

Environmental Monitoring Report

Bi-annual Report (CJSC Electro Power Systems Operator)
Covering the period of January - June 2016

ARM: Power Transmission and Rehabilitation Project

Project Number: 46416-002
ADB Loan/Grant Number: L3150-ARM
Prepared: July 2016

Prepared by the Closed Joint Stock Company Electro Power Systems Operator (EPSO) for the Republic of Armenia and the Asian Development Bank.

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Part I - Introduction

The present Environmental Management (EM) Report summarizes the project Environmental, Health & Safety status of project supervision 6 months (January - June 2016) by EPSO CJSC.

The main accomplishment of assignment was initial and final EH&S evaluation of the Bidding Documents submitted by Bidders in accordance to the project specific EMP, EH&S requirements/forms and Bidding Documentation as integral part in line with ADB Guidelines.

In accordance with the task assignments of the above mentioned period (January –June 2016), background information, sources, publicly available documents, reports prepared by SCADA, EH&S policy and analysis, Initial Environmental Examination (IEE) Report and Environmental Management Plans (EMPs) and Bidding Documents (prepared by the former Consultant “Fichtner”), Technical forms etc. are provided to the Bidders for Technical and Financial proposals.

It is important to note, that the existing studies and forms/documents were made for following two components: a) Rehabilitation of the Substations and b) Replacement of the Ground wires, of the Project. And only (b) Replacement of the existing ground wire by an Optical Ground Wire (OPGW) considered for this (Bidding document evaluation) stage of the project.

A preliminary overview of the submitted EH&S Bidding documents (EH&S forms, Certificates (ISO, OSHA etc.), Past Performance, and Budget) identifies that the quality of Environmental, Health & Safety (EH&S) data provided by Bidders mostly coherent and additional information and documents (mainly Certificates) gathering for final evaluations required from only some Bidders:

Details, fact findings and further project execution/action plan has been discussed and agreed during the Evaluation panel kick-off and working meetings.

Part II - Environmental Management and Document Review

During the reporting period (January - June 2016) specific Health, Safety & Environmental (HSE) requirements (based on ADB HSE Safeguards, IEE, and EMPs developed for the project) have been developed and integrated in the Bidding documents for the entire evaluation of received Bids in terms of HSE completeness, responsiveness, compliance of bidders.

The Bidders are required to provide/submit the following HSE documentation/certifications and evidences/information:

- 1 Health, Safety and Environment Program Certification specified in Section 4 in compliance with ITB11.1.
- 2 Health, Safety and Environmental Experience/Performance of contractor, subcontractors, or management contractor for at least the last 10 years as per section 3 clause 2.4.3 of the Bidding Documents
- 3 Health, Safety and Environmental Past Performance Form EXP - 3: Health, Safety and Environment (HSE) Contractor Performance Questionnaire
- 4 Valid ISO 9001, 14001 and OHSAS 18001 or equivalent certifications in compliance with IEE and EMP requirement.
- 5 Bid HSE/ EMP and IEE/ Implementation Price according to the Section IV, Schedule IV (Installation Service), point 8, and **ADB Operational Manual Section F1/BP, points 14, 27, 29 (issued on 29 October 2003) and IEE/EMPs (Appendixes A and B, Chapter 9.2.5 - summarizing costs of implementation of the EMP)** requirements of the Bidding Documents
- 6 Details and experience records of the proposed personnel (HSE with at least 5 general and 5 similar years' experience) according to, Section III item 2.5, the format included in Section IV (From PER-1 & PER-2) and ITB 11
- 7 Number and qualification as well as period of stay of HSE personnel, total number of local personnel required plus the calculated man-month according to the ITB 11

Final Evaluation report with EH&S component was submitted to ADB on 15 June 2016

Part III - Environmental Monitoring

No environmental monitoring program is developed and implemented during the reporting period.

No on-site monitoring was needed since no construction activities were implemented during the reporting period.

The monitoring program will be developed with the construction contractor as a part of contractor's SEMP prior to the start of construction activities. Monitoring plan will be approved by PIU and Supervision consultant (Joint Venture of Lahmeyer International GmbH and CESI S.P.A. in association with Ameria CJSC).

The Program is subject to amendments and updates upon the need during the construction phase of the Project.

Part IV Action Plan for the Next Period

In accordance with the task assignments of first half year (July - December, 2016) period it is planned to:

- Expected that The Contract with Contractor will be signed on 3rd quarter 2016.
- Supervise and report the progress of implementation of the EMP to ADB, including Project compliance with (a) all applicable laws and regulations of Armenia relating to environment, health and safety; (b) the Environmental Safeguards; (c) all measures and requirements set forth in the IEE, the EMP, and any corrective or preventive actions set forth in a safeguards monitoring report,
- Assist Contractor with capacity building on environmental safeguard, Based on the updated Environmental Management Plan;
- Assist Contractor that any adverse environmental impacts are minimized by implementation of the mitigating measures and monitoring program as detailed in the reviewed environmental management plan (EMP);
- Report any violation of environmental standards and the measures taken to restore compliance to ADB;
- Review and approve HSE action plan(s) of the selected Contractor established for 6 months project implementation.