

# Projects Description *for* ARASIA TC Programme TC Cycle 2016-2017



**Project Number:** RAS/6/084

**Project Title:** Harmonising Radiation Dosimetry Practices through the Enhancement of Metrology and Quality Management for Secondary Standards Dosimetry Laboratories

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**Overall objective:** To enhance the safe use of radiation technology in ARASIA State Parties by supporting the SSDLs in ARASIA State Parties to provide radiation dosimetry services at an internationally acceptable level in terms of metrology and of quality through the establishment of Quality Management Systems in ARASIA SSDLs.

**Project duration:** 2 years

## PROJECT DESCRIPTION

**Regional Gap / Problem / Need Analysis:** SSDLs in ARASIA State Parties are either well established or still in the planning/implementation phase. The SSDLs of Syria and Saudi Arabia are members of the IAEA/WHO SSDL network. The SSDLs of Lebanon and Jordan are established but not members of the IAEA/WHO SSDL network, while the SSDLs of Iraq, Qatar, Oman, Yemen and the UAE are in the planning/implementation phase. All SSDLs need either technical support to reach the recognized international level in metrology and in application of quality management system. This project will help SSDLs in ARASIA in harmonizing and sharing best practices in the field of radiation metrology. Since 1999, after the establishment of Mutual Recognition Arrangement (MRA) by the CIPM, the Calibration and Measurement Capabilities (CMCs) claimed needs to be supported by a functional and demonstrated Quality Management System (QMS) according to ISO 17025 standard. In considering the above, the establishment of a documented quality system is a major task for services harmonization; accreditation and getting international recognition are important issues. These are not simple obstacles giving that accreditation body are not existing in most ARASIA State Parties. Auditing and verification of standards are also difficult to be achieved in the current situation. However, with the support from the IAEA, this project, ARASIA State Parties may join efforts to achieve stated objectives. The established SSDLs in ARASIA region may take a lead position in the effort to reach the project objectives. The lack of well-qualified technical auditors is a major issue for the sustainability of QMS. Within the activities of this project, a training program of a team of technical auditors within ARASIA State Parties can be established. The availability of trained technical auditors will assist SSDLs in the ARASIA region to perform gap analysis of QMS implementation.

**This project is proposed as a regional activity for the following reason(s):** Sharing the regional knowledge among the ARASIA state parties and optimal use of the available resources.

**Stakeholder Analysis and Partnership: Where appropriate:** • National regulatory bodies; • National accreditation bodies; • National metrology institutes; • Ministry of health; • Research and education institutes; • Industries.

**Role of nuclear technology:** Nuclear technology is unique for this type of application.