



REPUBLIC OF TURKEY
MINISTRY OF TRANSPORT
AND INFRASTRUCTURE

AYEM
Altyapı Yatırımları Genel Müdürlüğü

ÇINAR[®]
ENGINEERING
CONSULTANCY INC.



**FILYOS PORT AND INDUSTRIAL ZONE RAILWAY CONNECTION
PROJECT**
COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN
CNR-ZNG-CHSMP-002
Final

COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 2



Bağlıca Mah. Çambayırı Cad. Çınar Plaza No:66/5 06790 Etimesgut/ ANKARA

Tel: +90 312 472 38 39 Fax: +90 312 472 39 33

Web: cinarmuhendislik.com

E-mail: cinar@cinarmuhendislik.com

All rights of this report are reserved.

All or part of this report cannot be reproduced, copied, electronically reproduced, traded, transmitted, sold, rented, used for any purpose, or used in any form and method in digital and/or electronic media without written permission from Çınar Engineering Consultancy Inc. as per the Law No. 5846 on Intellectual and Artistic Works amended with the Law No. 4110.



**REPUBLIC OF TURKEY
MINISTRY OF TRANSPORT
AND INFRASTRUCTURE**



Official Use Only

COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 3

Project Owner	T. C. Ministry of Transport and Infrastructure General Directorate of Infrastructure Investments
Address	Hakkı Turaylıç Cad. No: 5 06338 Emek/Çankaya/ANKARA
Telephone and Fax Numbers	+90 (312) 203 10 00
Project Title	Filyos Port and Industrial Zone Railway Connection Project
Project Location	Zonguldak Province, Çaycuma District
Consultant	Çınar Engineering Consultancy Inc.
Address	Bağlıca Mah. Çambayı Cad. Çınar Plaza No: 66/5 06790 Etimesgut / ANKARA
Telephone and Fax Numbers	Phone: +90 (312) 472 38 39 Fax: +90 (312) 472 39 33
Report Submission Date	25.12.2025



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 4

TABLE OF CONTENTS

TABLE OF CONTENTS.....	4
LIST OF TABLES	5
ABBREVIATIONS & DEFINITIONS	6
1. INTRODUCTION.....	7
1.1. Scope.....	7
1.2. Performance Indicators.....	7
2. ROLES AND RESPONSIBILITIES.....	9
3. LEGAL FRAMEWORK.....	10
3.1. National Legislation	10
3.2. International Standards.....	13
4. MITIGATION MEASURES AND MANAGEMENT CONTROLS	14
4.1. General Requirements.....	14
4.2. Site Specific Requirements.....	15
4.2.1. Road Accident Risks	15
4.2.2. Trespassing Accidents	15
4.2.3. Communicable Diseases	16
4.2.4. Safety and Disturbance to Schools in Surroundings of Construction Activities.....	16
4.2.5. General Railway Operational Security	16
4.2.6. Level Crossing Security	17
4.2.7. Pedestrian Safety	17
5. TRAINING, REPORTING AND MONITORING	19
5.1. Training	19
5.2. Reporting and Monitoring	19
6. REFERENCES.....	21



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 5

LIST OF TABLES

Table 1. Key Performance Indicators for EHS	7
Table 2. Prominent Regulations Covered by National Legislation.....	10
Table 3. Monitoring Activities	19



REPUBLIC OF TURKEY
MINISTRY OF TRANSPORT
AND INFRASTRUCTURE



Official Use Only

COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 6

ABBREVIATIONS & DEFINITIONS

CCTV	Closed-Circuit Security Cameras
CHSMP	Community Health and Safety Management Plan
Contractor	Expert Firms responsible for the construction of the Project on behalf of DGII
DGII	General Directorate of Infrastructure Investments
EHS	Environmental, Health, and Safety
ESIA	Environmental and Social Impact Assessment
ESIRT	Environment and Social Incidence Response Toolkit
ESMP	Environmental and Social Management Plan
ESS	Environmental and Social Standards
ETP	Employment and Training Plan
GBV	Gender-Based Violence
GM	Grievance Mechanism
HS	Health and Safety
KPIs	Key Performance Indicators
OHS	Occupational Health and Safety
OHSMP	Occupational Health and Safety Management Plan
PPP	Pollution Prevention Plan
PTC	Positive Train Control
RCA	Root Cause Analysis
SEA	Sexual Exploitation and Abuse
SH	Sexual Harassment
TTMP	Traffic Transportation Management Plan
WB	World Bank
WMP	Waste Management Plan



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 7

1. INTRODUCTION

This plan aims to minimize the project's impact on the safety and security of local communities during land preparation and construction activities. This Community Health and Safety Management Plan (CHSMP) provides guidance for the project phases.

Enhancing safety awareness within the communities affected by the construction should help reduce the risk of accidents.

Mitigation measures addressing impacts on human health and safety are detailed in various Management Plans, such as the Emergency Response Plan, Employment and Training Plan, Traffic (Transportation) Management Plan, Pollution Prevention Plan, and Waste Management Plan. The primary standard mitigation measures outlined below will be applied with a specific focus on land preparation and construction:

CHSMP is established to:

1. Prevent any adverse impact on the safety of local residents throughout all project phases,
2. Promote safety awareness within the local community and prevent an increase in diseases or health issues caused by project activities, especially during the construction phase,
3. Ensure that safeguarding of personnel and property is conducted in an appropriate manner that avoids or limits risks to the community's safety and security.

1.1. Scope

The CHSMP encompasses the scheduled land preparation and construction activities of the project. It is developed for use by DGII employees, contractors, and subcontractors. Contractors are also obligated to integrate CHSMP requirements into their respective management plans. The roles and responsibilities pertaining to the implementation of the CHSMP are outlined in Chapter 2.

1.2. Performance Indicators

Below are the key performance indicators (KPIs) for the implementation of the CHSMP, and corresponding indicators will also be integrated into the Project's Environment, Health, and Safety (EHS) procedures and plans:

Table 1. Key Performance Indicators for EHS

Key Performance Indicator	Timeframe	Target	Record	Responsibility
Percentage and number of community health and safety mitigation measures implemented on-site (e.g., dust suppression, noise control, traffic management, hygiene measures)	Monthly	Ensuring that all relevant personnel participate in community health and safety mitigation measures	Monitoring Records	Contractor
Number of community safety trainings and GBVH&SEA/SH performed	Continuously	Ensuring that all relevant personnel participate in training	Training Records	Contractor
Number and nature of grievance recorded and satisfactorily resolved within stipulated time	Continuously	Gradual reduction and/or zero complaints	Complaint Records	Contractor

COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 8

Key Performance Indicator	Timeframe	Target	Record	Responsibility
Project health and safety information provided to the local PAPs and vulnerable groups	Before construction works start and during construction (if required)	Establishing and maintaining effective communication mechanisms	Consultation records	Contractor
Number of complaints about traffic problems	Continuously	Gradual reduction and/or zero complaints	Complaint Records	Contractor
Number of traffic training provided to workers	Twice a year	Ensuring that all relevant personnel participate in training	Training Records	Contractor
Road safety and traffic measures information provided to the local PAPs and vulnerable groups	Before construction works start and during construction (if required)	Establishing and maintaining effective communication mechanisms	Consultation records	Contractor

These performance indicators are crucial for monitoring the effectiveness of the CHSMP and ensuring that health and safety standards are met throughout the project's lifecycle.



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 9

2. ROLES AND RESPONSIBILITIES

Contractors are responsible for meeting the requirements outlined in this CHSMP by customizing them to suit their specific activities. Each contractor must develop a site-specific CHSMP and accompanying procedures that align with DGII policy and provide a clear framework for implementing the requirements outlined in this plan.

Before commencing any project activities, the Contractor is obligated to submit their CHSMP to DGII for approval. No project activities will commence until DGII has granted approval for the management plans and procedures.

Furthermore, it is the Contractor's responsibility to regularly review and update their CHSMP as the project's needs evolve or as more detailed requirements become apparent. This ongoing commitment to refinement ensures that the CHSMP remains effective and responsive to changing circumstances throughout the project's duration.

The responsibilities and roles in the CHSMP are detailed as follows:

DGII Responsibilities:

- Develop and maintain project-specific community health and safety requirements and effectively communicate them to contractors.
- Supervise and control the implementation of the CHSMP and health and safety procedures by contractors through activities such as audits.
- Adhere to the Voluntary Principles on Security and Human Rights.

Contractor Responsibilities:

- Develop, implement, and maintain a project-specific CHSMP that meets or exceeds the minimum requirements and precautions outlined in this CHSMP provided by DGII.
- Ensure that all employees are informed and trained on the CHSMP and health and safety procedures.
- Oversee the performance of all subcontractors to ensure compliance with the CHSMP, the project-specific CHSMP, and associated procedures.
- Generate reports with performance indicators to demonstrate the successful implementation of the CHSMP and share these reports with DGII.
- Establish communication with local authorities for specific project activities, such as crossings and blasting.
- Conduct medical surveillance among its workers and ensure that medical examinations are conducted for workers involved in health-critical activities, such as canteen workers.
- Implement measures for the prevention of Gender-Based Violence (GBV), including conducting awareness sessions for local communities on GBV prevention, establishing a Code of Conduct for workers, providing training to workers on GBV, Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH) prohibition, and implementing a Grievance Mechanism (GM) to address GBV complaints.



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 10

3. LEGAL FRAMEWORK

3.1. National Legislation

The regulations that come into prominence in the fields of environment, health, safety and security managements as well as social issues within the scope of the project activities, especially contained within the Environment Law No. 2872, the Labor Law No. 4857, the OHS Law No. 6331, the Law on Right to Information (No. 4982) and the Public Health Law No. 1593 are summarized below.

Table 2. Prominent Regulations Covered by National Legislation

Regulation	Official Gazette Date	O.G. Number
Regulation on Environmental Impact Assessment	29.07.2022	31907
Regulation on Environmental Permit and License	10.09.2014	29115
Regulation on Environmental Audit	12.06.2021	31509
Regulation Concerning Environmental Management Services	01.11.2022	32000
Regulation on the Passage of All Types of Cables and Similar Equipment Used in Fixed and Mobile Communication Infrastructure or Networks through Immovables	27.12.2012	28510
Regulation on Traffic in Highway	18.07.1997	23053 (Duplicate)
Wastes		
Regulation on Waste Management	02.04.2015	29314
Regulation on Waste Oil Management	21.12.2019	30985
Regulation on the Control of Vegetable Waste Oils	06.06.2015	29378
Regulation on Packaging Waste Control	26.06.2021	31523
Regulation on Landfilling of Wastes	26.03.2010	27533
Regulation on Control of Waste Vegetable Oils	06.06.2015	29378
Regulation on Control of Waste Batteries and Accumulators	31.08.2004	25569
Regulation on Control of End-of-Life Tires	25.11.2006	26357
Regulation on the Control of Waste Electrical and Electronic Equipment	26.12.2022	32055
Regulation on Zero Waste	12.07.2019	30829
Regulation on Control of Medical Wastes	25.01.2017	29959
Regulation on Control of Excavation Soil, Construction and Demolition Wastes	18.03.2004	25406
Air Quality		
Regulation on Industrial Air Pollution Control	03.07.2009	27277
Regulation on Air Quality Assessment and Management	06.06.2008	26898
Regulation on Exhaust Gas Emission Control	11.03.2017	30004
Land Use and Soil		
Regulation on Control of Soil Pollution and Point Source Contaminated Sites	08.06.2010	27605
Regulation on Protection, Use and Planning of Agricultural Lands	09.12.2017	30265
Regulation on the implementation of articles 17 and 18 of the Forest Law No. 6831	30.11.2021	31675
Regulation on Land Consolidation and On-farm Development Services Implementation	07.02.2019	30679
Regulation Concerning the rehabilitation of the Lands Disturbed by Mining Activities	23.01.2010	27471
Regulation on Pastures	31.07.1998	23419
Noise		



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 11

Regulation	Official Gazette Date	O.G. Number
Regulation on Environmental Noise Control	30.11.2022	32029
Regulation on Environmental Noise Emission Caused by Equipment Used Outdoors	30.12.2006	26392
Water Quality and Wastewater		
Regulation on Water Pollution Control	31.12.2004	25687
Regulation on Surface Water Quality	30.11.2012	28483
Regulation on the Quality and Treatment of Drinking Water Supply	06.07.2019	30823
Regulation on Water Intended for Human Consumption	17.02.2005	25730
Regulation on the Protection of Groundwater against Pollution and Deterioration	07.04.2012	28257
Regulation on Control of Pollution Caused by Hazardous Substances in and around Water Bodies.	26.11.2005	26005
Regulation on the Procedures and Principles to be Followed in Determining the Tariffs of Wastewater Infrastructure and Domestic Solid Waste Disposal Facilities	27.10.2010	27742
Regulation on Identification of Sensitive Water Bodies and the Areas affecting this Water Bodies	23.12.2016	29927
Regulation on Monitoring of Surface Waters and Groundwater	11.02.2014	28910
Regulation on Protection of Drinking and Utility Water Basins	28.10.2017	30224
Community and Occupational Health, Safety and Security		
Regulation on Occupational Health and Safety Risk Assessment	29.12.2012	28512
Regulation on Emergencies at Workplaces	18.06.2013	28681
Regulation on Occupational Health and Safety Services	29.12.2012	28512
Regulation on Occupational Health and Safety of Construction Works	05.10.2013	28786
Regulation on Health and Safety Conditions in the Use of Work Equipment	25.04.2013	28628
Regulation on Health and Safety Signs	11.09.2013	28762
Regulation on Occupational Hygiene Measurement, Test and Analysis	27.01.2023	32086
Regulation on Vocational Training of the Employees Working in Hazardous and Highly Hazardous Workplaces	13.07.2013	28706
Regulation on the Procedures and Principles of Occupational Health and Safety Training of Employees	15.05.2013	28648
Regulation on Duties, Authorities, Responsibilities and Trainings of Occupational Physicians and Other Health Personnel	20.07.2013	28713
Regulation on the Procedures and Principles of Employing Child and Young Workers	06.04.2004	25425
First Aid Regulation	29.07.2015	29429
Regulation Concerning the Protection of Workers from Risks Associated with Noise	28.07.2013	28721
Regulation Concerning the Protection of Workers from Risks Associated with Vibration	22.08.2013	28743
Regulation on Health and Safety Regarding Temporary and Time Limited Works	23.08.2013	28744
Regulation on Personal Protection Equipment	01.05.2019	30761
Regulation on Usage of Personal Protective Equipment in Workplaces	02.07.2013	28695
Regulation on Health and Safety Precautions Regarding Working with Chemicals	12.08.2013	28733
Regulation on Dust Control	05.11.2013	28812
Management of Chemicals		
Regulation on Prevention of Major Industrial Accidents and Lessening Their Adverse Impacts	02.03.2019	30702
Regulation on Classification, Labelling and Package of Materials and Mixtures	11.12.2013	28848
Regulation on Safety Information Forms on Hazardous Substances and Mixtures	13.12.2014	29204



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 12

Regulation	Official Gazette Date	O.G. Number
Regulation Regarding Transport of Hazardous Materials on Highways	18.06.2022	31870
Biodiversity		
Regulation on the Protection of Wetlands	04.04.2014	28962
Regulation on Wildlife Preservation and Wildlife Development Areas	08.11.2004	25637
Climate Change		
Regulation on Minimization of Ozone Depleting Substances	07.04.2017	30031
Regulation on Monitoring of Greenhouse Gas Emissions	17.05.2014	29003
Social		
Regulation on Implementation of Resettlement Law	02.12.2007	26718
Regulation on the Implementation of Law Concerning Private Security Services	07.10.2004	25606



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 13

3.2. International Standards

As the World Bank (WB) is the lending institution for the project, it should be in line with National Legislation as well as international standards and good industrial practices.

WB has established Environmental and Social Standards (ESSs) to define its clients' responsibilities for managing their environmental and social risks. During the investment period, the borrower is required to comply with these standards. The international standards and guidelines applicable to this CHSMP are listed below:

- WB ESS4: Community Health and Safety (2018)
- WBG General EHS Guidelines, Community Health and Safety
- WBG EHS Guidelines for Railways
- UN Guiding Principles on Business and Human Rights
- Recommendation of the Council on Common Approaches for Officially Supported Export Credits and Environmental and Social Due Diligence (The "Common Approaches") (2016)
- International Labor Organization (ILO) Conventions¹
- Equator Principles IV (2020)

¹ Türkiye is party to 48 of the 177 Technical ILO Conventions, 3 of the 4 priorities, and all 8 major conventions (Convention No. 87 on Freedom of Association and Protection of the Right to Organise, Convention No. 98 on the Right to Organize and Collective Bargaining, Convention No. 29 Forced Labour, Convention No. 105 Abolition of Forced Labour, Convention No. 138 on Minimum Age, Urgent Action Convention No. 182 on Worst Forms of Child Labour, Convention No. 100 on Equal Remuneration, Convention No. 111 on Discrimination (Employment and Occupation)).

COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 14

4. MITIGATION MEASURES AND MANAGEMENT CONTROLS

4.1. General Requirements

The following mitigation measures represent the minimum requirements to be adhered to during the land preparation and construction phase of the project:

- **Training Needs Assessment:** Contractors will identify training needs and develop training plans for project staff and, if necessary, local residents (see Employment and Training Plan).
- **Security Personnel:** Security personnel will be employed to ensure the safety of work areas, and a Project-specific Security Management Plan will be created and implemented by the Contractor.
- **Health Screening:** Workers will undergo health screenings after signing employment contracts, and periodic health checks will be conducted.
- **Random Drug and Alcohol Testing:** Workers will be subjected to random drug and alcohol tests, with results recorded and monitored.
- **Health Awareness Training:** Workers will receive regular health awareness training throughout their employment.
- **Emergency Facilities:** Campsites will have facilities for emergency interventions and routine health procedures.
- **Waste Management:** All waste will be segregated, recyclable materials will be given to licensed recycling companies, and non-recyclable waste will be transported and disposed of in compliance with legislation.
- **Medical Waste Disposal:** Medical wastes will be disposed of in accordance with the Regulation on Control of Medical Wastes.
- **Food Safety:** Food companies will adhere to national legislation and international standards for storing, preparing, and serving food, with regular inspections and reporting of non-conformities.
- **Disease Prevention:** Measures will be implemented to prevent diseases that can be transmitted from animals to humans.
- **Safe Passages:** Passages on slopes and ditches will be made safe, recognizable, fenced, and illuminated.
- **Local Community Training:** Training will be provided to local residents to raise awareness of potential risks arising from project activities, such as increased traffic and construction areas.
- **Traffic Awareness:** Under the Traffic (Transportation) Management Plan, training will be organized to raise traffic awareness among adults and children in surrounding settlements.
- **Night Transportation Limitations:** Night transportation activities on public roads will be limited to reduce traffic accidents.
- **Driver Training:** All drivers will adhere to Project driving rules, with necessary training provided.
- **Emissions Reduction:** All pollutant emissions will conform to national legislation and international standards, with a focus on minimizing dust emissions, especially on unpaved roads.
- **Stakeholder Engagement:** Local authorities and residents will be informed about project-related impacts on human health and safety during pre-construction meetings and stakeholder engagement activities. Opinions from all parties will be sought.
- **Grievance Mechanism:** A "Grievance Mechanism" will be established to officially convey concerns, problems, and complaints from local residents and facilitate dispute resolution.

COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 15

- **Accident Compensation:** Damages resulting from accidents caused by project activities will be determined in accordance with the Complaint Management Policy prepared by the Contractor.
- **GBV/SEA/SH Prevention:** Prevention measures for Gender-Based Violence (GBV), Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH) will include awareness sessions for local communities, adherence to a Code of Conduct by workers, informing local communities about the Code of Conduct, implementing a Grievance Mechanism (GM) for GBV complaints, and providing information about existing GBV service providers.

4.2. Site Specific Requirements

The following issues will need to be addressed at site specifically after the finalization of further studies as also mentioned below:

4.2.1. Road Accident Risks

Given the anticipation of heavy traffic in critical areas surrounding the entire work area, particularly around specific project components like camp sites, excavation and filling areas, and material stockpiles, additional mitigation measures will be implemented to enhance road safety.

These measures include:

- **Traffic Management Systems:** The installation of traffic lights, deceleration systems, and warning signals at roads and junctions that will experience heavy construction traffic. These systems will help regulate and control traffic flow, reducing the risk of accidents.
- **Engagement with Local Authorities:** Contractors will engage with local authorities to discuss and provide information about available solutions for improving road safety in these regions. Collaboration with local authorities is essential to ensure the implementation of effective measures.
- **Driver Training:** Drivers involved in the project will receive comprehensive training. This training will include specific information about critical areas prone to road accidents. Initial training sessions will be followed by routine training to reinforce safety awareness among all drivers.

By implementing these additional mitigation measures and ensuring that both drivers and local authorities are informed and engaged, the project aims to minimize road accident risks in areas with heavy construction traffic, thereby enhancing overall safety.

4.2.2. Trespassing Accidents

To prevent accidents stemming from the presence of construction sites and ongoing construction activities, the Contractor will take the following measures:

- **Identification of Residential Areas:** The Contractor will identify all residential areas in close proximity to the Project area. This assessment will help pinpoint locations where there is a higher risk of trespassing and potential accidents.
- **Fencing and Warning Signs:** In areas identified as having a higher risk of trespassing and accidental events, the Contractor will install additional fencing and warning signs. These physical barriers and visual cues will serve as deterrents and reminders to individuals to stay out of hazardous construction zones.
- **Stakeholder Engagement:** The local population will be actively engaged through stakeholder engagement activities. This engagement will include informing them about ongoing construction activities, potential risks, and the importance of avoiding restricted



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 16

areas. Effective communication with the local community helps raise awareness and promotes safety.

By implementing these measures, the Contractor aims to reduce the risks associated with trespassing accidents and enhance the safety of both construction workers and the local community in the vicinity of the Project area.

4.2.3. Communicable Diseases

To address public health concerns and mitigate the transmission of communicable diseases due to the presence of workers, the Contractor will undertake the following steps:

- Collaboration with Local Health Authorities: The Contractor will collaborate closely with local health authorities to develop and implement appropriate strategies and plans to prevent the transmission of communicable diseases. This partnership will ensure that the response aligns with local public health priorities and guidelines.
- Preventive Measures: Based on the findings of the epidemiological studies and in consultation with local health authorities, the Contractor will implement a range of preventive measures. These may include:
 - ◆ Health education and awareness programs.
 - ◆ Implementation of hygiene and sanitation protocols at work sites and worker accommodations.
 - ◆ Regular health screenings and medical examinations for workers.
 - ◆ Monitoring and reporting of any suspected cases of communicable diseases.

4.2.4. Safety and Disturbance to Schools in Surroundings of Construction Activities

To mitigate safety hazards and minimize disruption to schools in the vicinity of construction activities, the Contractor will undertake the following steps:

- Identification of School Facilities: The ESIA has identified all institutions and facilities within the AoI of the project. The Contractor is required to review and become fully familiar with these requirements.
- Collaboration with Local Authorities: The Contractor will engage in discussions and collaboration with local authorities, including school administrations and relevant education departments. The goal is to agree upon and implement strategies that achieve two primary objectives:
 - ◆ Reduce Disturbance to Schooling Activities: The Contractor will work with local authorities to develop plans that minimize disruption to schooling activities. This may involve scheduling construction activities during non-school hours, altering construction methods to minimize noise and disturbance, or rerouting traffic to ensure student safety during arrival and departure times.
 - ◆ Enhance Safety for Students: Safety measures will be put in place to protect students. This may include the installation of physical barriers, warning signs, and designated safe zones to prevent accidents and injuries.

By working collaboratively with local authorities and school administrations, the Contractor aims to ensure that construction activities are carried out in a manner that prioritizes the safety and educational experience of students in the surrounding areas.

4.2.5. General Railway Operational Security

This management plan was primarily developed for the construction phase; however, it also includes general requirements for railway security to provide a framework for the site-specific CHSMP to be created by Turkish State Railways (TCDD). Here are the key railway security requirements outlined in the plan:



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 17

- **Positive Train Control (PTC) System:** Implement railway operational safety procedures, including the use of a PTC system. The PTC system is aimed at reducing the likelihood of train collisions. This advanced system helps enhance railway safety by monitoring train movements, enforcing speed limits, and taking corrective actions if necessary.
- **Automatic Rail Trusses:** In cases where the full PTC system may not be practical or available, consider the use of automatic rail trusses. These trusses are particularly relevant in areas where manual trusses are present. They enable reporting when a train transitions from the main line to a side road in the absence of signaling. This information should be communicated to all employees and train officers on board the train to ensure safe operations.
- **Regular Inspection and Maintenance:** Prioritize regular inspection and maintenance of railway lines and facilities to ensure that they meet national and international railway safety standards. These inspections and maintenance activities are essential to uphold the safety and integrity of the railway infrastructure.
- **General Safety Management Program:** Implement a comprehensive safety management program that is equivalent to internationally recognized railway safety programs. This program should encompass various aspects of railway safety, including but not limited to, track maintenance, signal systems, communication protocols, and emergency response procedures. Adhering to internationally recognized safety standards will help ensure the overall safety of railway operations.

By including these railway security requirements within the management plan, TCDD demonstrates its commitment to maintaining a high level of safety and security in railway operations, ultimately protecting both railway personnel and the general public.

4.2.6. Level Crossing Security

To maintain the security and safety of level crossings, regular inspection and maintenance of automatic doors are essential. Here are the key steps to ensure the proper installation and smooth operation of automatic doors at all level crossings:

- **Scheduled Inspections:** Develop a schedule for routine inspections of automatic doors at all level crossings. These inspections should be carried out at specified intervals to ensure that the doors are functioning correctly.
- **Qualified Personnel:** Assign qualified and trained personnel or technicians to conduct these inspections. They should possess the necessary expertise to identify and address any issues related to the automatic doors.
- **Functional Testing:** During inspections, perform comprehensive functional testing of the automatic doors. This includes assessing their responsiveness to various scenarios, such as detecting approaching trains, responding to emergency stop signals, and ensuring timely closure and reopening.
- **Visual Inspections:** Conduct visual inspections to detect any signs of wear and tear, damage, or malfunctions in the automatic doors. Look for issues such as misalignment, damaged sensors, broken components, or corrosion.
- **Cleaning and Lubrication:** As part of regular maintenance, clean and lubricate the moving parts of the automatic doors as needed. Proper maintenance can prevent issues related to friction, rust, and other factors that could impede their smooth operation.
- **Repairs and Replacements:** If any issues or defects are identified during inspections, address them promptly with repairs or replacements as necessary. Defective components should be replaced with high-quality and compatible parts.

The security and safety of level crossings, the reduction of the risk of accidents, and the assurance of the smooth operation of railway traffic while safeguarding road users can be maintained by following the measures mentioned.

4.2.7. Pedestrian Safety



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 18

To enhance pedestrian safety around railway areas, including stations and level crossings, several measures will be implemented:

- Clear Warning Signs: Prominently place clear and distinctive warning signs at entry points, including railway stations and level crossings. These signs will alert pedestrians to the potential dangers of railway areas and remind them to exercise caution.
- Installation of Barriers: Install fences or other barriers at the ends of railway stations and in other critical areas to prevent unauthorized access to the tracks. These physical barriers will help deter individuals from venturing onto the rails.
- Pedestrian Training: Conduct training sessions, especially for local youth, emphasizing the importance of not entering railway areas without permission. These educational programs will raise awareness about the risks associated with railway tracks.
- Safe Routes: Ensure that designated routes for pedestrians are clearly marked, well-lit, and easily accessible. These safe routes will guide pedestrians away from hazardous areas and provide a secure path for their movement.
- Closed-Circuit Security Cameras (CCTV): Establish CCTV and monitoring systems at railway stations and other high-risk locations. These systems will allow continuous surveillance of railway areas, helping to deter intruders and identify any unauthorized access.
- Emergency Announcement Systems: Implement an emergency announcement system to prevent violations and unauthorized access in areas where intruders are frequent. This system will broadcast warnings and safety messages to discourage unsafe behavior.

By implementing these measures, railway authorities aim to enhance pedestrian safety and reduce the risks associated with unauthorized access to railway tracks. These initiatives will not only protect pedestrians but also contribute to the overall safety and security of railway operations.

COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 19

5. TRAINING, REPORTING AND MONITORING

5.1. Training

All employees (including contractor and subcontractor staff) will be provided with basic training on social, environmental, occupational health and safety, labor and security issues. The status of the project area will be checked daily by the Environmental and Social Teams, and in case a potential training need is determined, a new training program will be created and training will be provided to the staff. All employees will be informed about the requirements of this management plan. During the construction and operation periods, the trainings will initially be given before starting work and will be repeated at specified intervals.

These trainings will be repeated for newly recruited workers.

5.2. Reporting and Monitoring

Daily inspections will be carried out under the coordination of the environmental and social team created by the Contractor.

Regular monitoring and audit activities will be carried out in order to ensure the effectiveness of the implementation of this Community Health and Safety Management Plan. Monitoring activities are presented in Table 3.

Table 3. Monitoring Activities

ID	Topic	Method	Frequency
CHSMP-1	Community health and safety training records	Training records	Twice a year
CHSMP-2	Community health and safety grievance records	Complaint records	Continuously
CHSMP-3	Information gathered through public consultation related to community health and safety issues	Consultation records	Before construction and continuously
CHSMP-4	Traffic training records	Training records	Twice a year
CHSMP-5	Traffic related grievance records	Complaint records	Continuously
CHSMP-6	Information gathered through public consultation related to traffic issues	Consultation records	Before construction and continuously

Any incident detected during these inspections will be recorded and reported monthly. The World Bank and DGII will be promptly notified of any incident or accident related to the Project which has, or is likely to have, a significant adverse effect on the environment, the affected communities, the public or workers including but not limited to; incidents and accidents encountered during construction works, environmental spills, etc.

Sufficient detail will be provided regarding the incident or accident, findings of the Root Cause Analysis (RCA), indicating immediate measures or corrective actions taken or that are planned to be taken to address it, compensation paid, and any information provided by any contractor and supervision consultant, as appropriate. It will be ensured that the incident report is in line with the World Bank's Environment and Social Incidence Response Toolkit (ESIRT). Subsequently, as per the Bank's request, a report on the incident or accident and propose any measures to prevent its recurrence will be prepared. All events and nonconformities will be reported according to the project standards as described in the ESMP.



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 20

The primary monitoring activities outlined in the ESMP will focus on ensuring compliance with the mitigation measures and management controls detailed in this CHSMP, using the key performance indicators defined in Chapter 1.

Monitoring activities for each Community Health and Safety issue will be detailed in management/implementation plans and procedures to be prepared by the Contractor prior to the onset of the land preparation and construction phase of the Project. Monitoring activities will be designed to target specific topics to meet site-specific requirements in line with the Monitoring Plan framework provided in the ESMP and considering the key performance indicators.



COMMUNITY HEALTH AND SAFETY MANAGEMENT PLAN		CNR-ZNG-CHSMP-002
Final	Date: 25.12.2025	Page 21

6. REFERENCES

- Community Relations Plan (CNR-ZNG-CRP-002)
- Employment and Training Plan (CNR-ZNG-ETP-002)
- Traffic (Transportation) Management Plan (CNR-ZNG-TTMP-002)
- Pollution Prevention Plan (CNR-ZNG-PPP-002)
- Waste Management Plan (CNR-ZNG-WMP-002)
- Emergency Preparedness and Response Plan (CNR-ZNG-EPRP-002)
- Legal and Institutional Framework (CNR-ZNG-ESIA-002, Chapter 2)