46575 STEG Tunisia power transmission project EBRD/EIB/STEG

ENVIRONMENTAL AND SOCIAL ACTION PLAN (ESAP)

Main STEG departments involved in the ESAP:

DEQ: Division for Equipment (responsible for implementing the power transmission project)

DSE: Division for Security and Environment

DTPE: Division for Transport and Production of Electricity

See other acronyms at the end of the document.

No.	Action	Risk or opportunity	Responsibility	Schedule	Objective/indicator for completion		
1. ESA	1. ESAP organisation, implementation and monitoring						
1.1	Designation of a person at STEG who will be responsible for the implementation and follow-up of the ESAP. STEG has suggested that this "ESAP officer" could be DEQ's current Health, Safety and Environment (HSE) officer. This person will be assisted by the DSE.		STEG – DEQ	Describe the organisation when signing the financing agreement. The organisation will be in place for the entire duration of the loan.	Organisation in place		
1.2	Annual report Provide an annual report describing implementation of the ESAP. EBRD will provide the report format.		STEG – DEQ	Entire duration of the loan	Annual report provided		

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2. INT	. Integrated Quality Management System					
2.1	Obtain ISO 14001 and ISO 45001 certification/Marhaba quality label¹ for the concerned STEG entities ISO 9001, ISO 14001 and ISO 45001 (OHSAS 18001) certification: • DEQ ISO 14001 and ISO 45001 certification: • STEG Tunis Nord Power Transmission Base • North-East Power Transmission Base Marhaba quality label for the following STEG districts: • Ariana • Le Kram • Nabeul • Manouba	STEG mostly works along appropriate procedures, but there is a lack of documentation/knowledge of these procedures. STEG has already worked on ISO 9000, 14000, 26000, 45000, 55000 certifications, but has slowed down since 2011. STEG has now started working on an Integrated Quality Management System. Opportunity to speed up this process for the entities that will implement the project. Bases and districts have ISO 9001 certification already.	STEG – Total Quality Project	2018	Certifications/labels obtained	
2.2	Organisation for social impacts management at STEG STEG will describe and implement an organisation for the management of social impacts of projects, including: • Follow-up and monitoring of social impacts • Public information and consultation; • Land Acquisition and Compensation (cf 3.2).	Social impact management of projects is currently spread over several STEG entities: the « Citizen Relationships Bureau », the « Communication Development Project », the « Legal Affairs and Insurance Project », the DEQ and the Districts.	DSE, DEQ, Districts, Citizen Relationships Bureau, Communication Development Project, Legal Affairs and Insurance Project	3 months after signature of the finance agreement	Organisation in place	

 $^{^{1}\,\}mathrm{A}$ national quality label for customer reception. 2

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3. ENV	3. Environmental and social management of the Power Transmission Project						
3.1	Stakeholder Engagement Plan Implement the project's Stakeholder Engagement Plan. The Plan defines the information, consultation and communication actions which will be implemented by STEG during the different project phases. For instance, the SEP describes public information meetings and the project grievance mechanism		ESAP Officer (assisted by DSE and communication department)	Duration of the loan	Actions described in the annual ESAP report		
3.2	Land Acquisition and Compensation Framework	sted currently follows appropriate procedures for land acquisition and compensation, but some items are missing to reach conformity with good international practices: • monitoring • Socioeconomic assessment • compensation for permanent loss of access to land under electrical pylons	ESAP officer, project manager, contractor, STEG districts, STEG Legal Affairs and Insurance Project	To start with the tendering procedure	Reports are provided to EBRD Conformity with EBRD and EIB social policies		

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3.3	HSE monitoring and control of construction and operation Prepare a procedure for monitoring and control of HSE aspects during construction and operation, which will be included in DEQ's ISO 45000 (OHSAS 18001) management system. The procedure will include all the items listed under 4.6. Include monthly HSE monitoring of construction activities based on the building site logbook.	Despite appropriate HSE procedures, daily HSE practice seems insufficient on building sites	DSE and all entities working on building sites	Definition of the procedure: 3 months Following ISO 45000 certification schedule	A written procedure exists Monthly HSE report is available during the entire construction period		
3.4	Avian protection plan Prepare and implement an avian protection plan for the power lines		ESAP officer	Avian plan submitted to EBRD before the end of construction, implemented during the entire loan period	Implementation described in annual ESAP report		
4. Env	4. Environmental Management and Occupational Health and Safety during Construction						
4.1	Risks assessment for construction works for power lines and underground cables Prepare a risk assessment as basis for action 4.2 below	No such risk assessment currently exists	DSE and all entities working on building sites	Immediately	Risk assessment is produced		

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4.2	Specifications for prevention of occupational health and safety (OHS) risks for all STEG workers The specifications can be included in the OHSAS 18000 or ISO 45000 system. It is recommended to include them in a worker's manual. They should cover at least: For all workers Transportation in vehicles* Walking* Musculoskeletal disorders Handling of loads Working with screens Dangerous chemical products Noise Fire Radiotelephones and mobile phones Relations with the public* For workers on building sites Personal protective equipement (PPE)* Organisation and signalling of sites* Works at height* Excavations* Cutting of trees and bushes Machinery Machine handling of loads Asbestos Natural environment *particularly relevant for the present project	OHS specifications for workers exist for live working and are included in a worker's manual, but no specifications for other types of work has been identified	Will concern DEQ for the construction phase and the DPTE for the operation phases. To be prepared by DSE in cooperation with relevant personnel and HSE officers. To be validated by STEG's HSE committee.	Draft: mid-2016 Validation under the quality management system: 2018	Worker's manual is handed over to all workers Improvement of STEG's accident statistics
4.3	Training and accreditation of all the building site personnel All employees of contractors and sub-contractors working on STEG's building sites will receive training at STEG's training center and be accredited for safe work on building sites.	Ensure that all construction site workers adopt appropriate OHS procedures	STEG and contractors	2018	All building site personnel is accredited
4.4	OHS training and awareness raising for STEG construction site managers Building site managers must be better aware of the need to implement OHS procedures (cf 4.6) and environmental management of construction sites.	Despite appropriate HSE procedures, daily HSE practice seems insufficient on construction sites	DSE (provision of training) and DEQ	Before construction	All site managers working under the project are trained

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	 Quality certification of contractors Contractors bidding for construction of power lines or substations for DEQ will be required to prove that they are certified by an independent auditor for management of quality, environment and OHS (ISO 9001, ISO14001 – OHSAS 18000 or ISO 45000). This requirement will apply to: All tenders for construction of electrical susbtations or high-voltage lines All construction projects worth more than 1 million dinars (this limit will be readjusted periodically) 	STEG does not require all contractors to be certified (NB: most contractors are ISO 9001-certified and some are ISO 14001-certified)	DEQ, purchasing department	When tendering	All contractors are quality certified
	ESMP and contractor HSE plan STEG will reinforce the current environmental and social prescriptions of its tenders by preparing an ESMP (Environmental and Social Management Plan). The HSE plan to be submitted by contractors should be conform to this ESMP. The ESMP will cover (but not be limited to): (i) organisation for HSE (ii) signalling of building sites (iii) excavation works (iv) works at height (v) waste (vi) oil and other dangerous or polluting substances (vii) soils, erosion and revegetation (viii) felling of trees (ix) workers' accomodation and sanitary facilities on building sites (x) first aid (xi) dust and gas emissions (xii) noise (xiii) liquid effluents (xiv) protection of waterbodies (xv) relations with the public (xvi) site rehabilitation The cost of this HSE plan will be identified separately in the bidding	STEG asks for a security plan in its tender documents, but not for an environmental management plan.	DEQ, purchasing department	ESMP in tender documents for the project, even in a simplified version Detailed EMSP prepared 6 months after signature of financing agreement	ESMP prepared HSE plan submitted and validated by STEG for each contract

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4.7	HSE accreditation of sub-contractors Formalise the current procedure for accreditation of sub-contractors, including HSE criteria. In particular, require a % of personnel trained for first aid.	All personnel working on building sites should adopt the same HSE procedures as STEG	STEG (purchasing department)	Before the tendering procedure for the project	The accreditation procedure is described and includes HSE criteria
4.8	Sub-contractors HSE plan Sub-contractors will be required to present their own HSE plan. This plan should include designation of a person responsible for HSE on the building site. The plan should be validated by the contractor and conform to the contractor's HSE plan.				All sub-contractors have provided a plan, validated by STEG
5. ELE	CTROMAGNETIC FIELDS				
5.1	Laying underground cables at distance from dwellings As much as reasonably possible, underground power cables will be laid at a distance from dwellings: • 7 m or more for 90 kV cables; • 10 m or more for 225 kV cables	Precautionary measure to avoid all questions about the impact of electromagnetic fields, even if these impacts are insignificant	DEQ	Design phase	Maps of underground cables provided
5.2	Public information about electromagnetic fields The public will be informed about the possible impacts of electromagnetic fields by means of a website and flyers.	Idem.	STEG Communication Development Project	Before construction	Website exists and flyers have been provided
5.3	On demand measurement of electromagnetic field intensity Residents living nearby power lines can ask STEG (via the local under-delegate) to measure the field intensity in their houses.	Idem.	DSE	Duration of the loan	STEG performs measurements when asked

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6. Fu	TURE POWER TRANSMISSION PROJECTS				
6.1	Planning of new transmission projects (electrical substations, power lines and underground cables): environmental and social aspects Decisions about future project should consider environmental and social aspects, as follows: • Prepare strategic or regional impact assessments of power transmission programs • Programs should be conform STEG's environmental and social policies: public service, energy savings, greenhouse gas emission reductions, production of renewable energies etc. • Environmental and social aspects should be considered not only in the detailed design of power lines, but also in the decision to build the line or not • Include public consultations at the planning stage for all projects • Prepare environmental and social impact assessments for all power transmission projects, including assessment of impacts on landscape and avifauna, and including public consultation	STEG currently does not include environmental and social aspects when comparing alternatives for power transmission (except the systematic avoidance of urban areas) The environmental and social assessment prepared for the project is not conform with EU Directive 2011/92/UE (modified in 2014) (but has been complemented) The public consultations performed to date for the project do not include sufficient stakeholders representing local residents (but these will be consulted through the Stakeholder Engagement Plan) Opportunities exist to improve STEG's practice for the next programs	Planning department and DEQ, assisted by DSE and STEG's Communication Development Project	Next power transmission program	
6.2	 Land acquisition and compensation procedure for future projects Finalise the « SERVITUDE » project² Work with the Tunisian government on a system to compensate farmers for permanent loss of access to land under electrical pylons Develop an internal procedure for identification, information and compensation of affected persons, which will be standardized and applied to all projects in a systematic way. Implement and monitor the application of the procedure. 		STEG + Tunisian State	2 years	The « Servitude » project is finalised The Tunisian law is changed if needed.

 $^{^{2}}$ Ongoing STEG project for improvement of the current land acquisition and compensation procedure $8\,$

Acronyms

DEP Direction des Etudes et de la Planification (STEG planning department)

DEQ Direction de l'Equipement (STEG)

DPTE Direction de la Production et du Transport d'Electricité (STEG power production and transmission department)

DSE Direction Sécurité et Environnement (STEG)

EBRD European Bank for Reconstruction and Development

EIB European Investment Bank

ESAP Environmental and Social Action Plan

ESMP Environmental and Social Management Plan

HSE Health, Safety and Environment

ISO International Standardization Organization

OHS Occupational health and safety

STEG Société Tunisienne d'Electricité et de Gaz

UE European Union