuring Instruments);
- Drafting of guidelines and regulations according to the recommendations of the International Legal Metrology Organization and the technical requirements set by the EU Directive on Measuring Instruments for specified quantities (mass, referential material, electrical quantities);
- Establishment of appropriate metrology system; Scientific and industrial metrology including metrology in chemistry and legal metrology;
- Harmonization of existing legal and organizational structure of Institute with EU legislation;
- Organization of public awareness activities targeting consumers and companies.

2. Activities related to the result 2

- Assessment of the needs and priorities of metrology in terms of infrastructure, measurement standards and equipment adequate to meet basic requirements;
- Preparation of technical specifications which will procure specific measurement standards and laboratory equipment and related training (This will include specification of the laboratories in Institute for Metrology of BiH property: mass, electrical quantities, reference materials, volume, time and frequency, as well as some laboratories in distributed system);
- Development of procedures and instructions for selected laboratories in order to update them to meet appropriate laboratory requirements and prepare them for accreditation;
- Carry out training need analysis and conduct training for selected laboratories staff.

3. Activities related to the result 3

- Carry out training need analysis and conduct training for metrology staff;
- Study visits for Institute for Metrology of BiH staff to the respective institutions in the EU Member States;
- Providing of traceability of selected measurement standards;
- Carry out interlaboratory comparison and proficiency testing for selected measurement standards and materials.

4. Activities related to the result 2

- Procurement of the measurement standards and equipment for specified laboratories (laboratory for mass, laboratory for reference materials and laboratory for electric quantities).

Activities under numbers 1, 2 and 3 will be realized by the Technical Assistance Contract and activity under number 4 will be realized as Supply Contract.

3.5 Conditionality and sequencing:

All conditions are in place for this activity to take place.

In relation to sequencing, the Technical Assistance is tasked with the preparation of Technical specifications for equipment to be procured (this will be finalised and endorsed by the key beneficiaries by the end of the Inception Phase). Once approved, tendering procedure for supply contract will start.

3.6 Linked activities

CARDS 2002- Regional Quality Infrastructure Project

The first (CARDS 2002) Regional Quality Infrastructure Project carried out by the European Committee for Standardization (CEN) assisted the countries of the Western Balkans to develop the quality infrastructure in the region and to broaden the basis for mutual confidence between the five countries/region and the EU. By working together the countries could pool their expertise, share knowledge, resources and facilities in a variety of fields: technical regulations, standardisation, accreditation, testing-certification-inspection, metrology and market surveillance. This programme ended in December 2006.

3.7 Lessons learned

The Institute for Metrology of Bosnia and Herzegovina participated only in CARDS 2002 Regional Quality Infrastructure Project. This project included all institutions for quality infrastructure. This project improved the cooperation between the relevant national metrology

institutions in the region and allowed us to compare our metrology system including the infrastructure with others in the region. However, Institute for Metrology of B&H did not get any direct assistance for the procurement of the metrology standards and equipment for the establishment of the laboratories while the other countries in the region received such assistance.

4. Indicative Budget (amounts in €)

Activity- Strengthening of the BiH Metrology system	TOTAL COST	SOURCES OF FUNDING											
		EU CONTRIBUTION				NATIONAL PUBLIC CONTRIBUTION				PRIVATE			
		Total	% *	IB	INV	Total	% *	Central	Regional	IFIs	Total	% *	
contract1: Strengthening of the BiH Metrology system	1,000,000	1,000,000	100%	1MEUR		0	0						
contract 2: Procurement of the measurement standards and equipment for laboratories	700,000	700,000	100%		700,000								
TOTAL	1,700,000	1,700,000	100%			0	0						

* expressed in % of the Total Cost

5. Indicative Implementation Schedule (periods broken down per quarter)

Contracts	Start of Tendering	Signature of contract	Project Completion
Strengthening of the BiH Metrology system	Q1 2008	Q2 2008	Q4 2009
Procurement of the measurement standards and equipment for laboratories	Q3 2008	Q4 2008	Q1 2009

All projects should in principle be ready for tendering in the 1ST Quarter following the signature of the FA

6. Cross cutting issues

6.1 Equal Opportunity

Equal opportunity principles and practices in ensuring equitable gender participation in the Project will be guaranteed.

6.2 Environment

The project will not have any negative environmental effects.

6.3 Minorities

Participation in the project activities will be guaranteed on the basis of equal access regardless of racial or ethnic origin, religion or belief, disability, sex or sexual orientation.

ANNEX I: Logical framework matrix in standard format

LOGFRAME PLANNING MATRIX FOR Project Fiche	Programme name and number: Strengthening of the BiH Metrology system	
	Contracting period expires:31/12/2009	Disbursement period expires: 31/12/2012
	Total budget : 1,700,000 EUR	IPA budget: 1,700,000 EUR

Overall objective	Objectively verifiable indicators	Sources of Verification	
The overall objective is to further develop the quality infrastructure in the BiH, in line with the provisions of the SAA, and to create an enabling environment for the BiH industries and manufactures to improve their trade and industrial relations with the EU and international markets as well as quality of life.	Advancement in the Stabilisation and Association process (Sap) BiH meets the requirements of the SAA	Annual Progress Report issued by EC	
Project purpose	Objectively verifiable indicators	Sources of Verification	Assumptions
Development of the distributed metrology system according to the existing model in some EU member states and strong demands for internationally recognized quality of metrology services within framework of national metrology infrastructure, as well as to start preparation of Institute for Metrology of Bosnia and Herzegovina for its future full membership in EUROMET, EUROCHEM, WELMEC, OIML and Meter Convention.	New enactments in connection to metrology. (amendments to the laws and sub regulations for metrology). Metrology infrastructure developed in specified laboratories. Technical competences of specified laboratories increased.	Official Gazette of BiH	Political willingness to approve, at State level, BiH regulations that transpose EU directives. Commitment and motivation of beneficiaries and recipients to receive Technical Assistance and to implement reforms
Results	Objectively verifiable indicators	Sources of Verification	Assumptions
The results expected to be generated by the project are summarised here. Detailed results are given in 3.3 above: Improved legislation framework in	New legislation is adopted in the filed of metrology; Needs assessment documents produced; Increased competences for specified	Amendments to laws; Harmonisation plan for legislation; Sub-regulations; Assessment documents of the needs and priorities of metrology in terms of	The project operates in a clear institutional framework; Institute staffed and operational; Good technical level of the staff; There is adequate cooperation between

<p>order to meet requirements for harmonization of legislation with EU .</p> <p>Improved national metrology infrastructure in order to meet requirements with best practice EU laboratories</p> <p>Institute for Metrology of Bosnia and Herzegovina is enhanced for future integration in related European and international metrology organizations (EUROMET, EUROCHEM, WELMEC, OIML and Meter Convention).</p>	<p>laboratories;</p> <p>Traceability of measurements for some relevant physical quantities is ensured;</p> <p>Interlaboratory comparisons and proficiency testing are carried out.</p> <p>Number of staff trained.</p> <p>Identified institutions trained;</p> <p>Cooperation with the relevant bodies improved;</p> <p>Public awareness campaign delivered.</p>	<p>infrastructure, measurement standards and equipment adequate to meet basic requirements;</p> <p>Technical specifications for procurement of measurement standards and equipment for laboratories including training needs;</p> <p>Measurement standards and equipments delivered for specified laboratories and in full use;</p> <p>Laboratory procedures and instructions for specified laboratories;</p> <p>Calibration Certificates as proof of traceability of selected measurement standards;</p> <p>Inter-laboratory comparison and proficiency testing reports;</p> <p>Training needs analysis document;</p> <p>Seminar and training, participants evaluation sheets;</p> <p>Media coverage of the Public awareness campaign;</p> <p>Project and Monitoring Reports.</p>	<p>various stakeholders;</p> <p>The government will be committed to adopt and implement laws.</p>
Activities	Means	Costs	Assumptions
<p>Detailed Activities are given in 3.4. above These are summarized here:</p> <p><u>Activities related to the result 1</u></p> <ul style="list-style-type: none"> ▪ Assessment/screening of existing legal framework and drafting amendments to the laws and sub regulations for scientific, industrial and legal metrology ; ▪ Drafting guidelines and regulations following International Legal Metrology Organisation and EU directive on Measuring Instruments; ▪ Harmonisation of BiH Institute structures with EU legislation; • Organisation of public awareness 	<p>Technical Assistance Contract (for details, see Annex IV)</p> <p>Supply Contract (for details see Annex IV)</p>	<p>TA 1 million Euro (<i>Contract 1</i>)</p> <p>Supply of equipment 700.000,00 Euro (<i>Contract 2</i>)</p>	

activities.

2. Activities related to the result 2

- Preparation of technical specifications for purchasing laboratory equipment and related training;
- Development of laboratory procedures and instructions in preparation for accreditation;
- Training of selected laboratory staff.
- Assessment of the needs and priorities of metrology in terms of infrastructure, measurement standards and equipment adequate to meet basic requirements;

3. Activities related to the result 3

- Training and study visits to familiarize staff with EU metrology environment
- Provide traceability of selected measurement standards;
- Perform inter-laboratory comparisons and proficiency testing;
- Preparation of Institute for future integration in related metrology organisations.

4. Activities related to the result 2

- Procurement of the measurement standards and equipment for specified laboratories.

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ANNEX II: amounts (in €) Contracted and disbursed by quarter for the project

Contracted	Q2/2008	Q3/2008	Q4/2008	Q1/2009	Q2/2009	Q3/2009	Q4/2009
Strengthening of the BiH Metrology system	1M						
Procurement of the measurement standards and equipment for specified laboratories			0.7 M				
Total	1M		0.7 M				
Cumulated	1M		1.7 M				
Disbursed							
Strengthening of the BiH Metrology system	0.30M		0.30M		0.30M		0.10M
Procurement of the measurement standards and equipment for specified laboratories			0.42M	0.28M			
Total	0.30 M		0.72 M	0.28 M	0.30 M		0.10 M
Cumulated	0.30 M		1.02 M	1.3 M	1.6 M		1.7 M

ANNEX III Reference to laws, regulations and strategic documents:

Reference list of relevant laws and regulations

Law on Metrology of Bosnia and Herzegovina
(Official Gazette of BiH, No. 19/2001)

Law on Measurement Units of Bosnia and Herzegovina
(Official Gazette of BiH, No. 19/2001),

Law on the Establishment of the Institute for Metrology of Bosnia and Herzegovina (Official Gazette of BiH, No. 43/2004)

Link with MIPD

In the area of European Standards, the Multi-Annual Indicative Programme (MIPD 2007-2009), foresees programmes being implemented to improve the legal framework for quality infrastructure and to enhance the thereto related institutional and professional capacity. As indicators of achievement, the MIPD expects to see that the legal framework for standardization, metrology, accreditation and certification of products will be in line with EU standards and best practices and that the institutional, technical and professional capacity of the quality infrastructure institutions will be strengthened. (Section 2.2.3.1, 2.2.3.2, 2.2.3.3)

Link with EP

The European Partnership (EP) calls for BiH in the short term to implement current legislation in the areas of standards, certification, metrology, accreditation and conformity assessment; to establish the institutions provided for by this legislation and equip/staff them so that they can implement their tasks; and to align rules and regulations in these areas with the *acquis*, in particular to create conditions favourable to trade. The EP requires establishment of a market surveillance structure responding to the requirements of the *acquis* on free movement of goods and establishment of an internal consultation and notification mechanism of new technical regulations prior to their adoption on measures having an impact on trade. Priorities stated in EP 1.21.k and 1.21.h are related to the metrology. It is stressed that it should be established measurement standard database and ensured its traceability to the internationally recognized measurement standards for different physical and chemical quantities. Further, it includes harmonization of BiH legislation to EC regulations for the legal metrology including adoption of MID (Directive on Measuring Instruments 2004/227EC), then harmonisations of the procedure for the conformity assessment of the measuring instruments and harmonization of the procedure for the adoptions and implementation of standards and other documents and procedures of the related international organizations.

(Section European Standards/ Free movement of goods)

Link with SAA

SAA calls for BiH to take the necessary measures in order to gradually achieve conformity with Community technical regulations and European standardisation, metrology, accreditation and conformity assessment procedures by promoting the use of Community technical regulations, European standards and conformity assessment procedures; providing assistance to fostering the development of quality infrastructure: standardisation, metrology, accreditation and conformity assessment; promoting BiH's participation in the work of organisations related to conformity assessment, metrology (i.e. EA, WELME, EUROMET) and concluding an Agreement on Conformity Assessment and Acceptance of Industrial Products once the legislative framework and

the procedure of BIH are sufficiently aligned on that of the Community and appropriate expertise is available.

(Title VI Approximation of Laws, Law Enforcement and Competition Rules, Article 76 Standardisation, Metrology, Accreditation and Conformity Assessment)

Link with BiH Mid-Term Development Strategy (PRSP)

The Bosnia and Herzegovina Medium Term Development Strategy has recognised that "Free Movement and Safety of Industrial Products" is one of key preconditions for creation of common economic space and economic growth in BiH. Basic goal is establishing common economic space in BiH that functions according to the rules of EU Internal Market and World Trade Organisation. It states that major goal in joining the EU internal market means: BiH companies, in most of the cases, can export their products and services without meeting any additional conditions in comparison to conditions in BiH market and that lives and health of people, domestic animals, environment and interests of consumers are protected from unsafe domestic and imported products. (Section Common Economics Space)

Link with EU Integration Strategy of BiH

Signing the SAA, the BiH single economic space will integrate gradually into the EU internal market. Internal market is the basis of the present structure of the EU, as it is one of the most important elements for reaching aims such as sustainable development, high level of employment and social protection, better living standards and quality of life, economic and social cohesion. Freedom of movement of goods made up of a whole series of directives and regulations, are the basic principles of the internal market. Acceptance and observance of these principles instigates economic reforms and competitiveness of economy as a whole, stimulates trade and investment, and contributes to development and consolidation of macro-economic stability. On the other hand, harmonisation of legislation creates a legal framework suitable for maximum economic effect, with special attention afforded to institution development. Strategy sets priorities to be implemented:

- Implement the law and build a product liability system, and the Directive on product liability, and establish a market supervision infrastructure.
- Adopt a state level harmonisation program, i.e. a program of transposition of legislation and regulations and development of infrastructure for harmonisation assessment.
- Realise the remaining part of the programme in the next three years, i.e. implement the regulations adopted within the programme.
- Establish an effective infrastructure for programme implementation, using working groups comprising representatives of all the parties concerning in BiH.
- Implement priority segments of the programme (in particular, transpose directives of the *new approach* and the *global approach*, and directives related to food trade).
- Establish a scheme for staff training and evaluation in the area of harmonisation assessment.
- Secure an effective and uniform system in the area of standards, measurements, accreditation and technical regulations, and secure effectiveness and uniformity of such systems across BiH.
- Establish certification bodies for the quality system and staff.
- Establish bodies for harmonisation assessment (laboratories, certification and control/inspection bodies) for other groups of products.
- Secure for BiH institutions and associations in the area of standards, measurements, accreditation and harmonisation assessment full membership in relevant international organisations and associations, particularly EA, OIML, IAF, ILAC, etc.

- Enter the MLA agreement and sign PECA protocols with the EU for priority areas (group of products).
 - Sign PECA protocols with the EU for other groups of products important for BiH economy.
 - Sign special treaties (agreements) on recognition of documents in areas of harmonisation assessment, aimed at increasing export on the basis of free trade agreement already signed.
- (Section 2.3.2 Internal market, Section 2.3.2.2. Free flow of goods)

ANNEX IV

1) **Strengthening of the BiH Metrology system TECHNICAL ASSISTANCE PROJECT**

Key Experts

Long Term Expert: Team Leader –14 months

Long Term Expert: 13 months

Pool of Short Term Experts – minimum 450 days

The contractor is supposed to provide the following services:

Component 1

- Assessment/screening in term of the legal framework for metrology and preparation of harmonization plan for legislation;
- Drafting of amendments to the laws;
- Drafting of general sub regulations to the state laws related to the scientific metrology (national measurement standards);
- Drafting of general sub regulations to the state laws related to the industrial metrology (according to the European Accreditation documents);
- Drafting of general sub regulations to the state laws related to the legal metrology (according to the documents of the International Legal Metrology Organization and the technical requirements set by the EU Directive on Measuring Instruments);
- Drafting of guidelines and regulations according to the recommendations of the International Legal Metrology Organization and the technical requirements set by the EU Directive on Measuring Instruments for specified physical quantities (mass, referential material, electrical quantities);
- Establishment of appropriate metrology system;
- Harmonization of existing legal and organizational structure of Institute with EU legislation;
- Organization of public awareness activities targeting consumers and companies;

Component 2

- Assessment of the needs and priorities of metrology in terms of infrastructure, measurement standards and equipment adequate to meet basic requirements;
- Preparation of technical specifications which will procure specific measurement standards and laboratory equipment and related training (This will include specification of the labs. in IM BIH property: mass, electrical quantities, reference materials, volume, time and frequency, as well as some laboratories in distributed system);
- Development of procedures and instructions for selected laboratories in order to update them to meet appropriate laboratory requirements and prepare them for accreditation;
- Carry out training need analysis and conduct training for selected laboratories staff.

Component 3

- Carry out training need analysis and conduct training for metrology staff;
- Study visits for Institute staff to the respective institutions in the EU Member States;
- Providing of traceability of selected measurement standards;
- Carry out interlaboratory comparison for selected measurement standards;
- Preparation of the Institute for future integration in related European metrology organizations.

2) Procurement of the measurement standards and equipment for laboratories SUPPLY PROJECT

Procurement of the measurement standards and equipment for specified laboratories (laboratory for mass, laboratory for reference materials and laboratory for electric quantities);

Technical Assistance project is tasked with preparation of Technical specifications for equipment which will needed to be procured (these must be finalised and endorsed by the key beneficiaries by end of the Inception Phase). Once approved, tendering procedure for supply contract shall start.