United Nations Development Group Iraq Trust Fund Project #: E4-19 Date and Quarter Updated: October-December 2010 (Quarter 4)

Participating UN Organisation: UNIDO Sector: Economic Reform & Diversification (ERDSOT) GoI– Responsible Line Ministry: Ministry of Industry, Specialized Institute for Industrial Engineering (SIEI) Rehabilitation of the Specialized Institute for Engineering Industries Title Geo. Location Baghdad **Project Cost** US\$ 4,237,722 (excluding US\$ 600,000 in kind contribution from the SIEI) Duration 24 months **Approval Date** 04.06.2009 09.06.2009 09.06.2011 **Starting Date Completion Date** The present project intends to assist Iraq in its endeavours for the reconstruction of its economic Project Description infrastructure. It will particularly provide support for the rehabilitation of the Specialized Institute for Engineering Industries (SIEI), which due to the war and subsequent sanctions has suffered extensive damage, including the total or partial destruction of its laboratories and production workshops. The successive conflicts have also hindered its technical capacities and access to new information on modern technologies, international standards and quality assurance systems. Under this project, assistance will be provided to rebuild the capacity of the SIEI to assist the Iraqi industries with the application of national standards and adaptation of international standards to their needs, to carry out proper quality assurance activities and testing of industrial products and to seek international recognition of its competence through accreditation. The project will particularly provide assistance in: (i) Training a substantial number of SIEI managerial and technical staff on standardisation, quality assurance, and conformity assessment (testing, inspection and certification) subjects; (ii) Acquiring appropriate instrumentation, equipment and reference materials for its testing/calibration laboratories and production workshop; and (iii) Initiating testing and other product quality assurance activities for the local manufacturing industry, service sector and consumers. The project will include significant emphasis on technology transfer related to operational techniques, procedures and policies issues.

Development Goal and Immediate Objectives

In line with the international, national and UN Country Team strategies for Iraq, this project is working towards the achievement of the following medium term outcomes:

- 1. Enhanced capacity of the SIEI/Ministry of Industry to respond to the needs of the manufacturing industry, service sector and consumers and facilitate industrial development in Iraq.
- 2. Industry has access to improved services that would enable precision manufacture and quality improvement of their products.

Outputs, Key Activities and Procurement

Outputs	• A comprehensive framework developed for the SIEI to support the development of the industries		
	in Iraq through the provision of technical and information support, quality assurance and		
	conformity assessment services (testing, inspection, certification, etc.).		
	• The managerial and technical staff of the SIEI has acquired the knowledge and skills to meet the		
	needs of the manufacturing industry, service sector and consumers.		
	• The SIEI testing and calibration laboratories, production workshop and information facilities		
	(library) are rehabilitated to adequately respond to the demands of the manufacturing industry,		
	service sector and consumers.		
Activities	Policy, legal and regulatory framework: Under this component, the project will:		
	• Evaluate, review and update the policies and procedures that address the operation of the SIEI		
	and its related activities and services (testing & calibration, product certification, import/export		
	inspection, product design, training, etc.).		
	• Review and update the legal and regulatory framework covering the institutional setting and the		
	mandate of SIEI, to fit the international best practice.		

	• Carry out a sensitization/awareness programme for representatives of SIEI/MoI, the public and
	private sector, and structures cooperating with SIEI (Central Organization for Standardization and
	Quality Control - COSQC, etc.) on the role of standardization and conformity assessment in the
	compliance of local products with international standards and market requirements and protection
	of consumers from sub-standard products.
	• Conduct a specific training programme for the SIEI/MoI, representatives of the Central
	Organization for Standardization and Quality Control (COSQC), and the private sector, on the
	dev. of national and int. standards, adaptation of international standards to local needs, and
	inspection and certification of industrial products and systems.
	• Evaluate the internal and external communication policies of SIEI and develop: (i)
	recommendations to generate better understanding of the institute's objectives throughout the
	Iraqi industries; (ii) Publicity material (promotional brochures, web pages, etc.) aimed at
	increasing SIEI services visibility among consumers.
	<i>Capacity building – skills development:</i> The project will allow for know-how transfer and training
	in quality (SMTQ), production and economy related areas to a substantial number of SIEI
	managerial and technical staff. The development of technical and managerial skills will focus on, but
	will not be limited to, the following areas:
	• Knowledge and skills in the fields of standardization, quality assurance, and conformity
	assessment services (testing and material analysis, inspection, certification, etc.).Knowledge and skills in the fields of heat treatment, modern welding technologies, general
	• Knowledge and skins in the fields of heat treatment, modern weighning technologies, general industrial maintenance, and production workshop management, etc.
	• Knowledge and skills in the fields of project management; preparing business plans and
	feasibility studies; network administration, etc.
	<i>Capacity building – SIEI facilities upgraded:</i> The project will acquire appropriate equipment,
	instrumentation, and reference materials for the SIEI testing/calibration labs and production
	workshop, and assistance will be provided in preparing the laboratories towards international
	accreditation of their services. The project will further rehabilitate and provide the SIEI library with
	up-to-date facilities, engineering and technical periodicals, test reports, etc. to serve the industrial
	information needs of the local industries.
Procurement	Major items under procurement are the following:
(major	Laboratory testing equipment for various products;
items)	Laboratory furniture equipments;
	Production workshop equipments
	• Sub-contract for specialized training in selected fields (advanced welding technology; testing
	procedures; etc.).

procedures; etc.)).	
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Funds Committed	USD 1,694,498	% of approved	40
Funds Disbursed	USD 940,952	% of approved	22
Forecast final date	30 June 2011	Delay (months)	N/A

Beneficiaries	Number of Beneficiaries	% of planned
The primary beneficiary is the SIEI, which will benefit from enhanced capacity both in terms of skills development and in terms of equipment for testing and calibration laboratories, production workshop, information facilities, etc. The capacity of the SIEI would be strengthened to conform to accepted international practices.	35 staff from the SIEI and COSQC (management and engineers)	70%
The secondary beneficiaries of the project are the line Ministry for the SIEI (MoI) and the apex institutions dealing with Standards, Accreditation, Metrology and Testing in the country.	MoI and the Central Organization for Standardization and Quality Control – COSQC	40
The tertiary beneficiaries are the local manufacturing and service facilities that would benefit from having access to standards information, calibration and testing facilities, inspection and certification services that would enable precision manufacture and quality improvement of their products.	Industrial sector	-

Quantitative Achievements against Objectives and Results

	Quantitative Memore remember against Objectives and Results		
1	A comprehensive framework developed for the SIEI to support the development of the industries in Iraq through the provision of technical and information support, quality assurance and conformity assessment services (testing, inspection, certification, etc.).	% of planned	55
2	The managerial and technical staff of the SIEI has acquired the knowledge and skills necessary to meet the needs of the manufacturing industry, service sector and consumers	% of planned	50
3	The SIEI laboratories, production workshop and library are rehabilitated to adequately respond to the demands of the manufacturing industry, service sector and consumers.	% of planned	50

Qualitative Achievements against Objectives and Results

Activity	Results	Status	
Output 1: A comprehensive framework developed for the SIEI to support the development of the industries in Iraq through the provision of technical and information support, quality assurance and conformity assessment services (testing, inspection, certification, etc.).			
• Evaluate, review and update the policies and procedure that address the operation of the SIEI and its relate activities and services (testing & calibration, producertification, product design, etc.).	• Report completed and submitted for the	completed	
• Review and update the legal and regulatory framework covering the institutional setting and the mandate of SIE to fit the international best practice.	• Report completed and submitted for the	completed	
• Conduct a sensitization programme for representatives of SIEI/MoI, the public and private sector, and structure cooperating with SIEI (COSQC, etc.) on the role of standards and conformity assessment in the compliant of local products with international standards and mark requirements and protection of consumers from substandard products.	 accreditation) took place in Beirut- Lebanon from 15-18 of October 2010, Training on Equipment calibration, Method Validation and Establishment of 	Ongoing	

Activity	Results Sta	itus
Output 1: A comprehensive framework developed for the S through the provision of technical and information support, inspection, certification, etc.).		
• Conduct a specific training programme for the SIEI/MoI, representatives of COSQC, and the private sector, on the development of national and inter. standards, adaptation of inter. standards to local needs, and inspection and certification of industrial products and systems.	• Completed the preparation for the programme.	Ongoing
• Evaluate the internal and external communication policies of SIEI and develop recommendations to generate better understanding of the institute's objectives.		1
• Develop publicity material (promotional brochures, web pages, etc.) aimed at increasing SIEI services visibility among industries and consumers.		Ongoing
• Monitor the framework developed and take corrective measures.	• Ongoing	Ongoing

Output 2: The managerial and technical staff of the SIEI	has the knowledge and skills necessary to meet the	needs of the
manufacturing industry, service sector and consumers.		1 , 1
• Confirm the SIEI human resources skill gaps in the	• SIEI human resources skills gap analyzed and	completed
light of the project purpose, and plan the overall	overall training program identified for both	
training program for the identified gaps.	management and technical subjects.	
• Organize the training program for the SIEI Quality	• Training on ISO 17025 (Laboratory	Ongoing
Department:	accreditation) took place in Beirut-Lebanon	
- Development and implementation of QMS and EMS	from 15-18 of October 2010,	
(ISO 9001 and ISO14001) and auditing procedures;	• Prepared training programme for ISO 9001	
- Water treatment and pollution control;	and ISO 14001, Lead auditor course: planned	
- Materials testing and analysis	for the first quarter of 2011	
- Modern measurement techniques;	• Prepared NDT training programme: planned to	
- Testing of electrical components and motors;	take place in the first quarter of 2011	
- Calibration of measuring instruments/equipment;	• Prepared metrology training programme: to	
- Inspection and certification of selected prod./services.	take place in Amman-Jordan in the first week	
	of February 2011.	
	• Further trainings to be discussed during the 4 th	
	PSC.	
• Organize the training program for the SIEI Production	Training programme on TIG welding	Ongoing
Department:	completed in Beirut-Lebanon in October 2010.	
- Heat treatment;	Training on Production Workshop	
- Advanced welding technology;	equipments/CNC's under preparation,	
- General industrial maintenance;	candidates under evaluation, planned to take	
- Production workshop management.	place in UK in the first quarter of 2011.	
	• Further trainings to be discussed during the 4 th	
	PSC.	Ĩ
Activity	Results	Status
Output 2: The managerial and technical staff of the SIEI manufacturing industry, service sector and consumers.	has the knowledge and skills necessary to meet the	needs of the
• Organize the training program for the SIEI Economy	• 3rd Training on Organizing the Structure of	Ongoing
Department:	SIEI and Staff posting completed in	Oligonig
- Project management;	December 2010 with the participation of 5	
- Preparing business plans;	SIEI Executive Managers.	
- Preparing feasibility studies;	Training on Leadership Management for:	
- Network administration.	- DG from ministry of transportation	
- Network administration.	- DG from ministry of rail ways	
	- DG from ministry of education	
	- Two Executive Manager of SIEI	
	Completed in Nov. 2010, Vienna/Austria.	
	Training on business planning and	
	negotiations skills for Heads of the	
	administrative departments completed in	
	September 2010, Beirut – Lebanon.	
	Training Leadership & Management Skills for	
	the Heads Deputies of the administrative	
	departments completed in September 2010,	
	Beirut – Lebanon	
Output 3: The SIEI laboratories, production workshop at		ely respond
to the demands of the manufacturing industry, service sec	-	
• Assess the SIEI existing laboratories/production	Assessment of the SIEI existing	Completed
workshop and identify equipment and training needs.	laboratories/production workshop finalized.	
• Design technical specifications for identified		C 1. (1
• Design technical specifications for identified	 Technical specifications for identified 	Completed
	• Technical specifications for identified equipment completed.	Completed
equipment gaps (together with reference	*	Completed
	equipment completed.	Completed
equipment gaps (together with reference	equipment completed. • Final Recommendation for the Technical	Completed

 Order, purchase and install the equipment and train the users for operation and maintenance in the: Laboratory for materials and metallurgical products testing; Laboratory for electrical products testing; Laboratory for engines testing; Laboratory for plastics and rubber testing; Production and maintenance workshop/Metrology laboratory Network – IT Production Workshop Software 	 Metrology lab equipments under evaluation NDT laboratory equipment under evaluation. IT equipment under procurement. Building Materials laboratory equipment specified. Workshop equipments purchased and under delivery. Laboratories furniture delivered and being installed. Technical Software specified. 	Ongoing
• Plan and organize study/fellowship training overseas for key laboratory staff.	 Training on CNC machines prepared and planned for 1st quarter of 2011 Prepared training programme for ISO 9001 and ISO 14001, Lead auditor course: planned for 1st quarter of 2011 Prepared NDT training progr.: planned to take place in the 1st quarter of 2011 Prepared metrology training programme: to take place in Amman-Jordan in the first week of February 2011. 	Ongoing

Activity	Results	Status
Output 3: The SIEI laboratories, production workshop and information facilities are rehabilitated to adequately 1 the demands of the manufacturing industry, service sector and consumers.		
• Assist in preparing for and obtaining international accreditation for the laboratories.	• Continue work for lab accreditation: 2 nd workshop for evaluation and completion of validation to take place in March 2011.	Ongoing
• Assess the SIEI library needs in terms of office equipment & software, periodic/books and management.	 Upgrading needs of the SIEI library identified. Proposal for upgrading the library presented to- and approved by the SIEI management. Required Equipments specified 	Completed
• Assemble a library of current national and inter. periodicals and test reports to provide background information for the SIEI and their partners or consumers.	 Training programme for national staff specified and currently under preparation to take place in Canada. Books, publications, furniture, Equipments and etc. specified and under procurement. 	Ongoing
• Continuously supervise and advise on the use of supplied equipment/laboratories.	• Several visits by the PMU	Ongoing
• Monitor the operation of SIEI and adjust if necessary.	• 2 nd Project Committee Meeting in Amman- Jordan on the 30 of June, 2010.	Ongoing

Main Implementation Constrains & Challenges

- Movement and activities in the project area are limited and security is a concern at all times.
- Delays in reply from the national counterparts due the security situation.
- Difficulties in getting travel visas for training organized aboard.