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İşin Adı : Mersin-Adana-Osmaniye-Gaziantep Yüksek Standartlı Demiryolu Hattı
The Name of the Job : İnşaatı ile Elektromekanik Sistemlerinin Temini
Construction of Mersin-Adana-Osmaniye-Gaziantep Hight Standard Railway Line With Supply Of Electromechanical Systems

Rapor Adı : SOIL MANAGEMENT PLAN
Report Name

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1. PURPOSE

The purpose of this plan is to ensure that the area or its surroundings within the boundaries of the Project are regularly audited to ensure that the soil structure is not damaged due to the activities carried out in the project and that soil pollution does not occur.

This plan also defines the rules, duties and responsibilities that must be followed.

2. SCOPE

It covers the project boundaries and impacts on the surrounding areas of the project.

3. REFERENCES

- Regulation on Control of Soil Pollution and Point Source Contaminated Sites (RSCP) (Official Gazette Date / Number: 08.06.2010/27605)
- Regulation on Control of Excavated Soil, Construction and Demolition Wastes (Official Gazette Date / Number: 18.03.2004/25406)
- Regulation on General Waste Management Principles (Official Gazette Date / Number: 05.07.2008/26927)
- Hazardous Waste Control Regulation (Official Gazette Date / Issue: 14.03.2005/25755)

In addition to Turkish Regulations, waste management practices within the scope of the Project must also comply with the following IFC and EBRD Guidelines:

- IFC General Environmental, Health and Safety Guidelines
- IFC Environmental, Health and Safety Guidelines for Healthcare Facilities

4. DUTIES AND RESPONSIBILITIES

4.1. Project Manager

Responsible for ensuring that the plan is prepared and implemented in accordance with local regulation and lender requirements. It is also responsible for providing the resources necessary for the implementation of the plan.

4.2. HSE Manager

- Responsible for the preparation/preparation and follow-up of the implementation of the plan in accordance with local regulations and creditor requirements,



- The nonconformities detected in the implementation of the plan are immediately reported to the project management and the work is stopped if necessary,
- Guiding project management to prevent soil pollution,
- Ensuring that necessary sampling is carried out by accredited institutions in case of suspicion of soil pollution. Monitoring the test results and presenting them to the management,
- Disposal and reporting of contaminated soil in accordance with waste management,

4.3. Headquarter E&S Manager

Responsible for managing infrastructure and superstructure projects regarding environmental and social governance issues and member of the Executive E&S Committee on behalf of the REC

4.4. SubRECs and Employees

Responsible for complying with the rules conveyed by the REC HSE Unit and training its employees on the subject.

4.5. PIU (Project Implementation Unit)

- **PIU Physics Engineer** who is responsible for supervising health and safety for the Project.
- **PIU Department Manager (Superstructure / Civil Engineer)** will be responsible for overseeing the implementation of all health, safety and social measures, as specified within the disclosure package of the Project, and regular reporting to AYGM PIU.
- **PIU Department Manager (Environmental and Feasibility / Environmental Engineer)** will be responsible for supervising the implementation of all environmental and biodiversity measures, as specified within the disclosure package of the Project, and regular reporting to AYGM PIU.
- **PIU Environmental Engineer (Environmental Issues Coordination Staff)** will be responsible for overseeing the implementation of all environmental and biodiversity measures, as specified within the disclosure package of the Project, and regular reporting to AYGM PIU.

4.6. Executive Environmental and Social Management Committee

- **Executive E&S Committee Project Manager (Department Head / Branch Manager /Head of Department)** will be ultimately responsible for overseeing the



activities undertaken by the AYGM/TCDD specialists (listed below), overseeing the implementation of mitigation measures and management procedures specified within the disclosure package of the Project, and overseeing the preparation and implementation of a CESMP, which will be based on this ESMP.

- **Executive E&S Committee Environmental, Health and Safety, and Social (EHSS) Manager (Specialist / Engineer)** will be responsible for overseeing all matters that relate to environment, health, safety and social aspects of the Project. Also, s/he will be appointed to be responsible for supporting the implementation of the SEP, by conducting regular consultation with affected communities on any concern regarding the Project. CLOs will also have responsibility for disseminating the Project disclosure package as described in the SEP. They will also conduct regular inspections of records relating to grievances received and their resolution. S/He will report regularly to AYGM PIU.

Further technical staff may be required during the course of the Project, who will be assigned internally by the AYGM, either by means of permanent or temporary basis until the completion of relevant tasks under the Project whilst they undertake their current responsibilities.

5. GENERAL RULES AND PRACTICES

Construction machinery that may cause leaks and spills in the project area will be regularly maintained to prevent spills.

Fuel refueling points will be determined and refueling will be provided only in these areas. By making these areas impermeable, soil and groundwater pollution will be prevented.

During the project, wastes will only be disposed of in designated areas, and especially waste leaks will be prevented from entering the soil.

Hazardous wastes will be stored in authorized special departments and disposed of in accordance with local regulations.

In the demolition of buildings containing asbestos, wet demolition will be carried out to minimize the asbestos mixture in the soil.

Asbestos waste will be disposed of in accordance with the regulations and will not be deposited on the vegetable soil.

Before and after the project, samples will be taken from the region for soil pollution.

The fertile part of the soil will be stripped and stored for use in improvement works.



Unauthorized open discharge will not be made from the project site or mobilization areas.

A circulation plan will be determined for the project vehicles and the vehicles will be prevented from causing soil pollution by choosing off-route roads. Drivers and operators will be informed about the route.

All of the project employees will be informed about the prevention of soil pollution during the induction training.

An inventory of chemicals used in the project site will be kept and, according to these inventories, necessary sealing and discharge measures will be taken to prevent chemicals from damaging the soil.

In all excavation works, the landslide hazard will be evaluated and necessary precautions will be taken.

The risk of water erosion will be assessed by evaluating rainwater and runoff. Necessary evaluations will be made in order not to cause the fertile minerals of the soil to flow with rain water (especially not to damage civilian areas).

Waste water from the concrete plant will be collected in the settling pool in accordance with the regulations and there will be no direct discharge to the soil.

Pre-Construction Mitigation Measures:

The detailed design of the Project will incorporate the following measures to reduce the likely release of loose material or material with the potential to become loose in- situ:

- o Slope stabilisation - including mulching (straw mulching), brushwood mulching, erosion control blankets (protective nets), soil binders (e.g. polyacrylamide), hydro-seeding and gravelling;
- o Retaining walls - to retain loose materials on slopes where it would not naturally be held, for example on near vertical or vertical slopes;
- o Sediment traps and basins - which will intercept and retain sediment-laden runoff;
- o Drainage channels - which will divert run-off water;
- o Treatment systems - to remove material contained within the run-off water; and
- o Revegetation - to increase the stability of the loose materials and surfaces which become exposed during the construction phase of the Project

PIU will report to the Lenders on incidents in the monthly EHSS Report.

Construction Mitigation Measures:

- Construction equipment, machines and vehicles will be parked on arranged locations.
- Parking surfaces (soil, gravel, and rock) will be protected from pollution by oil, oil derivate, naphtha and naphtha derivate. In case of pollution, measures will be taken in accordance with the Law on Soil Protection ("Official Gazette of RS" no. 112/15).
- All petroleum and its derivatives manipulations during construction works, like machine supply, will perform on defined place with maximum precautions to avoid spilling.
- Where heavy equipment cannot be moved to fueling points, an impervious surface will be used for refueling this equipment to prevent accidental leakage to groundwater. The construction REC will avoid refueling near watercourses.
- If it comes to soil pollution due to oil spilling or in some other way, polluted soil should be removed and taken away on permanent landfill.
- Washing of equipment, machinery and vehicles will be prohibited within construction area.
- Concrete mixer washout areas will be designated and any other washing of concrete mixer and uncontrolled removal of the remaining parts of concrete mass on any surface outside road area will be prohibited.
- Excavated material will be re-used to the extent possible.
- Excess materials will be used during site arrangement and reinstatement activities.
- Before storage of excess excavated materials, soil samples form excess material and proposed storage site will be sampled to understand the suitability of the proposed area for the storage.
- Hazardous materials will not be stored in excavated areas.
- Exposure to hazardous materials in open areas will be kept to a minimum in size and time.

The following monitoring tools will be used:

- Visual Inspections
- Soil quality analysis
- Warnings/penalties given by public authorities
- Complaint records

Operational Mitigation Measures:

In order to prevent soil erosion, loss and degradation along the Project alignment the Operational Soil Management Plan (OSMP) will be prepared. It will include measures to:

- o Maintain sediment traps and basins, drainage channels and treatment systems;
- o Maintain slope stability (cuttings and embankment).

The OSMP will include measures for revegetation and/or maintenance of vegetation to increase the stability of potentially loose materials and surfaces which may develop during the operational phase of the Project.

TCDD Transport will prepare annual progress reports for the Lenders.



6. MONITORING, ASSURANCE AND VERIFICATION

Key success indicators (KPIs) of this procedure will be monitored, verified and evaluated by the relevant parties in accordance with their responsibilities set forth in the E&S Governance document, within the scope of the MAOG-RECU-GB-GNL-IS-PRG-0007-0 HSE Monitoring, Assurance and Verification Procedure.



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