

REPUBLIC OF TÜRKİYE MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE GENERAL DIRECTORATE OF CONSTRUCTION AFFAIRS

SEISMIC RESILIENCE & ENERGY EFFICIENCY IN PUBLIC BUILDINGS PROJECT (SREEPB PROJECT)

TUNCELİ GOVERNMENT HOUSE TUNCELİ PROVINCIAL DIRECTORATE OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE TUNCELİ PROVINCIAL DIRECTORATE OF CULTURE AND TOURISM (CULTURAL CENTER)

OCCUPATIONAL HEALTH AND SAFETY PLAN

NOVEMBER 2025

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1. Terms & Abbreviations

ADME(ERT) Emergency Response Team

Alt Yüklenici The company assigned by the Contractor to perform a part of the project.

MoEUCC Ministry of Environment, Urbanization and Climate Change

A set of activities carried out to eliminate the cause of a detected nonconformity

and other undesirable situations. (Corrective actions must be documented

Corrective Action including the detection date, the person who detected it, responsible

departments/persons, description of the nonconformity and root cause, corrective

action proposals, deadline, and the date and method of elimination of the

nonconformity.)

LOTO Lockout-Tagout

HSS Occupational Health and Safety Specialist

OHSP Occupational Health and Safety Plan

PPE Personal Protective Equipment

When identifying/evaluating an event, problem, or undesirable result, going

Root Cause beyond immediate causes to determine the main reasons/factors that, when Analysis addressed, prevent recurrence of similar events or problems in the future.

(Corrective actions must focus on eliminating or correcting these main causes.)

Major Large, very important

Material Safety Data Sheet (*)

MSDS (*) The name of "Material Safety Data Sheet" has been changed to "Safety Data

Sheet" (SDS) in Turkish legislation. (See Regulation on the Registration,

Evaluation, Authorization, and Restriction of Chemicals published in the Official

Gazette dated 23/6/2017 and numbered 30105 repeated.)

Consultant TİMA –OBS Joint Venture

PAT Portable Appliance Test

Contractor

Beneficiaries

Tunceli Government House, Tunceli Cultural Center, Tunceli Provincial

Directorate of Environment, Urbanization and Climate Change

The company responsible for carrying out all renovation activities focused on

structural strengthening and energy efficiency, following the tender conducted

by the Ministry of Environment, Urbanization and Climate Change.

2. Purpose

The WB/CS-DESSUP 05 Structural Feasibility, Energy Audit, Structural-Energy Retrofitting, Design and Construction Supervision Consultancy Services contract covers the <u>STRUCTURAL STRENGTHENING and RENOVATION</u> process.

The objectives are:

- Obtaining the completion declarations of high-RİSK activities from External Agencies before the start of the construction phase.
- Identifying hazards and risks related to construction activities and determining the necessary safety precautions.
- Defining minimum requirements for the personnel involved in the construction process and preventing those who do not meet these requirements from participating.

Accordingly, this document defines:

- The construction methods and risk analysis for the structural strengthening and renovation process,
- Personnel qualification schedules,
- Control/inspection methods before, during, and after field operations,
- Record forms and methods,
- Additional safety measures to be taken by the beneficiary institutions,
- Completion of necessary operations in accordance with the legislation by External Supplier Institutions (Natural Gas Distribution Company, Electrical Distribution Company, Local Municipal Infrastructure and Technical Affairs Directorates) before field delivery.

This Occupational Health and Safety Report prepared by the Consultant shall officially notify the Contractor that they must prepare their own HSE plan, risk Assessments, and Construction Methods for project-based operations, referencing the Consultant's prepared OHSP.

3. Scope

The WB/CS-DESSUP 05 project covers the Occupational Health and Safety Plan for the Structural Strengthening and Renovation Works of 3 buildings within the Tunceli Administration buildings. The total construction area covers 19,501 square meters, comprising the Tunceli Government House (five blocks, 12,130 m²), the Tunceli Cultural Center (one block, 5,390 m²), and the Tunceli Provincial Directorate of Environment, Urbanization and Climate Change (one block, 1,976 m²). Satellite images and the list of buildings are provided under the title "Buildings Included in the Project."

The works within the scope of this project are limited to the activities listed below:

- Strengthening the structural elements of the buildings,
- Renovations of façades and façade components, mechanical and electrical systems within the scope of energy efficiency,
- Installation of sustainable clean energy production systems (Parking Area Solar Energy System).

4. Legal Regulations

This OHSP has been prepared primarily in accordance with the Occupational Health and Safety laws and regulations in Türkiye, and additionally in compliance with the World Bank Environmental and Social Standards, especially ESS2: Labor and Working Conditions, and ESS4: Community Health and Safety. The list of relevant legal regulations is provided below.

Table 1 - List of Relevant Legal Regulations (Laws)

	<u>NO</u>	ACCEPTANCE DATE	OFFICIAL GAZETTE NUMBER & DATE
Labor Law	4857	22.05.2003	RG: 10.06.2003/25134
Labor Courts Law	7036	12.10.2017	RG: 25.10.2017/30221
Occupational Health and Safety Law	6331	20.06.2012	RG: 30.06.2012/28726
Misdemeanors Law	5326	30.03.2005	RG: 31.03.2005/25772 M.
Vocational Education Law	3308	05.06.1986	RG: 19.06.1986/19139
Law on Certain Arrangements Regarding the Vocational Qualification Authority	5544	21.09.2006	RG: 07.10.2006/26312
Social Insurance and General Health Insurance Law	5510	31.05.2006	RG: 16.06.2006/26200
Law on Preparation and Implementation of Technical Legislation Related to Products	4703	29.06.2001	RG: 11.07.2001/24459
European Convention on Human Rights (Universal Declaration of Human Rights)	207 A(III)	10.12.1948	RG: 27.05.1949/7217

Table 2 - List of Relevant Legal Regulations

	OFFICIAL GAZETTE NUMBER & DATE
	RG: 27.09.2008/27010
Subcontracting Regulation	Değ. 25.08.2017/30165
Regulation on Protection of Employees from risks Related to Noise	RG: 28.07.2013/28721
Regulation on Procedures and Principles of Occupational Health and Safety Training	RG: 15.05.2013/28648
of Employees	Değ. 24.05.2018/30430
Regulation on Procedures and Principles for Medical Examinations for Health Surveillance of Employees	RG: 20.01.2022/31725
Regulation on Manual Handling Works	RG: 24.07.2013/28717
Regulation on Preparation, Completion, and Cleaning Works	RG: 28.04.2004/25466
Regulation on Hygiene Education	RG: 05.07.2013/28698
First Aid Regulation	RG: 29.07.2015/29429
D	RG: 25.04.2013/28628
Regulation on Health and Safety Conditions in the Use of Work Equipment	Değ. 18.02.2022/31754
Regulation on Duties, Authorities, Responsibilities, and Trainings of Occupational	RG: 29.12.2012/28512
Safety Specialists	Değ. 06.07.2021/31533

	OFFICIAL GAZETTE NUMBER & DATE
Regulation on Working Hours Related to the Labor Law	RG: 06.04.2004/25425
Regulation on Working Hours Related to the Labor Law	Değ. 25.08.2017/30165
Regulation on Overtime and Excess Work Related to the Labor Law	RG: 06.04.2004/25425
Regulation on Overtime and Excess Work Related to the Labor Law	Değ. 25.08.2017/30165
Regulation on Occupational Health and Safety Services	RG: 29.12.2012/28512
Regulation on Occupational Health and Safety Services	Değ. 04.02.2024/32450
Regulation on Occupational Health and Safety Committees	RG:18.01.2013/28532
Regulation on risk Assessment for Occupational Health and Safety	RG: 29.12.2012/28512
Regulation on the Duties, Authorities, Responsibilities, and Training of Workplace	RG: 20.07.2013/28713
Physicians and Other Health Personnel	Değ. 06.07.2021/31533
Regulation on Emergency Situations in Workplaces	RG: 18.06.2013/28681
Regulation on Emergency Situations in Workplaces	Değ. 01.10.2021/31615
Regulation on Stopping Work in Workplaces	RG: 30.03.2013/28603
Regulation on Stopping work in workplaces	Değ. 11.02.2016/29621
Regulation on Health and Safety Measures for Working with Chemical Substances -	RG:12.08.2013/28733
Regulation on Health and Salety Measures for Working with Chemical Substances -	Değ. 10.10.2023/32345
Regulation on the Registration, Evaluation, Authorization, and Restriction of	RG:23.06.2017/30105M
Chemicals	Değ. 23.12.2023/32408
Regulation on Personal Protective Equipment	RG: 01.05.2019/30761
Regulation on the Use of Personal Protective Equipment in Workplaces	RG: 02.07.2013/28695
Machinery Sefety Decorlation (2006/42/EC)	RG: 03.03.2009/27158
Machinery Safety Regulation (2006/42/EC)	Değ. 28.09.2014/29133
Regulation on Measurement, Evaluation, and Certification of the Vocational Qualification Authority	RG: 15.10.2015/29503
Regulation on Health and Safety Signs	RG: 11.09.2013/28762
Regulation on Vocational Training for Employees Working in Hazardous and Very	RG: 13.07.2013/28706
Hazardous Classes	Değ. 11.05.2017/30063
Regulation on Combatting Dust	RG: 05.11.2013/28812
Decidetion on Commetional Health and Sofety in Construction William	RG: 05.10.2013/28786
Regulation on Occupational Health and Safety in Construction Works	Değ. 31.12.2018/30642.4.M

5. Management Commitments & OHS Objectives

5.1. Management Commitments

As the Project Manager of the TİMA–OBS Joint Venture; throughout the preparation and implementation phases of the Seismic Strengthening and Energy Efficiency of Public Buildings Project, until the completion of the project, it is committed that the health and safety of employees and other stakeholders will be prioritized, all applicable legislative provisions and other defined requirements will be fully complied with, all occupational health and safety measures will be taken timely, priority will be given to collective protection measures when determining and implementing precautions, importance will be attached to the training and informing of employees on occupational health and safety, necessary and sufficient resources will be provided for occupational health and safety, required expenditures will not be avoided, employees' suggestions and opinions regarding occupational health and safety will be considered, necessary participation, exchange of ideas, and cooperation between management and employees will be ensured in the field of occupational health and safety, this plan has been prepared specifically for this construction site, its workers and stakeholders, will be implemented throughout the project, will be updated as necessary, and all employees and visitors, including the top management, will be adequately informed about their responsibilities under this plan.

Date : 05.11.2025

Name&Surname: Dr. Bahadır ŞADAN

Signature :

5.2. Policy

By complying with national and international legislation and providing a healthy and safe working environment;

- We will ensure that all our stakeholders embrace and continuously develop an occupational health and safety consciousness,
- We will ensure that all necessary measures are taken in accordance with occupational health and safety regulations,
- We will work to prevent occupational accidents by conducting effective risk assessments,
- We will educate our employees beyond the legislative requirements regarding occupational health and safety,
- We will respect and support our employees' rights to collective bargaining and unionization,
- We will take as reference the Universal Declaration of Human Rights, International Labour Organization (ILO) conventions, United Nations Global Compact, United Nations Sustainable Development Goals, and OECD Guidelines for Multinational Enterprises,
- We will ensure that all levels of visitors, suppliers, and subcontractor employees comply with occupational health and safety rules,
- We will provide a healthy environment where employees feel comfortable, safe, and happy to work, take mental health problems seriously, and support all personnel encountering such problems.

Date : 05.11.2025

Name & Surname: Dr. Bahadır ŞADAN

Signature :

5.2.1. Basic Strategies Related to OHSP

- Leadership of the management staff,
- Ensuring the involvement and contribution of all employees by obtaining their opinions and suggestions regarding OHS requirements and problem solving,
- Identifying hazards before an occupational accident occurs and planning and implementing sufficient control measures in advance,
- Ensuring that all employees develop adequate awareness and motivation regarding Occupational Health and Safety.

5.3. Objectives

In order to measure the project's OHS performance at regular intervals, "performance indicators" in accordance with the Project Contract and corresponding measurable "objectives" to be monitored monthly have been determined.

An OHS Monthly Activity Report for the previous month shall be prepared in the format deemed appropriate by the Consultant and submitted to the Employer within the first week of each month.

OBJECTIVE DESCRIPTION QUANTITIVE VALUE Number of Lost Time Injury (maximum) 0 Number of Non-Lost Time Injury (maximum) 2 Number of Near Miss Incidents (maximum) Accident Frequency Rate (AFR) (maximum) 60 0 Accident Severity Rate (ASR) (maximum) 20 Person. Hours OHS trainings specific to this project 1 Unit Fire drill specific to this project Earthquake and First Aid drill specific to this project 1 Unit

Table 3 - Objectives Table

The performance indicators will be monitored cumulatively throughout the project duration. The data obtained compared to planned targets will be analyzed monthly, deviations will be identified, and corrective actions will be initiated as necessary.

The data and results regarding the objectives shall be submitted to the Consultant along with the OHS Monthly Activity Report within the first week of each month.

Questions to be answered within the scope of performance measurement:

- Are we achieving our Occupational Health and Safety (OHS) objectives?
- Are we working in compliance with OHS legislation?
- Are the control measures planned as a result of the risk assessment effective in reducing risks?
- Are accidents and near-misses recorded? Are accident investigations and root cause analyses conducted to prevent recurrence?
- Are corrective actions planned and implemented for the nonconformities/violations identified on site (by Contractor or Consultant)?
- Are the implemented corrective actions effective?
- When necessary, are the required revisions made to the OHSP?
- Are the trainings provided effective in raising OHS awareness and motivation among employees?

In order to monitor the Contractor's OHS performance, the Contractor must submit the following records to the Consultant on a monthly basis:

- 1. Reports of accidents and near-miss incidents,
- 2. Records regarding legally mandatory trainings (training records, certificates, etc.),
- 3. Periodic inspection reports of machinery/equipment,
- 4. Status (open/closed, corrective action description, etc.) of OHS-related nonconformities recorded by the Contractor or Consultant.

6. Project Information

6.1. General Information

Information regarding the Consultant firm is provided in the table below.

Table 4 - Consultant Information Table

CONSULTANT	TİMA-OBS JOINT VENTURE
SOCIAL SECURITY REGISTRATION NO	271120202003584600607-24/000
ADRESS	Eğitim Mah. Ahsen Çıkmazı Sk. Tunçludemir Plaza No:6 İç Kapı:5 Kadıköy/İSTANBUL
TELEPHONE / E-MAIL	0(216) 347 13 95 (Pbx) / info@timaengineering.com
OCCUPATIONAL SAFETY SPECIALIST	Sevgideğer Bezginoglu İGU-98457
WORKPLACE PHISICIAN	Dr. Remzi Yıldız İH-291113

6.1.1 Building Included in The Project

Table 5 - Building List for Tunceli Government House Blocks

No	Building Name	Province	Const. Year	Const. Area (m²)
1	Block 1 – Courthouse	Tunceli	1992	3495
2	Blocks 2–3 – Government House	Tunceli	1992	5650
3	Blok 4-5 Governor's Office Building	Tunceli	1992	2985
	TOTAL:			12.130

Table 6 - Building List For Tunceli Provincial Directorate of Environment, Urbanization and Climate Change

No	Building Name	Province	Const. Year	Const. Area (m²)
1	Tunceli Provincial Directorate of Environment, Urbanization and Climate Change	Tunceli	1982	1.976
	TOTAL:			1.976

Table 7 - Building List For Tunceli Cultural Center

No	Building Name	Province	Const. Year	Const. Area (m²)
1	Tunceli Cuntural Center	Tunceli	207	5.395
	TOTAL:			5.395



Figure 1 - Tunceli Government House Satellite View



Figure 2 - Tunceli Provincial Directorate of Environment, Urbanization and Climate Change Satellite View

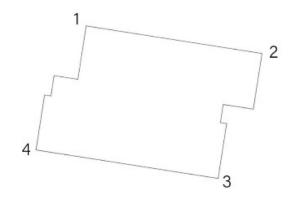


Figure 3 - Tunceli Cultural Center Satellite View



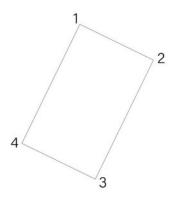
Nokta No	(UTM)Universal Trans Y	ITRF96 (Internationa X	Coğrafi Y2	World Geodetic System X2
	546240.59	4327055.74	39.53	39.0
2	546257.60	4327083.21	39.53	39.0
3	546323.92	4327046.73	39.54	39.0
1	546278.80	4326963.67	39.53	39.0
5	546243.68	4326979.99	39.53	39.0
5	546276.20	4327035.56	39.53	39.0

Figure 4 - Tunceli Government House Coordinate Data



c oys	World Geodetic X2	rafi Y2	X X	(UTM)Universal Trans Y	Nokta No
39.1 39.1 39.1		39.54 39.54 39.54 39.54	4329079.11 4329075.97 4329060.57 4329064.13	547316.60 547340.87 547335.40 547330.18	
		39.54	4329075.97	547340.87	

Figure 5 - Tunceli Provincial Directorate of Environment, Urbanization and Climate Change Coordinate Data



Nokta No	(UTM)Universal Trans Y	ITRF96 (Internationa X	Coğrafi Y2	World Geodetic Syste X2
	545915.24	4324951.64	39.53	
	545938.60		39.53	
	545967.44		39.53	
	545943.71	4324938.04	39.53	39.0

Figure 6 - Tunceli Cultural Center Coordinate Data

Table 8 - General Information Table of Tunceli Government House

BUILDING NAME	Tunceli Government House				
NUILDING OWNER	Tunceli Governorate				
ADRESS	Atatürk Mah. 15 Temmuz Şehitler Bul. No:71/1 Merkez/TUNCELİ.				
PROVINCE	Tunceli			POSTAL CODE	62000
CONST. YEAR	1992			CONST. AREA	12.130 m ²
INTENDED USE	Administration		NUMBER OF BLOCKS IN BUILDING GROUP	5	
USABLE INDOOR AREA	~12.130 m ²		TOTAL ENCLOSED VOLUME		
NUMBER OF USERS	Personnel: 417 (205 women, 212 men), Visitor 86.612 (41.367 women, 45.245 men).			1).	
TECHNICAL	N	JAME & JURNAMEE		aya (İdari Sorumlu)	
RESPONSIBLE	CONTACT	PHONE	0533 62	1 02 52	
	INFO	E-MAIL			
PLANNED CONSTRUC	CTION ACTIVITI	ES IN THE BU	ILDING		
All planned works in the	buildings are listed	d in Table 11-12	2.		
DUDATION & SEASO	N OF ACTIVITIES				

DURATION & SEASON OF ACTIVITIES

<u>Upon completion of the bidding documentation, the Contractor is anticipated to finalize the construction works for the Government House within 12 months following the site handover.</u> Given the current uncertainty regarding the exact commencement date, the construction season has not yet been definitively determined. Nevertheless, the works are expected to be completed subsequent to the tender process scheduled for 2025.

NUMBER OF WORKERS EXPECTED DURING RENOVATION WORKS

To complete the planned works within the targeted timeframe, an estimated employment of 25 workers/day is foreseen.

Courthouse;

Building Height: ~ 12,20 m Number Of Floors: B+Z+2N Kat

Government House: Building Height: 15.3 m

Number Of Floors: B+Alt Z+Üst Z+3N Kat

Governorate Office: Building Height: 14.4 m

Number Of Floors: B+Ara Z+Z+2N Kat

Table 9 - General Information Table of Tunceli Provincial Directorate of Environment, Urbanization and Climate Change

BUILDING NAME	Tunceli Provincial Directorate of Environment, Urbanization and Climate Change				
NUILDING OWNER	Tunceli Provincial Directorate of Environment, Urbanization and Climate Change				
ADRESS	Ali Baba Mh. Fevzi Çakmak Cad. Merkez Tunceli				
PROVINCE	Tunceli	POSTAL CODE	62000		
CONST. YEAR	1982	1982 CONST. AREA 1.976 m ²			

INTENDED USE	Administration		NUMBER OF BLOCKS IN BUILDING GROUP	1	
USABLE INDOOR AREA	\sim 1.976 m ²		TOTAL ENCLOSED VOLUME	6.536 m ³	
NUMBER OF USERS	Personnel: -				
	Visitor -				
TECHNICAL		ME & RNAME	Serhat A	Altındağ	
RESPONSIBLE	CONTACT	PHONE	0530 049	9 87 97	
	INFO	E-MAIL			
PLANNED CONSTRUCTION ACTIVITIES IN THE BUILDING					

All planned works in the buildings are listed in Table 11-13.

DURATION & SEASON OF ACTIVITIES

<u>Upon completion of the bidding documentation, the Contractor is anticipated to finalize the construction works for the Government House within 12 months following the site handover.</u> Given the current uncertainty regarding the exact commencement date, the construction season has not yet been definitively determined. Nevertheless, the works are expected to be completed subsequent to the tender process scheduled for 2025.

NUMBER OF WORKERS EXPECTED DURING RENOVATION WORKS

To complete the planned works within the targeted timeframe, an estimated employment of 25 workers/day is foreseen.

Tunceli Provincial Directorate of Environment, Urbanization and Climate

Change Building:
Building Height: 16.4 m
Number Of Floor: B+Z+3N Kat

Table 10 - General Information Table of Tunceli Cultural Center

BUILDING NAME	Tunceli Cultural Center				
NUILDING OWNER	Ministry of Cultur and Tourism				
ADRESS	Atatürk Mh. 22. Cadde No: 2 Merkez/TUNCELİ				
PROVINCE	Tunceli			POSTAL CODE	62000
CONST. YEAR	2007		CONST. AREA	5.395 m ²	
INTENDED USE	Cultural Center			NUMBER OF BLOCKS IN BUILDING GROUP	1
USABLE INDOOR AREA	5.395 m ²		TOTAL ENCLOSED VOLUME	18.992 m ³	
NUMBER OF USERS	Personnel: 17 (7 kadın, 10 erkek),				
TECHNICAL	_	NAME & SURNAME	Gözde l	Erdoğan	
RESPONSIBLE	CONTACT	PHONE	0505 85	4 99 11	
	INFO	E-MAIL			
PLANNED CONSTRUC	CTION ACTIVITI	ES IN THE BU	ILDING		

All planned works in the buildings are listed in Table 11-14.

DURATION & SEASON OF ACTIVITIES

Upon completion of the bidding documentation, the Contractor is anticipated to finalize the construction works for the Government House within 12 months following the site handover. Given the current uncertainty regarding the exact commencement date, the construction season has not yet been definitively determined. Nevertheless, the works are expected to be completed subsequent to the tender process scheduled for 2025.

NUMBER OF WORKERS EXPECTED DURING RENOVATION WORKS

To complete the planned works within the targeted timeframe, an estimated employment of 25 workers/day is foreseen.

Tunceli Cultural Center; Building Height: ~ 12,6 m Number Of Floors: B+Z+2N Kat

The subsequent page presents a table summarizing the planned construction activities, estimated number of personnel, and indicative completion timelines. The table serves for general reference purposes, and it is anticipated that the Contractor will adjust and finalize it according to their detailed construction schedule and work plan.

Table 11 - Planned Works In Tunceli Government House, Tunceli Cultural Center, Tunceli Provincial Directorate of Environment, Urbanization and Climate Change

	GENERAL DESCRIPTION OF WORKS	ESTIMATED NUMBER OF WORKERS	ESTIMATED DURATION (WEEKS)
	Wall Demolition & Dismantling Works		3
STRUCTURAL STRENGTHENING	Dismantling of Electrical and Mechanical Systems		3
	Sub-Basement Concrete Breaking and Foundation Filling		2
	Epoxy Anchors and Tests		3
	New Reinforcement Installation		4
	Formwork and Concrete Pouring	50	3
	Wall Construction		3
	Plastering		5
	Painting		4
FINISHING	Flooring		5
WORKS	Electrical & Mechanical Installation		4
	Automation		3
OTHER WORKS	Solar Panel Installation		1
	Testing & Inspection		1

Some of the electrical and mechanical installation works specified in Table 11, as well as the automation and solar panel installation sections, are included within the scope of energy efficiency measures. These measures are listed below.

Table 12 - Planned Works in Tunceli Government House

GENERAL DESCRIPTION OF WORKS	ESTIMATED NUMBER OF WORKERS	ESTIMATED DURATION (WEEKS)
Within the scope of the structural strengthening project, the necessary columns and beams have been jacketed using conventional reinforced concrete, and additional reinforced concrete shear walls have been incorporated into the structure. For the beams, columns, and/or shear walls that have become structurally inadequate or exhibited compromised behavior, strengthening with carbon fiber—reinforced polymer (FRP) has been planned. Under the strengthening works, 102 columns and 8 shear	20	20

walls will be strengthened, and 44 new shear walls will be constructed.	
Thermal insulation of the external walls of the Government House using 10 cm thick rock wool material and of the roof using 16 cm thick glass wool material.	1
Replacement of the existing window frames with insulated aluminum frames and installation of new double-glazed LOW-E coated glass units $(4 + 16 + 4 \text{ mm})$.	3
Replacement of three existing boilers in the central heating plant with one high-efficiency condensing boiler.	4
Installation of thermostatic radiator valves.	4
Replacement of existing heating circulation pumps with high-efficiency fan- coil heating/cooling pumps, including chiller and radiator circuit pumps.	4
Removal of split air-conditioning units in the Service Building and installation of a new high-efficiency 1400 kW-capacity chiller system.	3
Replacement of existing radiators in the Service Building (excluding basement floors and restrooms) with floor-mounted fan-coil systems, while ceiling-mounted fan-coil units will be installed in courtrooms.	3

Table 13 - Planned Works in Tunceli Provincial Directorate of Environment, Urbanization and Climate Change

GENERAL DESCRIPTION OF WORKS	ESTIMATED NUMBER OF WORKERS	ESTIMATED DURATION (WEEKS)
Within the scope of the structural strengthening project, the necessary columns and beams have been jacketed using conventional reinforced concrete, and additional reinforced concrete shear walls have been incorporated into the structure. For the beams, columns, and/or shear walls that have become structurally inadequate or exhibited compromised behavior, strengthening with carbon fiber—reinforced polymer (FRP) has been planned. Under the strengthening works, 31 columns will be strengthened, and 6 new shear walls will be constructed.	10	15
Thermal insulation of the building's exterior walls using 10 cm thick rock wool material and of the pitched roof using 16 cm thick glass wool material; replacement of the existing window glazing with $4 + 16 + 4$ mm thick LOW-E coated glass units.		1
Thermal insulation of mechanical installation equipment using appropriate insulation materials.		3
Installation of thermostatic radiator valves on existing radiators and replacement of deformed radiators.		3
Replacement of 221 inefficient lighting fixtures with energy-efficient LED lighting fixtures.		3

Table 14 - Planned Works in Tunceli Cultural Center

GENERAL DESCRIPTION OF WORKS	ESTIMATED NUMBER OF WORKERS	ESTIMATED DURATION (WEEKS)
Within the scope of the structural strengthening project, the necessary columns and beams have been jacketed using conventional reinforced concrete, and additional reinforced concrete shear walls have been incorporated into the structure. For the beams, columns, and/or shear walls that have become structurally inadequate or exhibited compromised behavior, strengthening with carbon fiber—reinforced polymer (FRP) has been planned. Under the strengthening works, 47 columns and 18 shear	15	15

walls will be strengthened, and 4 new shear walls will be constructed.	
Application of thermal insulation on the building's exterior walls using 10 cm thick rock wool material and on the pitched roof using 16 cm thick glass wool material; replacement of existing window glazing with 4 + 16 + 4 mm LOW-E coated double-glazed glass units.	3
Thermal insulation of mechanical installation equipment using appropriate insulation materials.	1
Replacement of six heating/cooling circulation pumps with high-efficiency pumps equipped with IE4 motors and variable speed drives (VSD).	1
Replacement of the existing 260 kW-capacity chiller with a new and energy-efficient chiller.	2
Installation of thermostatic radiator valves on existing radiators.	3
Installation of DX coils on existing air handling units.	3
Replacement of 765 inefficient lighting fixtures with energy-efficient LED lighting fixtures.	3

6.2 Pre-Construction Information & Site Layout Plans

Field data related to the campuses where the works will take place, building access areas, traffic action plans, temporary storage areas, parking spaces for construction vehicles and machinery, elevation differences, and other risk-prone zones are specified in Annex 1.

6.3 General Side Rules

- Entry and exit routes for vehicles (including construction machinery) to the work zones and parking areas are shown in Figures 7,9,11 (see also Annex 1).
- The buildings within the scope of the project shall not be in use during the execution of works. Therefore:
 - There will be no dedicated space provided for dining and resting for workers.
- On-site accommodation for workers within the side is not permitted. Contractor and subcontractors are responsible for arranging suitable accommodation (such as hotels, motels, etc.) for their workers.
- Temporary outdoor storage areas have been designated on a building-by-building basis as listed below. Storage outside of these designated areas is not permitted.
- During temporary storage, the Contractor must ensure that materials and equipment are stacked in a manner that poses no risks, are protected from environmental factors, and that necessary precautions are taken to prevent hazardous chemicals from leaking into the ground.
- Before these storage areas are used, the Contractor must describe how these measures will be ensured. Otherwise, the use of temporary storage areas will not be allowed.
- Emergency assembly areas, emergency exits, and traffic plans are shown below on a building-by-building basis. Warning signs shall be installed in these areas, and all workers shall be informed about the emergency assembly points by the OHS Specialist.
- The construction area shall be separated from vehicle and pedestrian traffic at a safe distance, and the necessary barriers, warning signs, and horizontal/vertical markings shall be provided by the Contractor.



Figure 7 - Tunceli Government House Emergency Assembly Area and Emergency Exit Plan



Figure 8 - Tunceli Government House Temporary Storage and Container Areas

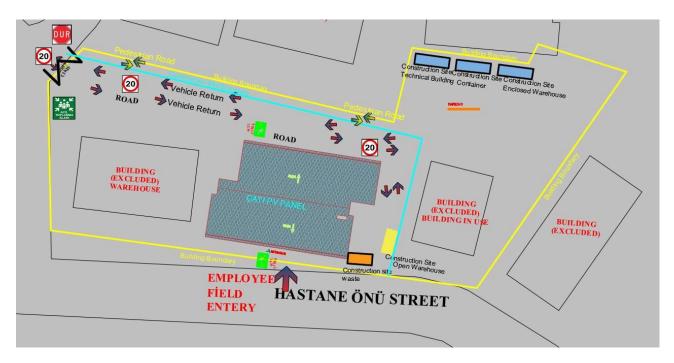


Figure 9 - Tunceli Provincial Directorate of Environment, Urbanization and Climate Change Emergency Assembly Area and Emergency Exit Plan

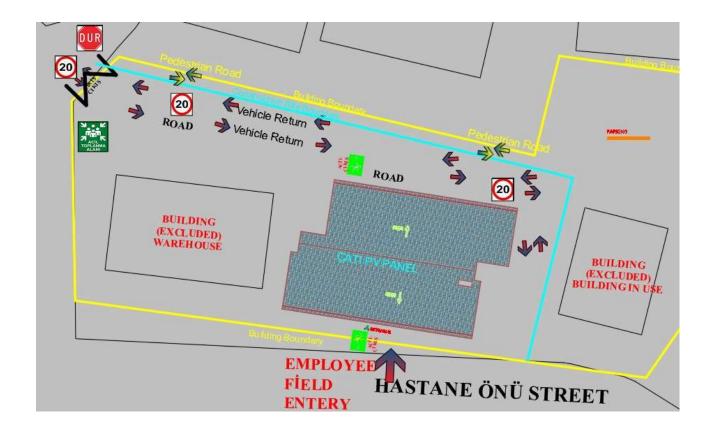


Figure 10 - Tunceli Provincial Directorate of Environment, Urbanization and Climate Change Temporary Storage and Container
Areas

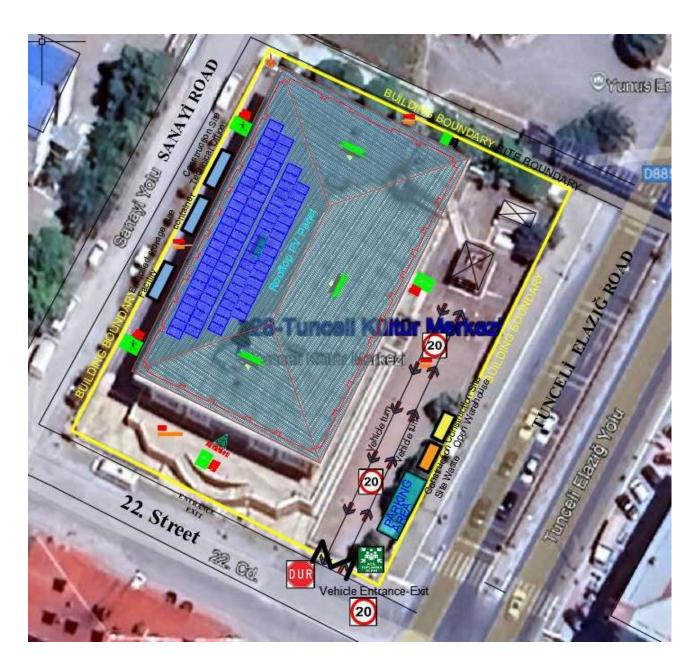


Figure 11 - Tunceli Cultural Center Emergency Assembly Area and Emergency Exit Plan

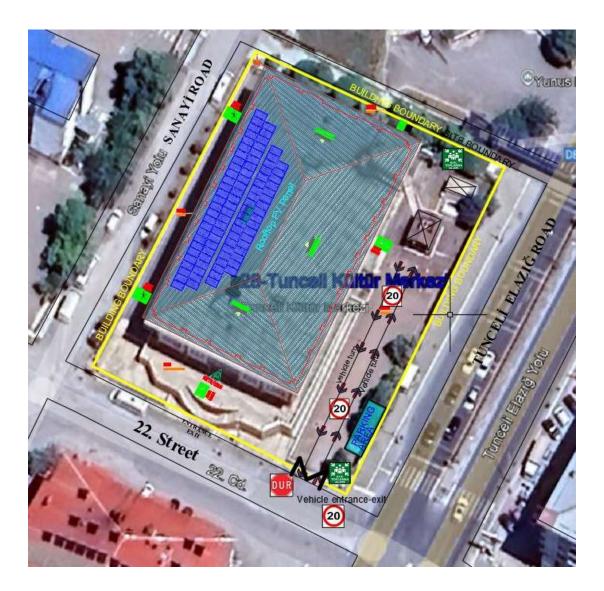


Figure 12 - Tunceli Cultural Center Temporary Storage and Container Areas

- The designated emergency assembly areas listed above shall be used in all OHS drills. For each drill, the responsible OHS Specialist must determine and document the required evacuation and assembly time.
- These emergency assembly areas shall be included in OHS training materials.
- Interior building toilets shall be used for sanitary needs.
- Shower needs shall be met at the accommodations (hotels, etc.) arranged by the Contractor and subcontractors.
- Sinks inside the building toilets shall be used for handwashing only not for drinking water. Drinking water shall be provided to all workers in bottled form. The following warning signs shall be installed in all toilet facilities.



- Smoking is prohibited inside the buildings and in temporary storage areas.
- Warning signs indicating "No Smoking" and "No Open Flames" shall be posted at building entrances and in all temporary storage zones.





• Smoking areas may be designated outdoors, at least 5 meters away from building entrances. These designated smoking areas must be clearly marked with the relevant warning signs, and all workers must be informed about where smoking is permitted.



All machinery and electrical devices used during construction activities must bear the CE mark. Products falling within the scope of the "CE" MARKING REGULATIONS that do not carry this symbol or do not meet the associated requirements shall not be used.

3 Relevant Directives:

- Machinery Safety Regulation (2006/42/EC)
- Low Voltage Equipment Regulation (2014/35/EU)
- Pressure Equipment Regulation (2014/68/EU)
- Gas Appliances Regulation (2016/426/EU)

Relevant Standards (must be reviewed for each device separately):

- TS EN ISO 12100 Safety of Machinery General Principles for Design risk Assessment and risk Reduction
- TS EN 60204-1 Safety of Machinery Electrical Equipment of Machines Part 1: General Requirements
- TS EN 60335-1 Safety Rules For Electrical Appliances Used in Households and Similar Applications Part 1: General Requirements
- TS 1203 EN 286-1 Simple, Non-Flammable, Pressurized Tanks
- TS 10116 Cranes Testing and Inspection Methods

7. Health & Safety Organisation

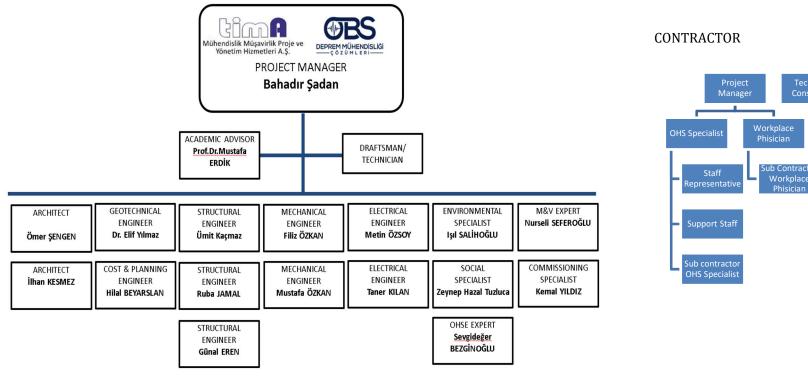


Figure 13 - Tunceli Government House, Provincial Directorate of Environment, Urbanization and Climate Change, and Provincial Cultural
Center Health and Safety Organization Chart

• The organizational chart graphic follows here, the title stays exactly as written.

7.1 Contractor

7.1.1. Duties of Project Manager

The Project Manager has been assigned as the Employer's Representative for this project and has assumed employer responsibilities.

Accordingly:

- 1. Ensure the implementation of the Occupational Health and Safety Plan (OHSP) and legal regulations and practices within the scope of the project.
- 2. Review the construction methods and risk assessments to be prepared by the Contractor from technical, administrative, and occupational health and safety perspectives. In case of inadequacy, state the reasons and follow up on the revision processes.
 - a) Ensure that the construction methods and risk assessments prepared by the Contractor cover all subcontractor activities included in the scope of the project.
 - b) Ensure inspections and controls regarding the Contractor and subcontractors on the following topics:
 - i. Proper informing of all employees,
 - ii. Provision of necessary resources (equipment, tools, human resources),
 - iii. Compliance of managers and employees with the determined rules.
- 3. Ensure that the adequacy and appropriateness of risk assessments are verified through on-site inspections.
 - a) Record all nonconformities detected during these inspections as corrective actions. Ensure that the nonconformities are corrected appropriately and within deadlines.
 - b) Recognize that identified nonconformities or corrective actions may require the revision of the relevant risk assessment. In such cases, ensure that the revised risk assessment is issued by stating the revision number, date, reasons, and obtaining necessary approvals.
- 4. Ensure the procurement and verification of the periodic health reports of workers in accordance with their job descriptions. Workers without appropriate health reports shall not be allowed to work.
- 5. the verification of workers' occupational health and safety training records; workers without proven legal OHS training shall not be allowed to work.
- 6. Ensure the verification of the vocational qualification certificates of workers; workers without the necessary certificates shall not be allowed to work.
- 7. Ensure the identification, procurement, and proper distribution of the necessary Personal Protective Equipment (PPE) to workers.
- 8. Ensure the identification, procurement, and installation of the necessary safety equipment at the construction site (e.g., protective nets, railings, lifelines).
- 9. Ensure that all work accidents are reported in accordance with Article 14 of the Occupational Health and Safety Law No. 6331.
- 10. Fulfill all other employer obligations specified in the Occupational Health and Safety Law No. 6331.
- a-) To ensure this, the Project Manager must review the current Occupational Health and Safety Law No. 6331 and the related regulations together with the OHS Specialist and Workplace Physician.

7.1.2. Duties of OHS Specialist

Occupational Health and Safety (OHS) Specialists shall carry out their duties in accordance with Article 9 of the Regulation on the Duties, Authorities, Responsibilities and Training of Occupational Safety Specialists (Official Gazette Date: 29.12.2012 / Issue: 28512). The OHS activities will be managed in line with the duties listed below:

1. Guidance:

- a) Provide recommendations to the employer to ensure that planning, organization, and execution of the work including workplace activities and changes to be made, the status, maintenance, selection of machinery and other equipment, materials used, selection, provision, use, maintenance, preservation, and testing of personal protective equipment are in compliance with occupational health and safety legislation and general safety rules.
- b) Notify the employer in writing of the occupational health and safety measures that must be taken.
- c) Investigate the causes of occupational accidents and diseases occurring in the workplace, recommend preventive measures to avoid recurrence.
- d) Investigate incidents that do not result in injury or death but have the potential to cause harm to workers, equipment, or the workplace, and provide recommendations to the employer.

2. Risk Assessment:

Participate in the preparation and implementation of risk assessments from an occupational health and safety perspective, provide recommendations to the employer regarding health and safety measures to be taken as a result of the risk assessment, and follow up on their implementation.

3. Workplace Surveillance:

- a) Monitor the working environment; plan and oversee the implementation of periodic maintenance, controls, and measurements required by OHS legislation.
- b) Participate in efforts to prevent accidents, fires, or explosions in the workplace, advise the employer on this matter, follow up on practices; take part in the preparation of emergency plans for natural disasters, accidents, fires, or explosions, ensure that periodic training and drills are conducted, and monitor compliance with emergency plans.

4. Training, Information, and Documentation:

- a) Plan the OHS trainings of workers in accordance with applicable legislation, submit to the employer for approval, and ensure their implementation or supervision.
- b) Record OHS-related activities and results of workplace environment surveillance.
- c) Organize informational activities for employees, submit them for employer approval, and supervise implementation.
- d) Prepare occupational health and safety instructions and work permit procedures where necessary, submit them to the employer for approval, and ensure implementation.

5. Cooperation with Relevant Units:

⁴ Law No. 6331 on Occupational Health and Safety (Official Gazette Date: 30.06.2012, Issue No: 28339) Article 3, Paragraph 2: Representatives of the employer who act on behalf of the employer and take part in the management of the work or workplace shall be deemed employers within the scope of this Law.

⁵ It should be evaluated within the scope of Corrective Action (including detection dates, justifications, corrective action proposals, deadlines, etc.) and recorded accordingly.

- a) Cooperate with the workplace physician to evaluate occupational accidents and diseases, investigate hazardous events to prevent recurrence, prepare preventive action plans, and follow up on implementation.
- b) Prepare the annual work plan for the following year in cooperation with the workplace physician.
- c) Collaborate with the OHS Committee, if such a committee exists in the workplace.
- d) Support and cooperate with worker representatives and support personnel.

In this context, the OHS Specialist shall also:

- 1. Review construction methods and risk analyses, prepare a report regarding their compliance, and submit it to the Project Manager and the Contractor's Project Manager.
- 2. During the project preparation phase, prepare weekly monitoring reports and submit them to the Project Implementation Unit.
- 3. During the implementation phase, ensure that the Contractor prepares monthly OHS reports and submit these to the Employer in the specified format.
- 4. Ensure that periodic inspection reports for construction equipment are obtained and reviewed. (Maximum inspection interval is 1 year as per legislation.)
- 5. Ensure the distribution of personal protective equipment (PPE) indicated in the risk assessment to all workers. (During site inspections, review PPE delivery records, assess adequacy and proper use.)
- 6. Verify the authority and appointments of the Contractor's and Subcontractors' OHS Specialists and Workplace Physicians.
- 7. Update and improve this document based on on-site findings.
- 8. Review employee personnel files.
- 9. Review training records and certificates related to previous OHS training for all workers (valid for a maximum of 1 year).
- 10. Participate in weekly and monthly OHS meetings and report outcomes to management.
- 11. Verify the professional qualification certificates of employees.
- 12. Examine work reports from an OHS perspective and evaluate any noncompliant tasks or equipment.
- 13. Conduct daily site inspections, assess tasks or equipment for OHS compliance, and evaluate adequacy of risk analyses and protective measures on-site.
- 14. Review on-site inspection reports prepared by the Contractor's and Subcontractors' OHS Specialists. Monitor and verify that identified nonconformities are followed up.
- 15. Review records of OHS trainings provided by the Contractor and Subcontractors (e.g., Risk Assessment, Toolbox Talks), evaluate their adequacy (duration, content).
- 16. Communicate with worker representatives, request feedback. Report any issues raised by worker representatives to the Project Coordinator, identify and implement necessary actions.
- 17. Review accident reports prepared by the Contractor and Subcontractors, examine content and sequence of events, verify compliance with legal notification requirements.

- 18. Check suggestion and complaint boxes. Evaluate feedback (printed or digital) within the OHS framework, inform those providing feedback, evaluate requests, and determine necessary actions. (This process shall be conducted in coordination with the Social Specialist.)
- 19. Inform the Project Manager without delay regarding field observations, feedback, inputs from the Contractor and Subcontractors' OHS Specialists, and work accidents.

7.1.3. Duties of Workplace Phisician

The duties of Workplace Physicians are defined in Article 9 of the Regulation on the Duties, Authorities, Responsibilities and Training of Workplace Physicians and Other Health Personnel (Official Gazette Date: 20.07.2013 / Issue No: 28713). Occupational health activities shall be managed in accordance with the duties listed below

1. Guidance;

- a) Provide recommendations to the employer to ensure that the planning, organization, execution, and maintenance of work including design, condition, maintenance and selection of machinery and other equipment, materials used, and the selection, provision, use, maintenance, preservation, and testing of personal protective equipment are carried out in compliance with occupational health and safety legislation and general hygiene rules.
- b) Notify the employer in writing of the necessary health and safety measures to be taken.
- c) Investigate the causes of occupational accidents and diseases that occur in the workplace, and make recommendations to the employer on measures to prevent recurrence.
- d) Investigate events that did not cause death or injury but had the potential to harm employees, equipment, or the workplace, and make recommendations to the employer.
- e) Evaluate the suitability of workers for the job in terms of health, and make recommendations accordingly.
- f) Provide recommendations to the employer regarding the physical and mental strain caused by work on employees and propose solutions.
- g) Assess the adequacy of workplace hygiene conditions and provide necessary guidance.
- h) Provide advice to the employer on ensuring a work environment that supports employee well-being and mental health.

2. Risk assessment

Participate in the preparation and implementation of risk assessments in terms of employee health, provide recommendations to the employer regarding health-related measures that should be taken as a result of the risk assessment, and follow up on their implementation.

3. Health surveillance of the working environment

- a) Monitor the working environment; plan and supervise the implementation of periodic maintenance, inspections, and measurements that are required by occupational health and safety legislation.
- b) Participate in efforts to prevent workplace accidents, fires, or explosions; provide recommendations to the employer on this matter; follow up on practices; participate in the preparation of emergency plans for events such as natural disasters, accidents, fires, or explosions; ensure that periodic trainings and drills related to this subject are conducted, and that actions are taken in line with the emergency plan.
- c) Conduct regular inspections of food preparation, storage, and consumption areas, as well as other hygiene-related areas used by workers.

- d) Ensure that potable drinking water is provided in sufficient quantity and hygiene standards, and that water tanks and distribution lines are maintained properly.
- e) Oversee sanitation conditions such as toilets, washbasins, and showers, and ensure their hygienic upkeep.
- f) Supervise cleaning activities carried out by the contractor, ensuring appropriate cleaning frequency and the use of suitable cleaning materials.
- g) Control the storage and disposal conditions of domestic and medical waste; ensure appropriate collection, labeling, temporary storage, and removal processes are implemented.
- h) Observe and document environmental factors (dust, temperature, humidity, lighting, noise, etc.) and share these with the employer as part of periodic workplace environment evaluations..

4. Training, information, and record keeping

- a) Prepare a plan for occupational health and hygiene trainings for employees in accordance with applicable legislation, submit it to the employer for approval, and implement or supervise its implementation.
- b) Record occupational health activities related to the working environment and the results of health surveillance.
- c) Organize informational activities for employees, submit them to the employer for approval, and supervise their implementation.
- d) Prepare occupational health and hygiene instructions and work permit procedures for use where necessary, submit them to the employer for approval, and supervise their implementation.
- e) Evaluate records of health surveillance and occupational health training regularly, identify deficiencies, and inform the employer of required corrective actions.

5. Cooperation with relevant units

- a) Together with the Occupational Safety Specialist, evaluate occupational accidents and occupational diseases; investigate hazardous incidents to prevent recurrence; prepare the necessary preventive action plans and follow up on their implementation.
- b) Prepare the annual work plan for the following year, which includes occupational health and safety-related activities, in cooperation with the Occupational Safety Specialist.
- c) If present, work in cooperation with the Occupational Health and Safety Committee of which they are a member.
- d) Support the work of employee representatives and designated support staff, and cooperate with these persons.
- e) Collaborate with administrative units to ensure the maintenance and hygiene of health facilities (infirmaries, first aid rooms), and verify the adequacy of medical supplies.
- f) Inform the employer and Project Manager without delay in the event of detection of contagious diseases, mental health risks, or health-related emergencies.
- g) Coordinate with the Social Specialist to address health risks related to nutrition, shelter, hygiene, stress, and social well-being.

Within this framework;

- 1. Verify the authority and appointments of the Contractor's and Subcontractors' Workplace Physicians.
- 2. Improve this document and update it based on field findings.
- 3. Support the risk analysis review process by examining the construction methods and site-specific data obtained from subcontractors and other specialists.
- 4. Check the personnel files of employees.

- 5. Review the periodic health reports of employees.
- 6. Review weekly work reports from an occupational health perspective; assess the existence of noncompliant practices or equipment.
- 7. Review reports related to site inspections conducted by the Workplace Physicians of the Contractor and Subcontractors. Monitor and control identified nonconformities.
- 8. Review the records of recent trainings provided by the Contractor's and Subcontractors' Workplace Physicians. Verify their compliance (duration, content).
- 9. Maintain contact with Employee Representatives, request feedback. Report the matters raised by Employee Representatives to the Social Specialist and the Project Manager, determine and implement necessary actions from an occupational health perspective.
- 10. Obtain occupational disease reports issued by the Contractor's and Subcontractors' Workplace Physicians, review them in terms of content and event chronology, and verify whether the notifications have been made in accordance with legal requirements.
- 11. Evaluate the feedback obtained through the suggestion and complaint system from an occupational health perspective in line with the requests of the Social Specialist and determine the necessary actions.

Inform the Project Manager without delay regarding field observations, feedback, information obtained from the Contractor's and Subcontractors' Workplace Physicians, and workplace accidents.

7.1.4. Duties of Technical Specialists

The Technical Specialist Unit, consisting of Civil Engineering, Mechanical Engineering, and Electrical Engineering disciplines, shall perform the following duties within OHS processes:

- 1. Inform the OHS Specialists about the technical details and processes of the work.
- 2. Ensure that the work they inspect is conducted in a manner that protects the health and safety of employees.
- 3. Review the construction methods prepared by the Contractor and render an opinion on their adequacy.
- 4. Evaluate the matters specified in the risk assessments (hazards, risks, and measures) from a technical perspective and render an opinion on their appropriateness.
- 5. If deemed necessary by the OHS Specialist, participate in the work permit system, respond to the OHS Specialist's questions, and evaluate and review the documents submitted by the OHS Specialist within this framework.
- 6. Evaluate the OHS training contents conducted by the Contractor from a technical perspective and render an opinion on their adequacy (e.g., LOTO system, scaffold erection and use, etc.).

7.1.5. Duties of Social Specialist Regarding OHS

- 1. Receive and list the printed suggestion and complaint forms collected by the OHS Specialist.
- 2. Review the feedback obtained through the Suggestion & Complaint System; where necessary, involve the OHS Specialist and Workplace Physician in the feedback evaluation process.
- 3. Maintain communication with Employee Representatives and support the establishment of healthy and strong communication between the OHS Specialist, Workplace Physician, and Employee Representatives.

7.1.6. Duties of Support Staff

Carry out the tasks requested by the OHS Specialist and Workplace Physician.

7.2 Contractor

7.2.1. Duties of the Employer & Employer's Representative

The Project Manager has been assigned as the Employer's Representative for this project only. In this context, he/she has assumed the employer's duties.

- 1. Fulfill all duties defined under Occupational Health and Safety Law No. 6331 as the employer.
- 2. Ensure the monitoring requirements, frequencies, and responsibilities stated in Table 29 OHS Monitoring Plan are met.
- 3. Ensure that this document provided by the Consultant's OHS Specialist is delivered to and understood by all relevant units.
- 4. Ensure that the construction methods and risk analysis are prepared and submitted to the Consultant before site work begins.
- 5. Ensure that the OHS Plan, construction methods, and risk analysis are prepared and submitted to the Consultant before site activities commence.
- 6. Ensure that the information and documents requested by the Consultant's Social Specialist are promptly obtained and delivered.
- 7. Establish and ensure the effectiveness of the Suggestion & Complaint System conveyed by the Consultant's Social Specialist.
- 8. Participate in meetings and interviews requested by the Consultant's Project Manager.
- 9. Monitor and control the performance of the assigned OHS Specialist and Workplace Physician.
- 10. Review the records related to the performance of the OHS Specialist and Workplace Physician as reported by the Consultant's OHS Specialist and fulfill the related requests (replacement of personnel, warnings, etc.).

7.2.2. Duties of OHS Specialist

- 1. Fulfill all duties defined under the Regulation on the Duties, Authorities, Responsibilities, and Training of Occupational Safety Specialists without exception.
- 2. Ensure that the Contractor company prepares the OHS Plan in accordance with this OHS Plan, that the risk assessment is created within the framework of the construction method, and that both are submitted to the Consultant's OHS Specialist before site activities commence.
- 3. Deliver the employees' previous OHS training records and certificates to the Consultant's OHS Specialist.
- 4. Provide updated trainings to employees within the framework of this document and the risk assessment, keep the training records, and deliver these records to the Consultant's OHS Specialist.

6 Law No. 6331 on Occupational Health and Safety (Official Gazette Date: 30.06.2012, Issue No: 28339) Article 3, Paragraph 2: Representatives of the employer who act on behalf of the employer and take part in the management of the work or workplace shall be deemed employers within the scope of this Law.

- 5. Plan and implement additional trainings requested by the Consultant's OHS Specialist, keep the training records, and deliver them to the Consultant's OHS Specialist.
- 6. Deliver the Vocational Qualification Certificates of employees to the Consultant's OHS Specialist.

- 7. Inform all employees about the Suggestion & Complaint System applied specifically to this project.
- 8. Deliver the periodic inspection reports of construction machinery to the Consultant's OHS Specialist.
- 9. Deliver the PPE Lists (standards, quantities, etc.) and delivery records to the Consultant's OHS Specialist.
- 10. Participate in site inspections carried out by the Consultant's OHS Specialist and have the requested information and documents ready for review.
- 11. Deliver the records regarding work accidents to the Consultant's OHS Specialist.
- 12. Implement the corrective actions notified by the Consultant and inform the Consultant's OHS Specialist and/or Workplace Physician regarding the progress of the process.
- 13. Plan, participate in, and report weekly and monthly OHS meetings. Plan, participate in, and report monthly İSG meetings.

7.2.3. Duties of Subcontractor Workplace Physicians

- 11. Fulfill all duties defined under the Regulation on the Duties, Authorities, Responsibilities, and Training of Workplace Physicians and Other Health Personnel without exception.
- 12. Ensure the creation of the risk assessment within the framework of the construction method.
- 13. Deliver the employees' periodic occupational health reports to the Consultant's Workplace Physician.
- 14. Deliver the records and certificates related to employees' previous occupational health trainings to the Consultant's Workplace Physician.
- 15. Plan and implement additional trainings requested by the Consultant's Workplace Physician, keep the training records, and deliver them to the Consultant's Workplace Physician.
- 16. Deliver the records related to occupational diseases to the Consultant's Workplace Physician.

7.2.4. OHS Duties of Technical Specialists

The Technical Specialist Unit, consisting of Civil Engineering, Mechanical Engineering, and Electrical Engineering disciplines, shall perform the following duties within OHS processes:

- 1. Inform the OHS Specialists about the technical details and processes of the work.
- 2. Ensure that the work being carried out protects the health and safety of the employees.
- 3. Prepare the construction methods and deliver them to the OHS Specialist.
- 4. Evaluate the matters specified in the risk assessments (hazards, risks, and preventive measures) from a technical perspective and render an opinion on their appropriateness.
- 5. If deemed necessary by the OHS Specialist, participate in the work permit system, respond to the OHS Specialist's questions, and evaluate and review the documents submitted by the OHS Specialist within this framework.
- 6. Support the technical improvement of OHS training contents (e.g., LOTO system, scaffold erection and usage, etc.).

7.2.5. Duties of Staff Representative

- 1. Fulfill all duties and responsibilities defined under the Occupational Health and Safety Law No. 6331 (Official Gazette Date: 30.06.2012 / Issue No: 28339) without exception.
- 2. Participate in the risk assessment studies within the framework of the construction method.
- 3. Support the OHS Specialist in ensuring that employees' feedback is collected through the

- Suggestion & Complaint System specifically prepared for this project, and inform employees about this system.
- 4. Establish strong communication with the Consultant's OHS Specialist, Workplace Physician, and Social Specialist, and provide information about employees' general requests and conditions.
- 5. Immediately notify the Consultant's OHS Specialist regarding situations encountered related to the right to abstain from work.
- 6. Inform the Consultant's Social Specialist of any situation that may negatively affect the effectiveness of the Suggestion & Complaint System.

7.2.6. Duties of Support Staff

Carry out the tasks requested by the OHS Specialist and the Workplace Physician. Two occupational health and safety workers shall perform regular duties on site.

8. Management Of Works

General Work Program and Cross-Interaction

The general work program is presented below for your information. This program is not final and has only been created to identify the risks of cross-interactions during the works. The detailed work schedule/plan must be prepared by the contractor and submitted to the Consultant.

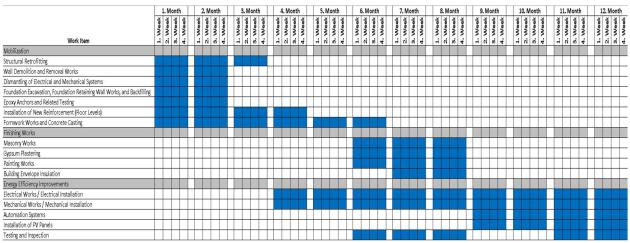


Figure 14 - Work Schedule for Tunceli Government Office, Cultural Center, and Provincial Directorate of Environment, Urbanization and Climate Change

8.1 Work Methods

The general descriptions related to the construction process specified below have been prepared to guide the contractor in developing detailed construction methods and risk analysis studies. The contractor shall prepare the construction method and risk analysis before starting each new work and shall submit it to the consultant for approval. Work shall commence only after receiving the approval.

8.1.1 Structural Strengthening

- 1. The Current Status Performance Report prepared in line with the structural research and findings provides objective evidence that the strengthening of the structure is necessary. The infrastructure construction around the buildings, land surveying, route excavation, adjustment of route elevations, scaffolding installation, and formation of shafts will be carried out by conventional methods. The superstructure coming out of the building will be connected to the new shafts. Important points to be considered are listed below:
 - The use of construction machinery is very important. Excavation works include the use of excavators, loaders, and trucks. Before starting the work, it is mandatory to check the periodic inspection reports and the user competency documents (operator license, Class C driver's license) of these machines.
 - In areas where there are underground natural gas pipeline facilities, before the Phase II (Construction Phase) of the Projects starts, the Natural Gas Provider Company is responsible for performing the necessary works to provide a suitable environment. The implementation of the project must be carried out under the supervision of Infrastructure Construction Control Personnel Level 4 (National Vocational Qualification Institution (MYK) Law No. 5544 12UY0042-4).

- (The mentioned Natural Gas Pipeline process will be fully ready, all control and tests will be carried out by the Local Distribution Company Service Provider before the Site Handover in order to ensure the creation of the necessary environment, and the delivery will be ensured as specified in the projects. The Property Owner must apply for the construction of the said facilities in accordance with the relevant legislation. Therefore, it is ABSOLUTELY impossible for either the Consultant Firm or the Contractor to intervene in these natural gas pipelines.)
- 2. In the superstructure strengthening application, dismantling operations will primarily be carried out from the upper floors to the lower floors. The reinforcement shear walls and column jackets on the determined axes will be demolished starting from the top floor using hammers and breakers. Before the demolition of walls, items that may be damaged such as doors, windows, fixtures, countertops, electrical and mechanical installations must be dismantled and protected. Important points to be considered are listed below:
 - The potential danger of the elements to be demolished containing electrical cables should be taken into account. Priority should be given to power cuts in the area; the electricity needs of cutters, drills, etc. should be supplied from alternative sources. Distribution boxes, sockets, lighting component lines, switches, etc. components should be checked before demolition and it should be verified that there is no electricity. In this process, only inspection items are not sufficient. Control devices such as phase voltage detectors must be used at minimum. Functional checks of these test devices must be performed daily (using working sockets).



Figure 15 - Phase Detector Sample Image

• All electric hand tools must have undergone PAT tests. PAT test reports will be requested and checked before the work begins. During site inspections, the presence of PAT inspection and approval labels on the electrical devices will be checked. Devices and equipment that do not bear a conformity label shall not be permitted for use. (Extension cables are also included in this scope.)



Figure 16 - PAT Test Label Sample Image

- Care must be taken to prevent damage to electrical extension cords and to ensure that such cables do not come into contact with water. Extension cords and power cables of other electrical devices shall be checked daily. The use of damaged cables is not permitted.
- Both sides of the walls must be checked during demolition, and the necessary restrictions
 must be implemented to prevent workers from being trapped under debris (restricting
 access, monitoring the impact zones of the walls to be demolished, use of warning and
 caution signs, etc.)
- In wall demolitions affecting the exterior of the building, impact zones must be identified and access to these areas must be prohibited.
- Reinforced areas must be marked before wall demolition. It is essential that the said reinforced elements (load-bearing) are not damaged. The demolition team shall be warned about this matter daily.
- In order to prevent the demolition works from damaging the slab, the walls must be
 broken into pieces and dropped in a controlled manner. The techniques that must be
 applied to prevent the demolition of walls in whole form must be communicated to the
 workers. Protective covers of appropriate thickness must be used for surfaces that need
 to be preserved.
- Workers involved in debris transportation must be informed about manual handling procedures. Throwing debris outside uncontrollably from height is prohibited. The method of debris removal shall be determined and announced by the contractor.
- Workers involved in the transportation of debris must be informed about manual handling rules. Throwing debris outside uncontrollably from height is prohibited. The method of debris disposal shall be determined and announced by the contractor.
- Use of dust masks and protective goggles is mandatory to protect workers from dust during demolition.
- Use of earplugs or earmuffs is essential to protect workers from noise during demolition.
- Use of protective goggles is mandatory to protect workers from flying particles during demolition.
- 3. After the dismantling process, in order to connect the strengthening elements to the foundations, it is necessary to break the subbasement concrete and excavate the infill inside the foundation to open the surroundings of the shear wall and column jacket. These breaking and excavation processes will be carried out manually (with the help of breaker and sledgehammer) and/or with small machines (such as bobcat) that can enter the building.

The major points to be considered are listed below:

- For the use of small excavators and loaders to be used during excavation works; first of all, it is mandatory to check the periodic inspection reports of the said machines and the operator competency certificates (operator license).
- Before maneuvers with construction machinery in narrow spaces, responsible operators must be informed in advance to prevent damage to walls and reinforced components that need to be preserved. The construction methods related to the use of these machines inside the building must be submitted to the consultant in advance. (In this document, the transport of the construction machine to the work area, the walls to be demolished to bring the machine inside the building, whether there is a risk of permanent damage during maneuvering and operation inside the building must be specified.)
- Warning tapes must be installed around the excavated areas. In case of night work, the

said tapes must be reflective.

4. After the breaking and excavation processes are completed, anchor bars are driven into the existing columns, beams, and foundations. The anchor holes are drilled into the existing elements using rotary hammers in accordance with the dimensions in the detailed drawings, the holes are cleaned with an air compressor, epoxy adhesive is injected into the hole, and the pre-prepared anchor bar (prepared from standard ribbed reinforcement steel) is inserted into the hole.



Figure 17 - Sample Image of Anchor Bar Installation

Major points to be considered are listed below:

- Anchor bars left exposed present a serious risk of injury or even death in the event of a fall. As long as these areas contain risk, they must be enclosed with warning labels and workers must be warned. (Care must be taken to ensure that the tips of the anchor bars are not sharp or cutting.) Areas with fall risk must especially be enclosed with warning tapes using the impact zone principle.
- All electric hand tools must have undergone PAT tests. PAT test reports will be
 requested and checked before the work begins. During site inspections, the presence
 of PAT inspection and approval labels on the electrical devices will be checked.
 Devices and equipment that do not bear a conformity label shall not be permitted for
 use. (Extension cords are also included in this scope.)
- Care must be taken to prevent damage to electrical extension cords and to ensure
 that such cables do not come into contact with water. Extension cords and power
 cables of other electrical devices shall be checked daily. The use of damaged cables
 is not permitted.
- There is a risk of anchor bars being driven falling to the ground from the outside of the building. Workers must consider this risk during the stacking and placement of said ribbed bars. The use of helmets by all workers within the worksite is a minimum requirement.
- It is likely that the anchor bars are rusty. Therefore, it is mandatory that workers use protective gloves of appropriate type. In addition, all workers must have received their tetanus vaccinations. (The Workplace Physician must inform workers during trainings about infections and tetanus caused by rusty metals.)
- The compressors to be used in hole cleaning must be inspected by qualified mechanical engineers and their compliance must be verified.
- MSDS sheets of epoxy adhesives must be checked by the workplace physicians and workers must be informed (volatility, eye contact, etc.).
- The necessity of an eye wash station against dust and chemical use must be determined by the Workplace Physician.

- Personnel who will process reinforcement bars must hold a Reinforced Concrete Ironworker Level 3 (11UY0012-3) certificate.
- 5. Performing the installation of reinforcement for the strengthening element together with anchor production works.

Major points to be considered are listed below:

- During the placement of reinforcement metals, puncture and cutting risks must be taken into account, and their ends must not be left exposed in a way that creates danger.
- The ends of reinforcement metals that carry a risk of puncture and are difficult to see due to elevation differences, etc., must be covered with plastic pads and made visible with warning signs.
- It is likely that the reinforcement bars are rusty. Therefore, it is mandatory that workers use protective gloves of appropriate type. In addition, all workers must have received their tetanus vaccinations. (The Workplace Physician must inform workers during trainings about infections and tetanus caused by rusty metals.)
- In the case of using rebar bending and cutting machines during the shaping of reinforcement bars, said machines must have undergone PAT tests. PAT test reports will be requested and checked before the work begins. During site inspections, the presence of PAT inspection and approval labels on the electrical devices will be checked. Devices and equipment that do not bear a conformity label shall not be permitted for use. (Extension cords are also included in this scope.)
- Personnel who will process reinforcement bars must hold a Reinforced Concrete Ironworker Level 3 (11UY0012-3) certificate.
- 6. After the tests and reinforcement samples are received by the control organization, plywood formworks are closed, and "self-compacting concrete" (fine aggregate, superplasticizer additive concrete) is poured into the formwork through the hole opened from the slab of the upper floor or through funnels produced from formwork also known as bird mouths. The concrete pouring process is carried out using a transit mixer and a concrete pump. In areas where the tip of the pump cannot reach inside the existing structure, if necessary, mobile pipes (corrugated pipes, etc.) or manual transport of concrete can be used. After pouring the concrete of the strengthening elements of one floor, the concrete of the upper floor should be poured at least 2 days later. Possible gaps that will occur due to the inability of concrete to reach between the existing element and the new strengthening element after concrete casting shall be filled with high-strength, polymer fiber-reinforced repair mortars.

Major points to be considered at this stage are listed below:

- Il electric hand tools (mobile concrete mixer, vibrator, concrete pump, etc.) must have undergone PAT tests. PAT test reports will be requested and checked before the work begins. During site inspections, the presence of PAT inspection and approval labels on the electrical devices will be checked. Devices and equipment that do not bear a conformity label shall not be permitted for use. (Extension cords are also included in this scope.)
- Care must be taken to prevent damage to electrical extension cords and to ensure that such cables do not come into contact with water. Extension cords and power cables of other electrical devices shall be checked daily. The use of damaged cables is not permitted.

- MSDS sheets of repair mortars and similar materials must be checked by the workplace physicians and workers must be informed (inhalation, eye contact, etc.).
- During the access of transit mixers to the work area, action must be taken in accordance with the traffic action plan rules. During parking and operation, the access of unrelated workers near the transit mixer must be prevented with warning tapes.
- Personnel who will take part in formwork works must hold a Timber Formwork Worker Level 3 (11UY0011-3) certificate.
- Personnel who will take part in concrete pouring works must hold a Concrete Worker Level 3 (12UY0049-3) certificate.
- 7. After the completion of the rough construction, repair works begin. Plastering, painting, insulation, etc. applications on the interior and exterior surfaces of the strengthening shear walls, screed concrete and floor covering material arrangements on damaged floor surfaces, installation of electrical and mechanical installations, and if necessary, fabrication of doors and windows are carried out to complete the strengthening works.

Major points to be considered at this stage are listed below:

- In necessary cases, mobile and fixed temporary work scaffolds that must be installed shall be designed and constructed in accordance with TS EN 12811-1 and TS EN 12810-2 standards, in a manner that prevents accidental movement and collapse.
- Scaffold components must be designed in a way that ensures safe transport, assembly, use, maintenance, disassembly, and storage.
- The materials used must meet the requirements specified in the TS EN 12810-1 and TS EN 12811-2 standards, in which the design data is given, and must be strong and durable enough to withstand normal working conditions.
- It is mandatory that all personnel working on these scaffolds have received working-atheight training and use full body safety harnesses and fall protection equipment.

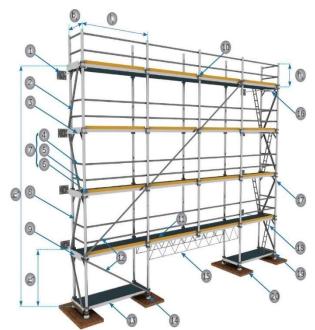


Figure 18 - Exterior Facade Scaffold Sample Image

- Personnel who will install scaffolding must hold a Scaffold Installer Level 3 (12UY0056-3) certificate.
- Personnel who will work on electrical installations must hold at minimum an Electrical Installer Level 3 (15UY0241-3) certificate.
- Personnel who will perform assembly on electrical panels and boards must hold at minimum an Electrical Panel Assembler Level 3 (12UY0075-3) certificate.
- During electrical panel/board assembly, torque-controlled screwdrivers and tightening equipment must be used. Appropriate tightening forces must be determined in advance according to the type of switchgear or screw-nut sizes and communicated to the responsible personnel.
- Personnel who will take part in the mechanical installation process must hold at minimum a Heating and Natural Gas Internal Installation Worker Level 3 (11UY0031-3) certificate.
- Personnel who will build walls must hold a Mason Level 3 (12UY0048-3) certificate.
- Personnel who will perform plastering must hold a Plasterer Level 3 (11UY0024-3) certificate.
- Personnel who will perform gypsum applications must hold a Gypsum Plaster Applicator Level 3 (12UY0055-3) certificate.
- Personnel who will take part in ceramic tile works must hold a Ceramic Tile Installer Level 3 (12UY0051-3) certificate.
- Personnel who will take part in painting works must hold a Construction Painter Level 3 (11UY0023-3) certificate.
- Personnel who will work on site must hold at minimum a Construction Worker Level 2 (16UY0253-2) certificate.
- MSDS sheets of repair mortars, paint, and similar chemicals must be checked by workplace physicians and workers must be informed (inhalation, eye contact, etc.).
- All personnel who will carry heavy loads must receive manual lifting and handling training.

Table 15 - Strengthening & Infrastructure Works Control Table

Building Strengthening & Infrastructure Works Task: WORK METHOD **Technical Description and Requirements Construction Technique and Technology** Explained under the subheading Building Strengthening and Infrastructure Works in 7 main items and their sub-items. **Use of Work Equipment** BACKHOE LOADER TRANSIT MIXER TRUCK BREAKER DRILL SPIRAL MORTAR MIXER COMPRESSOR MOBILE CONCRETE MIXER REBAR BENDING MACHINE REBAR CUTTING MACHINE CORDLESS / STATIONARY DRILL

CORDLESS SCREW / NUT DRIVER
 PHASE VOLTAGE DETECTOR
 MULTIMETER

TORQUE-CONTROLLED SCREWDRIVER

- TORQUE-CONTROLLED TIGHTENER
- INDOOR SCAFFOLDING (MOBILE / FIXED)
- HAMMER & CHISEL
- CORDLESS SCREWDRIVER
- EXTENSION CABLE

Use of Chemical Substances

CEMENT, PLASTER, EPOXY BINDER, PAINT, PAINT THINNER

Access to the Work Area

- The access route is provided in plan form under the heading Pre-Construction Information & Site Layout Plans.
 - The maximum speed limit for trucks within the campus is restricted to 20 km/h.
 - The maximum speed limit for mobile cranes within the campus is restricted to 20 km/h.

Transport & Supply of Materials

 Details regarding the lifting, transportation, and unloading of consumables and related technical materials are specified and explained under the subheading General Site Rules.

PPE - 0	GENERAL	Need for Trained Personnel
•	HELMET TS EN 397+A1 EARPLUGS TS EN 352-2 PROTECTIVE GOGGLES TS EN ISO 16321-3 GENERAL PURPOSE WORK GLOVES TS EN ISO 21420	MECHANICAL ENGINEER ELECTRICAL ENGINEER CIVIL ENGINEER ARCHITECT SCAFFOLDING ASSEMBLER LEVEL 3 (12UY0056-3)
•	WORK SHOES TS EN ISO 20347 HALF FACE MASK TS EN 140 FULL BODY SAFETY HARNESS EN 361 ROPE BRAKING SYSTEM EN 353 SAFETY HOOK EN 362 FALL ARRESTER SAFETY ROPES EN 355	ELECTRICAL INSTALLER LEVEL 3 (15UY0241-3) HEATING AND NATURAL GAS INTERNAL INSTALLATION PERSONNEL LEVEL 3 (11UY0031-3) BRICKLAYER LEVEL 3 (12UY0048-3) PLASTERER LEVEL 3 (11UY0024-3) GYPSUM PLASTER APPLICATOR LEVEL 3 (12UY0055-3) CERAMIC TILE INSTALLER LEVEL 3 (12UY0051-3) CONSTRUCTION PAINTER LEVEL 3 (11UY0023-3) CONSTRUCTION WORKER LEVEL 2 (16UY0253-2)

Table 16 - Risk Analyses

TASK	SOURCE OF HAZARD	RISKS	MEASURE
Natural Gas Line Interventions	Gas Leak and Explosion	Trauma Severe burns Limb loss Death	 Before excavation, it must be verified through İGDAŞ that there are no natural gas pipelines in the area. Natural gas pipelines must be shut off prior to intervention and safeguarded using the LOTO (Lockout Tagout) system. Interventions on existing pipelines or new installations shall be conducted under the supervision of a Natural Gas Infrastructure Construction Control Personnel Level 4 (12UY0042-4). Personnel involved must wear safety shoes, protective goggles, helmet, dust mask, and earplugs. The work area shall be cordoned off with safety tapes and the riskS shall be visibly posted with warning signs.
Wall Demolition	Being trapped under heavy load Electric shock	Crushing Trauma Electric shock	 The risk of electrical wiring within structural elements to be demolished must be taken into consideration. The power supply to the area must be cut; the power needs of breakers, drills, etc. must be met from other lines. In the case of power cut, LOTO (Lockout-Tagout) rules must be applied. Before starting the work, the presence of sockets, switches, commutators, junction boxes, etc. on the wall must be checked, and dismantling of equipment and cables must be carried out in accordance with the instructions of the Electrical Engineer. Before demolition, it must be confirmed with a phase voltage detector that there is no power at sockets, junction boxes, and switches. All breaking and drilling equipment to be used must have passed PAT tests and confirmed to be electrically safe. Necessary care must be taken to ensure that electrical extension cables are not damaged and do not come into contact with water. Extension cables and other electrical device power cords must be checked daily. Damaged cables are not allowed to be used. The opposite sides of the walls to be demolished must be separated with safety barriers and warning signs must be installed. Walls must not be demolished as a whole but must be demolished in a controlled manner in parts. Personnel on duty must wear work shoes, protective goggles, helmets, dust masks, and earplugs.

TASK	SOURCE OF HAZARD	RISKS	MEASURE
Wall demolition	 Falling of heavy objects from height. Falling of workers from height. 	Head and body trauma Death	The building perimeter shall be separated with safety barriers and warning signs. High-risk areas where wall debris may fall shall be identified before the work begins and shall be monitored by responsible personnel. Personnel involved in wall demolition shall use full body harnesses and fall arrest equipment. These safety devices shall be attached to lifelines anchored to secure structures. (Such personnel must receive working-atheight training.) The demolished wall sections shall be secured with temporary guardrails and warning tape/signage until new walls are installed. If night work is to be carried out, these tapes and signs must be reflective. All personnel involved must wear safety shoes, protective goggles, helmets, dust masks, and earplugs.
Perimeter opening around shear walls and column jackets	Construction machinery (Concrete breaker, excavator)	 Injury due to collision during maneuvering of construction machinery. Limb entrapment or cuts during machine adjustment or part replacement . 	 The suitability of the construction machinery must be verified with a periodic inspection report. efore starting the construction machinery, the operator must visually inspect it and evaluate any physical defects. Construction machinery must be functionally inspected by the operator before each use. (e.g., reverse maneuver warning siren, warning/alert lights, etc.) The construction machinery may only be operated by an authorized operator. Operator's vocational qualification certificates must be checked and verified. No personnel other than authorized personnel and experts (e.g., operator, mechanical engineer) are allowed to intervene with the construction machinery. The working area of the construction machinery must be demarcated with safety tapes, and it must be clearly indicated by warning signs that approaching the machinery is prohibited. Personnel involved must wear safety shoes, protective goggles, helmets, dust masks, and ear protection.
Perimeter opening around shear walls and column jackets	Pit	Injury resulting from falling into the pit.	Warning tapes and signs must be installed around the excavated areas. If work is carried out at night, these tapes and signs must be reflective.

TASK	SOURCE OF HAZARD	RISKS	MEASURE
TASK Driving anchor rods into existing columns, beams, and foundation	Rusty metal Sharp, pointed edges Use of electrical tools	RISKS - Serious trauma due to cuts and punctures - Tetanus - Respiratory ailments - Foreign bodies/small particles in the eyes Electric shock	MEASURE All electric equipment used in drilling and rebar cutting must undergo PAT testing and be verified as electrically safe. Extension cords and equipment power cables must be physically protected. Cables should not be left lying loosely on the ground, and wheelbarrows or workers must not be allowed to pass over them. Cables must not be left in puddles. Electrical equipment must be visually inspected before use, and any device with physical defects must be removed from service. Areas where anchor rods are installed must be marked with warning tapes and signs. If work is performed at night, such tapes and signs must be reflective. Workers must be vaccinated against tetanus. (The Workplace Physician should inform employees during training about infections and tetanus risks caused by rusty metals.) All employees must use appropriate protective gloves. The necessity of an eye wash station against dust and chemical exposure must be determined by the Workplace Physician. Personnel handling reinforcement steel must hold the Reinforced Concrete Steel Fixer Level 3 (11UY0012-3) certificate. Sharp, pointed edges must be beveled using appropriate cutting tools or grinders. Unbeveled sharp ends must be
			fitted with rubber bumpers. Personnel on duty must wear safety shoes, protective goggles, helmet, dust mask, and ear protection.
Driving anchor rods into existing columns, beams, and foundation	Epoxy adhesives	 Ailments caused by chemical contact. 	 MSDSs of epoxy adhesives must be checked by workplace physicians, and employees must be informed (volatile properties, eye contact, etc.). The necessity of an eye wash station against dust and chemical use must be determined by the workplace physician.

TASK	SOURCE OF HAZARD	RISKS	MEASURE
Placement of reinforcement elements	Metal, cutting, bending Rusty metal Sharp, pointed parts Use of electrical tools	Serious trauma due to cuts or punctures Limb entrapment Tetanus Respiratory disorders Entry of debris/small particles into the eye Electric shock	all electrical equipment be subjected to PAT tests and verified to be electrically safe. Extension cords and power cables must be physically protected. Cables must not be left loosely on the ground, nor should wheelbarrows or workers be allowed to pass
Placement of reinforcement elements	Temporary work scaffold	Fall from height Traumas caused by impact from falling objects from height	 It is essential that all scaffolds to be erected, regardless of their size, comply with the requirements of the TS EN 12811-1 standard. All personnel working on said scaffolds must have received working at height training and must use full-body safety harnesses and fall arrest equipment. Personnel assigned to the task are required to use safety shoes, protective goggles, helmet, dust mask, and ear protection.

TASK	SOURCE OF HAZARD	RISKS	MEASURE
Concrete batching plant	Temporary work scaffold Use of electrical equipment Use of chemical substances	 Fall from height Traumas caused by impact from falling objects from height Health issues due to chemical exposure Electric shock 	 Personnel assigned to formwork operations must hold the Carpenter — Timber Formwork Level 3 (11UY0011-3) certificate. Personnel assigned to concrete casting operations must hold the Concrete Worker Level 3 (12UY0049-3) certificate. It is essential that all scaffolds to be erected, regardless of their size, comply with the requirements of the TS EN 12811-1 standard. All personnel working on said scaffolds must have received working at height training and must use full-body safety harnesses and fall arrest equipment. All electrical equipment such as vibrators must be subjected to PAT tests and verified to be electrically safe. Extension cords and power cables must be physically protected. Cables must not be left loosely on the ground, nor should wheelbarrows or workers be allowed to pass over them. Cables must not be left in puddles. Material Safety Data Sheets (MSDS) of repair mortars and similar materials must be reviewed by Workplace Physicians and workers must be informed (regarding inhalation, eye contact, etc.). Personnel assigned to the task are required to use safety shoes, protective goggles, helmet, dust mask, and ear protection.
Wall construction	 Heavy load handling Chemical substances Temporary work scaffold 	 Orthopedic disorders Health issues due to chemical exposure Fall from height Traumas caused by impact from falling objects from height 	 Personnel assigned to wall construction must hold the Bricklayer Level 3 (12UY0048-3) certificate. It is essential that all scaffolds to be erected, regardless of their size, comply with the requirements of the TS EN 12811-1 standard. All personnel working on said scaffolds must have received working at height training and must use full-body safety harnesses and fall arrest equipment. Material Safety Data Sheets (MSDS) of mortar and similar materials must be reviewed by Workplace Physicians, and workers must be informed (regarding inhalation, eye contact, etc.). Personnel assigned to the task are required to use safety shoes, protective goggles, helmet, dust mask, and ear protection.

TASK	SOURCE OF HAZARD	RISKS	MEASURE
Electrical installation	 Temporary work scaffold Electricity 	 Fall from height Traumas caused by impact from falling objects from height Electric shock 	 Personnel working on electrical installations must at minimum hold the Electrical Installer Level 3 (15UY0241-3) certificate. Personnel performing electrical panel and board installations must at minimum hold the Electrical Panel Installer Level 3 (12UY0075-3) certificate. All electrical works shall be carried out under the supervision of a responsible Electrical or Electrical-Electronics Engineer. Torque-controlled screwdrivers and fastening tools must be used during electrical panel/board installation. Appropriate torque values must be predetermined based on the type of switchgear or screw/nut sizes and communicated to responsible personnel. All personnel involved must use insulated electrical gloves and work shoes suitable for low voltage safety limits. The compliance of such PPE must be specifically verified by the OHS Specialist based on relevant standards and CE markings. It is essential that all scaffolds to be erected, regardless of their size, comply with the requirements of the TS EN 12811-1 standard. All personnel working on said scaffolds must have received working at height training and must use full-body safety harnesses and fall arrest equipment.
Lighting fixture installation	 Temporary work scaffold Electricity 	 Fall from height Traumas caused by impact from falling objects from height Electric shock 	 Personnel performing the work must, at minimum, hold the Electrical Installer Level 3 (15UY0241-3) certificate. Before installing the lighting fixture, the relevant line must be deenergized via the switchgear and secured using the LOTO system. Before dismantling, it must be verified using control devices such as a phase voltage detector that power has been cut at switches, commutators, etc., where electrical energy was previously supplied. It is essential that all scaffolds to be erected, regardless of their size, comply with the requirements of the TS EN 12811-1 standard. All personnel working on said scaffolds must have received working at height training and must use full-body safety harnesses and fall arrest equipment. All assigned personnel must use electrically insulated gloves and work shoes suitable for low voltage safety limits. The compliance of such PPE must be specifically verified by the OHS Specialist based on relevant standards and CE markings.

TASK	SOURCE OF HAZARD	RISKS	MEASURE
Gypsum plaster application	Temporary work scaffold Chemical substance Electricity	 Fall from height Traumas caused by impact from falling objects from height Electric shock Health issues due to chemical exposure 	 Personnel performing gypsum / plaster works must hold the Gypsum Plaster Applicator Level 3 (12UY0055-3) certificate. It is essential that all scaffolds to be erected, regardless of their size, comply with the requirements of the TS EN 12811-1 standard. All personnel working on said scaffolds must have received working at height training and must use full-body safety harnesses and fall arrest equipment. All electrical equipment, such as inspection lights and mixers, must be subjected to PAT tests and verified to be electrically safe. Extension cords and power supply cables must be physically protected. Cables must not be left loosely on the ground, nor should wheelbarrows or workers be allowed to pass over them. Cables must not be left in puddles. Material Safety Data Sheets (MSDS) for repair mortars, gypsum, plaster, and similar materials must be reviewed by Workplace Physicians, and workers must be informed (regarding inhalation, eye contact, etc.). Personnel assigned to the task are required to use safety shoes, protective goggles, helmet, dust mask, and ear protection.

TASK	SOURCE OF HAZARD	RISKS	MEASURE
Painting	Temporary work scaffold Chemical substance Electricity Temporary work scaffold The	 Fall from height Traumas caused by impact from falling objects from height Electric shock Health issues due to chemical exposure 	 Personnel assigned to painting works must hold the Construction Painter Level 3 (11UY0023-3) certificate. It is essential that all scaffolds to be erected, regardless of their size, comply with the requirements of the TS EN 12811-1 standard. All personnel working on said scaffolds must have received working at height training and must use full-body safety harnesses and fall arrest equipment. All electrical equipment, such as inspection lighting and mixers, must be subjected to PAT tests and verified to be electrically safe. Extension cords and power cables must be physically protected. Cables must not be left loosely on the ground, nor should wheelbarrows or workers be allowed to pass over them. Cables must not be left in puddles. Material Safety Data Sheets (MSDS) for repair mortars, paint, solvents, and similar materials must be reviewed by Workplace Physicians, and workers must be informed (regarding inhalation, eye contact, etc.). Personnel assigned to the task are required to use safety shoes, protective goggles, helmet, dust mask, and ear protection.
Ceramic tile and similar flooring works	 Chemical substance Electricity 	Electric shock Health issues due to chemical exposure	 Personnel assigned to ceramic tile works must hold the Ceramic Tile Installer Level 3 (12UY0051-3) certificate. All electrical equipment such as mixers, breakers/drills must be subjected to PAT tests and verified to be electrically safe. Extension cords and power supply cables must be physically protected. Cables must not be left loosely on the ground, nor should wheelbarrows or workers be allowed to pass over them. Cables must not be left in puddles. Material Safety Data Sheets (MSDS) for adhesives and similar materials must be reviewed by Workplace Physicians, and workers must be informed (regarding inhalation, eye contact, etc.). Personnel assigned to the task are required to use safety shoes, protective goggles, helmet, dust mask, and ear protection.

TASK	SOURCE OF HAZARD	RISKS	MEASURE
Mechanical installation	Electricity	Electric shock	 Personnel assigned to mechanical installation works must, at minimum, hold the Heating and Natural Gas Indoor Installation Technician Level 3 (11UY0031-3) certificate. All electrical equipment must be subjected to PAT tests and verified to be electrically safe. Extension cords and power supply cables must be physically protected. Cables must not be left loosely on the ground, nor should wheelbarrows or workers be allowed to pass over them. Cables must not be left in puddles. Personnel assigned to the task are required to use safety shoes, protective goggles, helmet, dust mask, and ear protection.

8.1.2 Energy Efficiency

The renovation items focused on energy efficiency are listed below:

- Electricity generation through the PV system installed above the roofs of the buildings.
- Layout plans for the PV installation are presented below for your review.

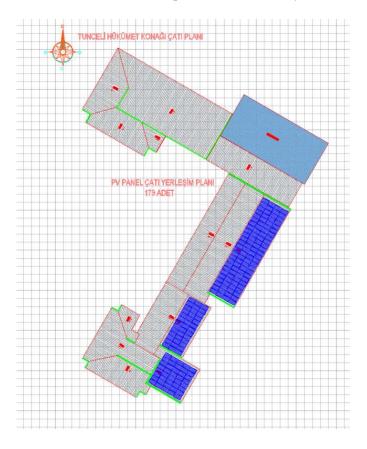


Figure 19 - Tunceli Government House Roof PV Layout



Figure 20 - Provincial Directorate of Environment, Urbanization and Climate Change Building Roof PV Layout



Figure 21 - Tunceli Cultural Center Roof PV Layout

- All works must be carried out under the supervision of a certified Electrical or Electrical-Electronics Engineer.
- All personnel involved must have received working at height training.
- All personnel involved must use full-body safety harnesses and fall arrest equipment.
- For the attachment of fall arrest equipment, the installation of horizontal lifelines on roofs is required.



Figure 22 - Representative Image of a Movement Restraint System

- The truck and mobile crane to be used for transporting all panels must operate in accordance with the traffic action plan.
- During lifting and handling operations with the mobile crane, the lifting path must be secured (access to areas with fall hazards must be restricted).
- Inspection reports for the mobile crane, lifting eyes, and slings must be checked and their compliance verified.
- The operator's license of the personnel operating the mobile crane must be checked and validated
- Personnel installing guide ropes and carrier slings must hold the Signalman Level 2 (15UY0218-2) and Slinging Training certificates.
- All electrical hand tools (e.g., mobile concrete mixer, vibrator, concrete pump, etc.) must have undergone PAT testing. PAT test reports must be requested and verified before work begins. During site inspections, the presence of PAT inspection and approval labels on electrical devices will be checked. Devices and equipment without compliance labels shall not be allowed for use (extension cords are also included).
- Personnel working on electrical installations must at minimum hold the Electrical Installer Level 3 (15UY0241-3) certificate.
- Personnel performing electrical panel and board installations must at minimum hold the Electrical Panel Installer Level 3 (12UY0075-3) certificate.
- Torque-controlled screwdrivers and fastening tools must be used during electrical panel/board installation. Appropriate torque values must be predetermined based on the type of switchgear or screw/nut sizes and communicated to responsible personnel.
- The grounding line of the electrical system must be documented by certified Electrical or Electrical-Electronics Engineers.
- To prevent electric shock, insulated work gloves (suitable for low voltage conditions) and insulated work shoes must be used. A construction safety net is a net system used in construction areas to prevent the fall of persons or materials. This protective measure must comply with TSE 1263-1 and TSE 1263-2 standards in terms of raw materials, manufacturing method, and application. Safety nets are among the most effective collective protection measures as passive fall arrest systems.

- Installation can be performed horizontally, vertically, or at an angle depending on the area of application.
- Personnel performing the installation must possess technical knowledge regarding angular values, selection of attachment points, and placement of the net.

Table 17 - Control Table for Parking Lot PV Works

Task:	Task: Installation of the Photovoltaic Energy System			
WORK METHOD				
Technical Description and				
Requirements				
Construction Technique and				

Technology

- PV panels, solar inverters, and structural support components will be transported to the site by trucks. All equipment will be securely fastened to the truck in a safe manner. After anchoring the base components of the support structure to the ground, the upper structure will be assembled. Panels transported to the parking lot area by mobile crane will be fixed to the structure in accordance with the project specifications. Energy and grounding cables will be connected via connectors to the main panel-mounted inverter and solar panel. Finally, testing, commissioning, and acceptance will be carried out.
- Truck
- Mobile crane
- Load handling equipment (lifting eyes, slings, hooks, chains)
- Torque wrench
- Cordless drill
- Screwdriver set
- Multimeter
- Cable cutting and stripping hand tools (cutter, pliers, needle-nose pliers, etc.)
- Silicone gun

Use of Chemical Substances

Silicone

Access to the Work Area

- The access route is presented in the form of a layout under the General Construction Technique section.
 - The maximum speed limit for trucks within the campus is restricted to 20 km/h.
 - The maximum speed limit for mobile cranes within the campus is restricted to 20 km/h.

PP	PPE – GENERAL		ed for Trained Personnel
1. 2. 3. 4. 5. 6. 7. 8.	EN 397 Safety Helmet EN 420 Insulated Gloves EN 345 Insulated Safety Shoes (200J) EN 340 General Workwear Full Body Safety Harness (EN 361) Rope Fall Arrest System (EN 353) Safety Hook (EN 362) Fall Arrest Lanyard (EN 355)	1. 2. 3. 4. 5.	Electrical-Electronics Engineer Truck Driver with Class C Driver's License Mobile Crane Operator (Qualification Code: 13UY0172-3 Level 3) Signalman (Qualification Code: 15UY0218-2 Level 2) Electrical Panel Installer (Qualification Code: 12UY0075-3 Level 3)

Table 18 - Risk Analysis for Parking Lot PV Installation

TASK	HAZARD	RISK	MEASURE
Material Transport	Truck	Injury or fatality due to traffic accident	 Trucks shall be operated by personnel holding a Class C driver's license. The urban speed limit (50 km/h) shall not be exceeded. The speed limit within the campus area is restricted to 20 km/h. On-site movements and maneuvers shall be monitored by the OHS Specialist.
Material Transport	PV panels and mounting components	Injury or fatality due to tipping over of PV panels or components	 All materials shall be placed in a balanced manner at the center of the truck bed, taking into account their center of gravity. Units shall be secured with slings. Mounting components shall be transported packaged on pallets. The side and rear gates of the truck shall be closed and secured.
Material transport and unloading	Mobile Crane & lifting equipment	Injury or fatality due to dropped load during lifting, transporting, or unloading	 The crane shall be operated only by a certified Mobile Crane Operator (Qualification Code: 13UY0172-3 Level 3). Slings and load guidance shall be performed by certified signalmen. The crane's periodic inspection report shall be checked and verified by the OHS Specialist prior to work. (It must be issued within a maximum of 6 months.) The periodic inspection reports for slings, chains, lifting eyes, and hooks shall be checked and verified by the OHS Specialist prior to work. (It must be issued within a maximum of 6 months.) Slings, lifting eyes, and hooks shall be visually inspected before work. Load capacity and physical condition must be verified. The hydraulic stabilizing legs of the mobile crane shall be fixed securely to the ground. Prior to lifting, the main boom angle of the mobile crane and its corresponding lifting capacities must be checked. The load shall be guided by the signalman using a guide rope. Access to the work area shall be restricted during lifting and transport operations. Passing under suspended loads is strictly prohibited. Warning signs shall be installed. All operations shall be subject to the WORK PERMIT SYSTEM.

TASK	HAZARD	RISK	MEASURE
Assembly works	Working at height	Fall from height, falling materials	 T-type safety nets or edge protection guardrails shall be installed to prevent falls of large components and personnel from the structure.
			 In accordance with TS EN 1263-2 standard, the width of T-type safety nets must be at least 2 meters, and the maximum vertical installation height must be 1 meter. This is important to prevent sagging of the net, which can reduce its effectiveness.
			 The durability of the safety nets, the type of material used, and the installation method must comply with applicable standards.
			 Safety nets shall undergo periodic inspections.
			 Before starting work, workers must receive training on Rope Access for Work at Height, Use of Safety Nets, and Identification of Damages in Safety Nets. These trainings must be conducted by experts holding at minimum an IRATA (Industrial Rope Access Trade Association) International Level 2 Certificate.
			 While working on the parking structure, particularly within 1 meter of the edge line where fall risks are higher, movement restraint systems (horizontal lifelines) shall be used.
			 Materials to be assembled shall not be stored near edges. When not in use, loose materials must be secured with fixing netting.
			 During panel installation, all entries and exits to the parking area shall be physically restricted. The assembly zone shall be clearly marked with physical barriers, and access by workers and third parties shall be prohibited.
Assembly Works	Elevated platforms (Boom lifts & mobile scaffolds)	 Injury or fatality due to dropped load during lifting or handling operations 	 The crane shall be operated only by a certified Mobile Crane Operator (Qualification Code: 13UY0172-3 Level 3).
			 Slings and load guidance shall be carried out by certified signalmen.
			 The crane's periodic inspection report shall be checked and verified by the OHS Specialist prior to the operation. (It must be obtained within a maximum period of 6 months.)
			 The periodic inspection reports for slings, chains, lifting eyes, and hooks shall be checked and verified by the OHS Specialist prior to the operation. (It must be obtained within a maximum period of 6 months.)
			 Slings, lifting eyes, and hooks shall be visually inspected before work. Load capacity and physical condition must be confirmed.
			 The hydraulic stabilizing legs of the mobile crane shall be securely anchored to the ground.
			 Prior to the lifting operation, the crane's boom angle and the corresponding lifting capacity for that angle shall be verified.
			The load shall be guided by the signalman via a guide rope.
			 During lifting and handling operations, access to the work area shall be restricted. Passing under suspended loads is strictly prohibited.
			 The platform shall be placed on a flat and stable surface, overloading shall be prevented,

			 and the area around the platform shall be isolated. Mechanical checks of the platform shall be performed before each use. Warning signs shall be installed. All works shall be subject to the WORK PERMIT SYSTEM.
Cutting and restoring power via electrical panel	Power panel, line cable	Electric shock during work carried out inside the panel	 Intervention on the panel shall be carried out by at minimum a certified Electrical Panel Installer (Qualification Code: 12UY0075-3 Level 3), under the supervision of an Electrical or Electrical-Electronics Engineer. During electrical works, 1kV insulated gloves compliant with EN 60903:2003, insulated electrician safety shoes compliant with EN 344, and an insulated mat or platform compliant with EN 60243-1 shall be used. Work shall be conducted by at least two
			technical personnel. These individuals shall not come into physical contact with each other during the operation. Technical personnel assigned to this task shall receive training and participate in drills regarding the effects of electric shock and first aid response.
PV Panel and Structure Assembly	Assembly works	Limb cuts or crush injuries during assembly of PV panels and supporting structures	 PV panel and structure assembly shall be carried out by a certified Machinery Installer (Qualification Code: 12UY0105-3 Level 3). During the assembly process, safety helmets and general-purpose protective work gloves shall be used to prevent head and hand injuries.

• Replacement of the three boilers in the Heating Center by reducing their capacity (as economizer-equipped boilers)

The work method describing the dismantling and removal of the existing boilers, their transportation outside the building, as well as the transportation, indoor transfer, and installation of the new boilers, shall be prepared by the Contractor and submitted for the Engineer's/Consultant's approval. The works may commence only after the method statement has been approved. The key elements and critical considerations regarding the boiler installation process are listed below.

- All works must be carried out under the supervision of a competent Mechanical Engineer.
- A method for dismantling, removing, and delivering the existing boiler to the university must be defined.
- The truck used for transporting the new boiler must operate in accordance with the traffic action plan.
- The route to be used for removing the dismantled boiler and bringing in the new boiler must be specified in the construction method. (If wall demolition and reconstruction are required, the personnel involved must hold a Bricklayer Level 3 (12UY0048-3) certificate.)
- Personnel involved in the mechanical installation process must hold, at minimum, the Heating and Natural Gas Indoor Installation Technician Level 3 (11UY0031-3)
- The suitability of equipment used for lifting and transporting the boiler indoors must

be verified through periodic inspection reports issued by Authorized Mechanical Engineers.

- During the renovation process, the heating center area must be cordoned off with warning tape to prevent unauthorized personnel access.
- Personnel performing electrical installation and panel assembly must, at minimum, hold the Electrical Panel Installer Level 3 (12UY0075-3) certificate.
- The grounding line of the electrical system must be documented by authorized Electrical or Electrical-Electronics Engineers.
- To prevent electric shock, insulated work gloves (suitable for low voltage conditions) and insulated work shoes must be used.

Table 19 - Control Table for KASKAD-Type Sectional Condensing Premix Floor-Standing Boiler System Installation

Task:	Natural gas boiler installation.	
WORK METHOD		
Technical Description and		
Requirements		
Construction	Technique and	

Technology

The existing boiler will be dismantled, and a smaller-sized boiler will first be mounted on the wall.
 Subsequently, connections for the natural gas line, supply and return hot water manifolds, valves, and related equipment will be completed.

Use of Work Equipment

- Truck
- Mobile crane
- Load handling equipment (lifting eyes, slings, hooks, chains)
- Torque wrench
- Cordless drill
- Screwdriver set
- Multimeter
- Cable cutting and stripping hand tools (cutter, pliers, needle-nose pliers, etc.)
- Mechanical installation tools (pipe cutting, bending)

Use of Chemical Substances

- Cleaning chemicals
- Mechanical system oils

Access to the Work Area

- The access route is provided in the form of a layout under the General Construction Technique section.
 - The maximum speed for trucks within the campus is limited to 20 km/h.
 - The maximum speed for mobile cranes within the campus is limited to 20 km/h.

PPE	– GENERAL	Need for Trained Personnel	
1.	EN 397 Safety Helmet	1. Mechanical Engineer	
2.	EN 420 General Purpose Gloves	2. Truck Driver with Class C Driver's License	
3.	EN 345 Safety Shoes (200J)	3. Mobile Crane Operator (Qualification Code: 13UY0172-3 Level 3)	
4.	EN 420 Insulated Gloves	4. Signalman (Qualification Code: 15UY0218-2 Level 2)	
5.	EN 345 Insulated Work Shoes (200J)	5. Heating and Natural Gas Indoor Installation Technician Level 3 (11UY0031-3)	
6.	EN 340 General Workwear	6. Electrical Panel Installer (Qualification Code: 12UY0075-3 Level 3)	

Table 20 - Risk Assessment for Economizer-Equipped Boilers

TASK	HAZARD	RISK	MEASURE
Material Transport	Truck	Injury or fatality due to traffic accident	 The truck shall be operated by personnel holding a Class C driver's license.
			 The urban speed limit (50 km/h) shall not be exceeded.
			 The speed limit within the building campus area is restricted to 20 km/h. On-site movement and maneuvers shall be supervised by the OHS Specialist.
Material Transport	PV Panels and Mounting	Injury or fatality due to tipping over of PV panels	 in a balanced manner at the center of the truck bed, taking the center of gravity into account.
	Components	or components	 Units shall be secured with slings.
			 Mounting components shall be transported packaged on pallets.
			 The side and rear gates of the truck shall be closed and securely fastened.
Material Transport and Unloading	Mobile Crane & Lifting Equipment	Injury or fatality due to dropped load during lifting,	 The crane shall only be operated by a certified Mobile Crane Operator (Qualification Code: 13UY0172-3 Level 3).
		transport, or unloading	 Slings and load guidance shall be performed by certified signalmen.
			 The crane's periodic inspection report shall be checked and verified by the OHS Specialist before operation. (The report must be issued within a maximum of 6 months.)
			 Periodic inspection reports for slings, chains, lifting eyes, and hooks shall be checked and verified by the OHS Specialist before operation. (The report must be issued within a maximum of 6 months.)
			 Slings, lifting eyes, and hooks shall be visually inspected prior to use. Load capacity and physical condition shall be confirmed.
			 The mobile crane's hydraulic stabilizing legs shall be securely fixed to the ground.
			 Before the lifting operation, the crane boom angle and corresponding lifting capacities for that angle shall be checked.
			 The load shall be guided by the signalman using a control rope.
			 Access to the work area shall be restricted throughout the lifting and transport operation. Passing under suspended loads is strictly prohibited.
			 Warning signs shall be installed.
			 All operations shall be subject to the WORK PERMIT SYSTEM
Cutting the Natural Gas Line	Natural Gas	Fire, explosion, and ignition	 The natural gas line must be shut off prior to dismantling and secured using the LOTO (Lockout-Tagout) system.
			 The absence of natural gas must be confirmed using gas detection devices.
			 After the new line connections are completed, gas must be restored in compliance with LOTO procedures. After opening the gas valves, the system must be checked for leaks using gas detection devices.

TASK	HAZARD	RISK	MEASURE
Cutting and Restoring Power via Electrical Panel	Power Panel, Line Cable	Electric shock during panel work	 The panel intervention shall be carried out by a certified Electrical Panel Installer (Qualification Code: 12UY0075-3 Level 3).
			 During electrical works, 1kV insulated gloves compliant with EN 60903:2003 and insulated electrician safety shoes compliant with EN 344 shall be used; an insulated mat or platform compliant with EN 60243-1 shall be placed on the ground.
			 Works shall be performed by a minimum of two technical personnel. These individuals shall not come into physical contact with each other during the operation. Technical personnel assigned to this task shall be trained on the effects of electric shock and first aid response, and participate in practical drills.
			and paracepate in practical arisis.

- Renewal of the heating pumps located in the Heating Center with high-efficiency pumps (Variable-Speed Pumps) Renewal of Mechanical Installations
 - Personnel who will carry out motor line and panel switchgear equipment connections shall, at minimum, hold the Electric Panel Assembler Level 3 (12UY0075-3) qualification certificate.
 - During electrical panel/board assembly, torque-controlled screwdrivers and tightening tools shall be used. Appropriate tightening torques shall be predetermined according to the type of switchgear equipment or the size of the bolt/nut and communicated to the responsible personnel.
 - Insulated work gloves (suitable for low-voltage conditions) and insulated safety shoes shall be used to protect against electric shock.
 - The LOTO (Lockout/Tagout) system shall be used to ensure panel safety.
 - All personnel responsible for lifting and carrying heavy loads shall have received manual handling and lifting training.

Table 21 - Control Table for Building Circulation Pump Replacement Works

Task	Replacement of Heating Pumps with Variable-Speed Pumps	
WORKING METHOD		
Technical Description and		
Requirements –		
Construction Technique and		

Technology

- The power supply to the existing motor will be disconnected. Using appropriate screwdrivers and tightening tools, the electrical connections will first be removed, followed by the removal of the mounting connections, after which the unit will be placed on the floor in a stacked/secured position. The pumps will be dismantled using appropriate hand tools, removed from their position, and stacked on the floor. The motor–pump assembly will be fixed to the pipeline in accordance with the project design, and the electrical connections will be completed as specified by the manufacturer.
- During panel assembly, appropriately sized ferrules shall be used, and no live wire ends shall be left exposed.

Use of Work Equipments

- Multimeter
- Electric hand tools (pliers, test pen, screwdriver, etc.)

Use of Chemical Substance

– No chemical use is anticipated.

Access to Working Area

– The Heating Center is located inside the building.

Transportation of Materials

- Materials will be carried manually (manual handling training must be provided).

PPE – GENERAL	Qualified Personnel Requirement
1 EN 397 Safety Helmet	Electric Panel Assembler (Qualification Code: 12UY0075-3 Level 3)
2 EN 420 Insulated Gloves	
3 EN 345 Insulated Safety Shoes (200 J)	
4 EN 340 General Workwear	

Table 22 - Risk Analysis for Building Circulation Pump Replacement Works

TASK	HAZARD	RISK	MEASURE
Cutting the line power from the electrical panel	Cutting the line power from the electrical panel	Cutting the line power from the electrical panel	■ Panel intervention shall be carried out by a Certified Electric Panel Assembler (Qualification Code: 12UY0075-3 Level 3) under the supervision of an Electrical / Electrical-Electronics Engineer. ■ During electrical works, 1 kV insulated gloves (EN 60903:2003) and insulated electrician's safety shoes (EN 344) shall be used; an insulated mat or platform (EN 60243-1) shall be placed beneath the worker. ■ The work shall be performed by at least two technical personnel, and they shall avoid physical contact with each other during the task. ■ Technical personnel shall receive training on electric shock hazards and first response, and a practical drill shall be conducted.
Re-energization after installation	Re- energization after installation	Re-energization after installation	 Panel intervention shall be carried out by a Certified Panel Assembler (Qualification Code: 12UY0075-3

- Replacement of non-LED luminaires with high-efficiency LED luminaires of the same size.
 - Personnel involved in luminaire replacement must hold, at minimum, the Electrical Installer Level 3 certificate (15UY0241-3).
 - To prevent electric shock, insulated gloves (suitable for low voltage conditions) and insulated safety shoes must be used.
 - Personnel performing internal panel connections must hold the Electrical Panel Installer certificate (12UY0075-3 | Level 3).
 - Use of the LOTO (Lockout-Tagout) system is required for panel safety.
 - If the lighting circuit's protective fuse is not labeled, labeling must be performed.
 - Mobile scaffolds must comply with TS EN 12811-1 standards. All personnel working on these scaffolds must have received working at height training and must use full-body safety harnesses and fall arrest equipment.
 - Personnel responsible for scaffold installation must hold the Scaffold Installation Operator Level 3 certificate (12UY0056-3).



Figure 23 - Mobile Scaffold Sample Illustration

Table 23 - Plan for the Completion of LED Conversion of Existing Lighting Fixtures

Task:	sk: Completion of the LED Conversion of Existing Lighting Fixtures		
WORK METHOD			
Technical Description and			

Requirements

Construction Technique and

Technology

- The power supply to the lighting fixture shall be cut off via the column and circuit line, and verified using a multimeter.
- Mounting screws of the existing lighting fixture shall be removed. Once the fixture is free, the terminal connections shall be exposed.
- The cable power connection shall be disconnected from the terminals using appropriately headed screws. The cable shall be visually inspected and made suitable for the new fixture connection.
- The new fixture shall be connected through the terminal block, the connection strength shall be checked manually, and the fixture shall be mounted to the ceiling using the mounting elements provided by the manufacturer.

Use of Work Equipment

Electrical hand tools (pliers, voltage tester, screwdriver, etc.), H-type or L-type mobile scaffold

Use of Chemical Substances

- No use of any chemical substances is foreseen.
 - The newly supplied LED luminaires will be installed.

Access to the Work Area

The work area is located at various points inside the building. Internal building access routes will be used.

Material Transport

Materials will be carried by hand.

KKD – GENEL	Need for Trained Personnel
1. EN 397 Safety Helmet	1. ELECTRICAL INSTALLER LEVEL 3 (15UY0241-3)
2. EN 420 Insulated Electrical Gloves	2 .ELECTRICAL PANEL INSTALLER (Qualification Code: 12UY0075-3 Level 3)
3. EN 345 Insulated Work Shoes	3)
4. EN 340 General Workwear	
5. Full-Body Safety Harness (EN 361)	
6. Rope Fall Arrest System (EN 353)	
7. Safety Hook (EN 362)	
8. Fall Arrest Lanyard (EN 355)	

Table 24 - Risk Analysis for the Completion of LED Conversion of Lighting Fixtures

TASK	HAZARD	RISK	MEASURE
Cutting Power via Electrical Panel	Power Panel, Line Cable	Injury or fatality due to electric shock caused by unauthorized re- energizing by others or technical issues	 Panel intervention shall be carried out by a certified Electrical Panel Installer (Qualification Code: 12UY0075-3 Level 3) under the supervision of an Electrical or Electrical-Electronics Engineer. After the power is cut, the absence of voltage in the neutral and grounding lines shall be confirmed using a multimeter. The panel in question shall be locked and tagged in
			 accordance with LOTO (Lockout-Tagout) procedures. Prior to disconnection of devices and making new connections, it shall be reconfirmed with a multimeter that there is no power.
Dismantling and Installation	Scaffold	Fall from height, Falling materials	 An H-type or L-type mobile scaffold shall be erected. The scaffold must comply with TS EN 1004-19 standards. Scaffold installation shall be performed by personnel certified as Scaffold Installation Operator (Qualification Code: 12UY0056-3 Level 3).
			 The installed mobile scaffold must be secured before work begins using the stabilizing components provided by the manufacturer. Working while the scaffold is in motion is strictly prohibited.
			 Completed scaffold installations shall be inspected and approved by the Site OHS Specialist. Use of unapproved mobile scaffolds is prohibited.
			 The scaffold must display signage indicating the maximum load capacity and warning signs.
			 Toe boards shall be installed on the scaffold to prevent falling materials.
Dismantling, Installation, and Re-Energizing	Power panel, line cable	Electric shock during work inside the panel	 The dismantling and installation of luminaires shall be carried out by technical personnel holding the ELECTRICAL INSTALLER LEVEL 3 (15UY0241-3) qualification certificate.
			 Prior to dismantling, the absence of electric current shall be verified using a multimeter. During this verification, not only the phase lines but also the grounding and neutral lines shall be checked.
			 Panel intervention shall be performed by a certified ELECTRICAL PANEL INSTALLER (Qualification Code: 12UY0075-3 Level 3) under the supervision of an Electrical or Electrical-Electronics Engineer.
			 During electrical works, 1kV insulated gloves compliant with EN 60903:2003 and insulated electrician work shoes compliant with EN 344 shall be used. An insulating mat or platform compliant with EN 60243-1 shall be placed on the floor.
			 Works shall be conducted by at least two technical personnel. These individuals shall not make physical contact with each other during the operation.
			 Technical personnel assigned to the task shall receive training and participate in drills regarding the effects of electric shock and first aid response.

- The energy monitoring system and automation system shall be installed in accordance with the requirements of EN ISO 50001 Energy Management System, and their effectiveness shall be ensured.
- Personnel involved in the installation of the energy monitoring and automation systems shall hold, at minimum, the Automation Systems Installer Level 4 (12UY0076-4) qualification certificate.
- Insulated work gloves (suitable for low-voltage conditions) and insulated safety shoes shall be used to protect against electric shock.
- The LOTO (Lockout/Tagout) system shall be used to ensure panel safety.

Table 25 - Control Plan for Electronic Building Management System and Automation System Works

System	
Task: General Construction Technique for the Electronic Building Management S	System & Automation

Technical Description and

Requirements

Construction Technique and

Technology

- Control cables for central HVAC systems such as boilers and heat pumps, as well as flowmeter cables, shall be routed to the floor MCC & DCC panels.
- Motor-pump control cables shall be routed to the floor MCC & DCC panels, and the frequency inverter connections shall be made.
- Line differential pressure and temperature sensors shall be connected to the installation in accordance with the project design, and their signal cables shall be routed to the floor MCC & DCC panels.
- Floor MCC & DCC cables shall be routed to the central panel, and the connections for switches and similar components shall be completed.

Use of Work Equipment

No equipment usage is foreseen.

Use of Chemical Substances

No use of any chemical substances is foreseen.

Access to the Work Area

The work area is located in the basement of the building, and existing access routes will be used.

Material Transport

It will be carried by hand.

PPE – GENERAL		Need for Trained Personnel			
1.	EN 397 Safety Helmet	1.	Electric Panel Assembler (Qualification Code: 12UY0075-3		
2.	EN 420 General Purpose Gloves		Level 3)		
3.	EN 345 Safety Shoes (200J)		·		
4.	EN 340 General Workwear	2.	Automation Systems Installer (12UY0076-4 Level 4)		

Table 26 - Risk Analysis for the Electronic Building Management System and Automation System

TASK	HAZAR	D		RISK			MEASURE	
Cutting the line power from the electrical panel	Cutting power electrica	from	the	Cutting power electrica	the from al panel	line the		Panel intervention shall be carried out by a Certified Electric Panel Assembler (Qualification Code: 12UY0075-3 Level 3) under the supervision of an Electrical or Electrical-Electronics Engineer. After the power is cut, the absence of voltage on the neutral and grounding lines shall be verified using a multimeter. The panel shall be locked and tagged (LOTO). Before removing device connections or making new connections, the absence of voltage shall again be verified using a multimeter. The work shall be performed by at least two technical personnel, and they shall avoid physical contact with each other during the task. Technical personnel performing this work shall receive training on the effects of electric shock and first-response procedures, and a practical drill shall be carried out.

- Insulation of Mechanical Installation Equipment Using Insulation Materials
- Personnel involved in the mechanical installation process shall hold, at minimum, the Heating and Natural Gas Internal Installation Technician Level 3 (11UY0031-3) qualification certificate.

Table 27 - Control Table for the Insulation of Equipment Using Appropriate Insulation Materials

Work:	Insulation of Mechanical Installations			
	WORK METHOD			
Technical De	escription and			
Requiremen				
Construction	n Technique and			
Technology				

 Pre-fabricated insulation jackets, produced in appropriate dimensions, will be installed over the designated installation components and secured using jacket fastening cords/Velcro straps.

Use of Work Equipment

No equipment usage is foreseen.

Use of Chemical Substances

No use of any chemical substances is foreseen.

Access to Working Ares

 The work area is located in the basement level of the building. Internal circulation routes of the building will be used.

Transportation of Materials

Materials will be transported manually.

PPE – GENERAL	Need for Trained Personnel		
1. EN 397 Industrial Safety Helmet	1. Heating and Natural Gas Internal		
2. EN 420 Electrically Insulated Gloves	Installation Practitioner, Level 3		
3. EN 345 Safety Work Shoes (Safety Footwear)	(11UY0031-3)		
4. EN 340 General Work Clothing			

- For this activity, a specific risk list was not deemed necessary. General risk assessment rules apply.
- Replacement of the existing 260 kW chiller with a new high-efficiency chiller

The method statement describing the dismantling of the existing chiller, its removal from the building, transportation procedures, and the transport, movement into the building, and installation of the new chiller shall be prepared by the Contractor and submitted to the Supervision Consultant for approval. Works may commence only after the method is approved. The main elements and critical considerations regarding the chiller installation process are listed below.

- All works shall be carried out under the supervision of a competent Mechanical Engineer.
- A method shall be defined for the dismantling, removal, and handover of the existing chiller to the university.
- The truck to be used for the transport of the new chiller shall comply with the Traffic Management Plan.
- The route to be used for removing the dismantled chiller and bringing the new unit inside shall be specified in the method statement. (If wall demolition and reconstruction are required, the personnel performing these works must hold the Mason Level 3 Certificate (12UY0048-3).)
- Personnel involved in the mechanical installation works must hold, at minimum, the Heating and Natural Gas Internal Installation Personnel Level 3 Certificate (11UY0031-3).
- The suitability of the equipment to be used for lifting and moving the chiller indoors shall be verified through valid periodic inspection reports issued by Authorized Mechanical Engineers.
- During the renovation process, the area around the heating center shall be cordoned off with warning tape

to prevent unauthorized access.

- Personnel performing electrical installation and panel assembly works must hold, at minimum, the Electrical Panel Assembler Level 3 Certificate (12UY0075-3).
- The grounding line of the electrical system shall be inspected and certified by authorized Electrical or Electrical-Electronics Engineers.
- Electrically insulated gloves (suitable for low-voltage conditions) and insulated safety shoes shall be used to prevent electrical shocks.
- All personnel involved in handling heavy loads must receive manual lifting and handling training.

Table 28 - Chiller Installation Control Table

Work:	Chiller Installation
	WORKING METHOD

Technical Description and Requirements -

Construction Technique and Technology

- The existing chiller will be dismantled, and a new high-efficiency chiller will be installed in its place; subsequently, natural gas line connections, supply and return hot/cold water collector, valve, and equipment connections will be completed.

Use of Work Equipment

- Truck
- Mobile crane
- Material handling equipment (shackles, slings, hooks, chains)
- Torque wrench
- Cordless drill
- Screwdriver set
- Multimeter
- Cable cutting and stripping hand tools (cutters, pliers, long-nose pliers, etc.)
- Mechanical installation tools (pipe cutting, pipe bending)

Use of Chemical Substances

- Cleaning chemicals
- Mechanical system oils

Access to the Work Area

- The access route is shown in the plan under the General Construction Technique section.
- The maximum speed limit within the campus for trucks is restricted to 20 km/h.
 - The maximum speed limit within the campus for the mobile crane is restricted to 20 km/h.

ine maximum speed iiii	the trial time campas for the mostle crane is restricted to 20 km, in
KKD - GENEL	Eğitimli Personel İhtiyacı
7. EN 397 SAFETY HELMET	7. MECHANICAL ENGINEER
8. EN 420 GENERAL-PURPOSE GLOVES	8. TRUCK DRIVER WITH CLASS C DRIVER'S LICENSE
9. EN 345 SAFETY FOOTWEAR 200J	9. MOBILE CRANE OPERATOR (QUALIFICATION CODE: 13UY0172-3 LEVEL
10. EN 420 ELECTRICALLY INSULATED GLOVES	3) 10. SIGNALER / BANKSMAN (QUALIFICATION CODE: 15UY0218-2 LEVEL 2)
11. EN 345 ELECTRICALLY INSULATED SAFETY	11. HEATING AND NATURAL GAS INTERNAL INSTALLATION PERSONNEL
FOOTWEAR 200J	LEVEL 3 (11UY0031-3)
12. EN 340 GENERAL WORK CLOTHING	12. ELECTRICAL PANEL ASSEMBLER (QUALIFICATION CODE: 12UY0075-3
	LEVEL 3)

Table 29 - Chiller Risk Analyses

TASK	HAZARD	RISK	MEASURE
Transport of materials	Truck	Injury or fatality as a result of a traffic accident	 The truck shall be operated only by drivers holding a valid Class C driver's license. Urban speed limits shall not be exceeded (50 km/h). The speed limit within the campus area is restricted to 20 km/h. Movements and maneuvers inside the site shall be monitored by the OHS Specialist.
Transport of materials	Material / assembly components	Injury or fatality as a result of tipping or falling material components	 All materials shall be placed in the center of the truck bed in a balanced manner, considering the center of gravity. The unit shall be secured with slings. Assembly components shall be transported in packaged form on pallets. The truck's side and rear gates shall be closed and securely locked.
Transport of materials – unloading	Mobile crane & lifting equipment	Injury or fatality due to load dropping during lifting, moving, or lowering operations	The crane shall be operated by a Mobile Crane Operator (Qual. Code: 13UY0172-3 Level 3). Slinging and signaling shall be carried out by certified signalers/banksmen. The crane's periodic inspection report shall be checked and verified by the OHS Specialist before work starts (valid within a maximum period of 6 months). Periodic inspection reports for slings, chains, shackles, and hooks shall be checked and verified by the OHS Specialist before work starts (valid within a maximum period of 6 months). Slings, shackles, and hooks shall be visually inspected before use; their load capacity and physical condition shall be verified. The mobile crane's hydraulic stabilizers shall be fully deployed and secured on stable ground. Prior to lifting, the mobile crane boom angle and corresponding lifting capacities shall be checked. The load shall be guided by the signaler using a tag line. Access to the work area shall be restricted throughout lifting and moving operations. Passing under suspended loads is strictly prohibited. Warning signs shall be installed. All works shall be carried out under a PERMIT-TO-WORK SYSTEM.
-	Refrigerant leakage (refrigerant)	Respiratory distress, frostbite injuries, toxic exposure	Leakage shall be checked using leak detectors. A leak-tightness test shall be carried out. Suitable escape/evacuation equipment shall be used. The manufacturer's instructions shall be strictly followed.
Cutting off and re- energizing the line via the electrical panel	Power panel, line cable	Electric shock during work carried out inside the panel	Intervention on the panel shall be performed by an Electrical Panel Assembler (Qual. Code: 12UY0075-3 Level 3). During electrical works, 1 kV insulated gloves compliant with EN 60903:2003 and insulated electrician's safety footwear compliant with EN 344 shall be used; an insulated floor mat (EN 60243-1) or insulated platform (EN 60243-1) shall be placed underfoot. Works shall be carried out by at least two technical personnel, who shall avoid physical contact with each other during the operation. Technical personnel performing these works shall receive training and drills on the effects of electric shock and first-aid/initial response procedures.

Risk analysis lists are prepared for illustrative purposes. The Contractor shall conduct detailed risk assessments for each task under its responsibility by taking these lists into consideration. Risk assessments shall be prepared in accordance with the Occupational Health and Safety Risk Assessment Regulation (Official Gazette: 29.12.2012/28512) and shall be revised when necessary.

9. Identification of Risk and Control Measures

9.1. Identification of Risks and Control Measures Affecting the General Construction Site

All construction sites have been reviewed using solid models generated by drone footage, and site-specific Risks have been identified. The risks determined as a result of this review are listed item by item below. Objective evidence related to these items is presented under the section of this report titled "Pre-Construction Information & Site Layout Plans."

- The areas listed below must be inspected by the Contractor's OHS Specialist, and if necessary, workers must be informed about additional safety precautions.
- Site-related risks may not be limited to these findings; if the Contractor encounters hazardous areas not listed here, this must be reported immediately to the Supervisor's OHS Specialist.

a.1 Risk of Falling and Falling from Heights:

In a renovation project involving elevation differences, especially where stairs, platforms, passages, and slopes lack adequate safety precautions, the risk of falls increases. Renovation works on upper floors can lead to serious fall accidents, particularly when protective barriers and guardrails are missing.

a.2 Access and Transportation Difficulties:

Work carried out at varying elevations may complicate material transport and worker movement. During the lowering or carrying of materials from heights, unstable worker movements can lead to accidents.

a.3 Risk of Injury:

Due to elevation differences, temporary ladders or scaffolding may be required to provide access to work areas. If such temporary structures are not built safely, the risk of falling, slipping, or injury increases significantly.

a.4 Surface Slippage and Instability:

If proper ground preparation is not carried out in areas with elevation differences, or construction materials are not positioned properly, risks such as slippage, tipping, or instability may occur. This is especially dangerous for workers operating under challenging conditions.

Precautions:

- Protective Measures: Appropriate safety equipment (helmet, safety harness, fall arrest system, etc.) must be provided to workers operating in areas with elevation differences.
- Marking and Warnings: Areas with elevation differences must be clearly marked, and passageways should be well defined. Surface flatness must also be checked.
- Temporary Structures: Temporary structures such as ladders, scaffolds, or ramps must be installed safely and made available for use with appropriate supervision.
- Training and Awareness: Workers must be trained on elevation differences and the associated risks, and safe working methods must be taught.

As a result, when renovating buildings with elevation differences, it is of critical importance to identify the risks caused by these differences and to take appropriate safety precautions.

9.2. Identification of Possible Work-Related Risks and Control Measures

The risks related to the structural feasibility process within the scope of the project are presented in table format under the section "General Site Rules and Management of Works" in this document. Apart from these risks:

- Traffic accidents that may occur during employees' access to the buildings under the project should be considered. In this context:
 - The traffic action plans specified in the report must be followed.
 - All individuals inside the vehicle, including back seat passengers, must wear seat belts.
 - Vehicle drivers must strictly comply with traffic rules and speed limits.
 - Before driving, visual checks such as fuel, oil leakage, tire tread and pressure status must be carried out by the driver. The use of defective or malfunctioning vehicles is prohibited. Detected faults must be reported immediately to the Subcontractor OHS Specialists.
 - Passengers must not refrain from warning drivers when encountering violations of traffic rules and must immediately report such situations to the Subcontractor OHS Specialists.
- Maneuvers of trucks, drilling machines, and other construction equipment around the building inherently pose risks. Before accessing the site, solid models of the building must be reviewed via online access, and the working zones, road elevations and slopes, road widths, and approach limits must be evaluated. Access links to the solid models must be requested from the main contractor via PHONE or email.
- Pedestrian movements must be considered during the use of cars, pickup trucks, trucks, and construction equipment around the building. Pedestrian crossings must always be given priority. The reverse maneuver warning sirens of trucks, pickup trucks, and construction equipment must be checked and confirmed functional before each use.
- The use of trucks and construction equipment at night is not permitted unless strictly necessary. In such cases, the work permit system shall be activated, and permission must be requested from the OHS Specialist by stating a justification.
- Third parties and stakeholders must not be allowed to approach within 20 meters of drilling works and construction equipment operations. For this, the perimeter of the working area must be demarcated with safety tapes, and warning signs must be installed.
- The surroundings of buildings under construction must be enclosed with physical barriers (e.g., metal sheets) in such a way that prevents unauthorized access by third parties, and the area must be fully locked at the end of each working day.

9.3. Risk Arising from Time and Space Overlapping Tasks

Plans have been reviewed, and no risks caused by overlapping tasks have been observed. If overlapping tasks in terms of time and space are encountered once construction works begin, this situation shall be evaluated by the contractor in the work schedule and risk assessments and reported to the supervisor. After appropriate precautions are taken for the risks, work shall commence upon the supervisor's approval.

10.Determination of the Requirements and Specifications of Work Equipment

- The Contractor shall identify all devices and equipment to be used during the works in accordance with safety directives¹⁰ (CE Marking Regulation) and relevant standards¹¹, and shall prepare a list together with periodic inspection reports to be submitted to the Supervisor.
- All electrical devices and equipment must undergo PAT testing and must be marked with PAT approval labels indicating their electrical safety compliance.

- Machinery Safety Regulation (2006/42/EC)
- Regulation on Electrical Equipment Designed for Use Within Certain Voltage Limits (2014/35/EU)
- Pressure Equipment Regulation (2014/68/EU)
- Regulation on Appliances Burning Gaseous Fuels (2016/426/EU)

- TS EN ISO 12100 Safety of machinery General principles for design Risk assessment and risk reduction
- TS EN 60204-1 Safety of machinery Electrical equipment of machines Part 1: General requirements
- TS EN 60335-1 Safety requirements for household and similar electrical appliances Part 1: General requirements
- TS 1203 EN 286-1 Simple unfired pressure vessels
- TS 10116 Cranes Test and inspection methods
- TS ISO 9927-1 Cranes Inspections Part 1: General

10.1 Determination of Protective Equipment Needs10.1.1. Collective Protection System

Table 30 - List of Collective Protection Systems

Type of Protection	Usage Area	Duration of Use	Standards
Safety Tape	Hazardous work areas (falling objects from height, heavy machinery, fall risk, electrical work, heavy load handling)	Until local work is completed	-
Access / Fall- Restraining Guardrail	Drilling work areas, edges of demolished exterior walls	Until local work is completed	TS EN 13374+A1
Lifeline	Work on scaffolding, roofs, near demolished façade walls	Until local work is completed	TS EN 795
Safety Net	Areas where guardrails/barriers cannot or are not preferred to be used (e.g., PV installation above parking lots)	Until local work is completed	TS EN 1263-2

¹⁰ Relevant Directives:

¹¹ Relevant Standards (to be reviewed individually for each device):

10.1.2. Personal Protective Equipments (PPE)

Table 31 - PPE Table

Definition	Category	Maintenance/ Renewal Period	Max. Usage Duration	Standard	Color Code
Helmet	II	1 Year	Continuous	TS EN 397+A1	White: Engineer, Yellow: Worker, Red: OHS Specialist, Green: ERT
Earplugs	I	Daily	During Noisy Tasks (≥80 dB)	TS EN 352-2	-
Protective Goggles	I	3 Months	Throughout Tasks With Eye Injury risk	TS EN ISO 16321-3	-
General Purpose Work Gloves	I	3 Months	Continuous	TS EN ISO 21420	-
Work Shoes	II	1 Year	Continuous	TS EN ISO 20347	-
Half-Face Mask	I	Daily	For Dusty Tasks	TS EN 140	-
Full Body Safety Harness	II	1 Year	For All Work at Height	TS EN 361	-
Fall Arrest Equipment & Lifelines	II	1 Year	For All Work at Height	EN 355	-
Insulated Gloves & Work Shoes	I	3 Months	For Electrical Tasks	TS EN ISO 21420	-

11. Work Permit System

Work activities subject to the permit-to-work system are listed below.

• All types of night work.

No work may be carried out without approval from the OHS Specialist. The elements to be checked for night work are listed below;

- Approval of the building administration and technical units,
- Verification of appropriate lighting and lighting levels for outdoor works,
- Whether building technical teams can accompany the work,
- Working hours of the employees,
- Information about the work area (photograph),
- Professional qualifications of the employees,
- Working at height,
- Installation of scaffolding in compliance with TS EN 12811-1
- Anchoring the scaffolding to suitable points on the ground and façade
- Installation of horizontal and vertical lifelines,
- Indicating the capacities of the scaffolding and lifelines (total number of users load)
- Training of personnel who will work at height (Working at Height Training), medical reports stating fitness for working at height
- Within the scope of this project; confined space work, welding, plasma cutting, etc. are not anticipated. However, if such works are required even for partial and simple tasks, the permit-to-work system will be activated.

The process of the permit-to-work system is described below;

- 1. For the activities listed under work requiring a permit, preparation of the PERMIT-TO-WORK form and requesting approval is mandatory. Work may only begin if approval is granted for the form. It is prohibited to start work without approval.
 - a) Necessary personal protective equipment must be fully provided and used in a disciplined manner.
 - PPE to be used prior to work must be visually inspected, and if any physical defect or end-of-service-life condition is detected, it must be replaced immediately. Under no circumstances shall unsuitable PPE be used.
 - b) Persons without professional qualification cannot take part in work requiring a permit. Therefore, vocational qualification certificates related to the work must be kept in employees' personnel files or uploaded to a digital form.
 - The validity status of vocational qualification certificates must be verified before work. Individuals with expired or renewal-required certificates shall not be authorized to participate in field work.

According to the permit-to-work system, the person commissioning the work is the project manager, and work cannot begin without their approval. This system will be implemented to ensure continuous monitoring and control of work requiring a permit and to determine methods aimed at reducing occupational health and safety risks. The work permit form to be used throughout the project is provided in Annex-2.

12.LOTO System

The combined use of physical barriers and informational tags to eliminate risks such as unexpected energy/gas release, operation, electric shock/fire, explosion, etc., during the control, maintenance, and replacement of energized systems, devices, and natural gas lines is referred to as the Lockout-Tagout (LOTO) system.

During such operations:

- It is mandatory for all personnel involved to receive lockout/tagout training.
- Equipment required for lockout/tagout must be provided and kept ready by the contractor.
- The neutral and grounding lines of the devices must also be disconnected from the busbar/connection points to prevent electric shock from other systems/devices.
- To eliminate energy caused by pressure in the devices, valves feeding the intervention section must be closed and locked. Existing pressure must be discharged through a vent or relief valve.



Figure 24 - Lockout-Tagout (LOTO) Training Examples

¹³ Lockout-Tagout(LOTO)

13. Observation and Inspection

The minimum checklist presented below shall be used during routine site inspections. In addition, the Contractor shall prepare inspection forms appropriate to the nature of the work to be performed.

Table 32 - OHS Check List

NO	CHECK SUBJECT	SCORE	DEADLINE	RESPONSIBLE	ACTION
01	Have the necessary OHS trainings been provided to the employees?				
02	Is the continuity of OHS measures being observed?				
03	Is regular information obtained from employee representatives and support personnel regarding the workplace?				
04	Are pre-employment medical examinations and periodic health checks of employees carried out regularly?				
05	Are health records kept in accordance with the principle of confidentiality?				
06	Is there guidance to ensure the compatibility between the job and the employee, and to protect employees from stress factors in the work environment?				
07	Are occupational diseases that are likely to be encountered in the sector identified, and workplace observations conducted accordingly?				
08	Are measures identified to ensure controlled entry and exit at the workplace, and is the employer informed?				
09	Are near-miss records being evaluated?				
10	Are records of occupational accidents and diseases being evaluated?				
11	Is regular participation in the OHS Committee ensured, and are the committee's decisions monitored?				
12	Are OHS instructions prepared, submitted for the employer's approval, and their implementation monitored?				
13	Are work permit procedures prepared, submitted for the employer's approval, and their implementation monitored?				
14	Are hygiene and safety conditions of living areas (dining hall, dormitory, showers, toilets, etc.) assessed in compliance with legal requirements?				
15	Are environmental physical, chemical, and biological factors taken into consideration?				
16	Is the employer informed regarding the identification of first aid, firefighting, search & rescue, and evacuation teams, and the necessary trainings?				
17	Has the emergency plan been prepared in accordance with the site?				
18	Have escape routes and assembly points for emergencies been identified and marked?				
19	Have measures for fire prevention been studied?				
20	Are emergency drills being conducted, monitored, and evaluated?				
21	Is the risk assessment prepared in accordance with the site-specific conditions?				
22	Is the risk assessment carried out by the team defined in the legislation?				
23	Are post-risk assessment control steps being followed?				
24	Is the risk assessment renewed in cases specified in the legislation?				
25	Are special studies conducted for vulnerable groups requiring specific policies?				

NO	CHECK SUBJECT	SCORE	DEADLINE	RESPONSIBLE	ACTION
26	Is appropriate PPE selected for the employees and is training on its use provided on site?				
27	Are required environmental measurements identified and the employer informed accordingly?				
28	Is the employer informed about the compliance of equipment used in the workplace with standards?				
29	If pedestrian and vehicle traffic exists within the workplace, are vehicle routes properly designated?				
30	Are suitable stacking areas for stored materials or parking areas for work machinery designated?				
31	Are periodic inspections of work equipment being tracked?				
32	Are operator competencies of workers using equipment being checked?				
33	Are certified logbook copies regularly kept during each workplace visit by the OHS specialist and workplace physician?				
34	Has a realistic annual work plan for the workplace been prepared?				
35	Is the work schedule in the annual plan being followed?				
36	Does a realistic annual evaluation report for the workplace exist?				

The inspections carried out using OHS Checklists similar to or improved versions of those in Table 32by the Consultant and the Contractor shall be reported to the Project Implementation Unit at the intervals specified in Table 33. The Contractor shall submit the reports to the Consultant in the specified format, and the Consultant shall submit the final versions of the reports to the Directorate of Earthquake Strengthening with International Financial Resources under the Ministry of Environment, Urbanization and Climate Change. Monitoring shall be conducted in accordance with the schedule provided in Table 33.

Table 33 - OHS Monitoring Plan

What	Where	How	When	Why	Reporting	Responsibility
parameter will be	will the	will the parameter be	will the parameter be	will the parameter be		
monitored?	parameter be	monitored?	monitored	monitored?		
	monitored?		(frequency)?			
Yenileme ve Güçlend	irme İşleri Saha Hazı	ırlık FSite Preparation Ac	tivities for Renovation and	Strengthening Worksaaliyetleri		
Community health and safety management and protective measures applied	Around the project site	Visual inspections, site supervision, availability and implementation of the Active Community Safety and Traffic Management Plan	At the beginning of renovation/strengthe ning works (first day) and daily throughout project activities	To minimize health and safety risks and mechanical injuries to local residents	• Weekly	Consultant Contractor
OHS protection measures for workers on construction sites	Project site and nearby buildings	Visual inspections, implementation of the OHS Plan	Daily throughout project activities	To minimize OHS risks for workers, especially those removing asbestos-containing roof covers, including the use of PPE and protective clothing	• Weekly	• Consultant • Contractor
Avoiding and minimizing health and safety risks for affected persons	In the building and on the project site	Visual inspections	At the beginning and continuously every workday	To prevent injuries due to inhalation of asbestos fibers or other construction dust (Post Activation Potential)	• Weekly	Consultant Contractor

What	Where	How	When	Why	Reporting	Responsibility
parameter will be	will the	will the parameter be	will the parameter be	will the parameter be		
monitored?	parameter be	monitored?	monitored	monitored?		
	monitored?		(frequency)?			
Community health and safety management and protective measures applied	Around the project site	Visual inspections, site supervision, availability and implementation of the Active Community Safety and Traffic Management Plan	At the beginning of renovation/strengthe ning works (first day) and daily throughout project activities	To minimize health and safety risks and mechanical injuries to local residents	• Weekly	• Consultant • Contractor
Operational Process	of Renovation/Streng	thening Works				
OHS protection measures for workers (working at height, with hazardous materials, rotating machinery, electrical devices, etc.)	Project site and nearby buildings	Checking relevant OHS certificates and documents of trained workers, visual control of PPE usage, application of OHS Plan and site-specific H&S instructions	Before demolition works and daily throughout project activities	To minimize OHS risks for workers and comply with applicable law, regulation, directive, and circular	• Monthly	• Consultant • Contractor

What parameter will be monitored?	Where will the parameter be monitored?	How will the parameter be monitored?	When will the parameter be monitored (frequency)?	Why will the parameter be monitored?	Reporting	Responsibility
Working conditions	Project site	Final OHS Plan review, site supervision, feedback mechanism (complaints)	Daily throughout project activities	Compliance with Occupational Health and Safety Law and related regulations	• Monthly	• Consultant • Contractor
Manufacturing, operation, and delivery (pipeline manufacturing and construction)	Manufacturing and construction zones	Visual inspections, site supervision records, necessary tests, personnel qualification checks by relevant authorities	When related manufacturing/proces s is completed	To confirm completion before pipeline handover, and prevent disasters after delivery to end user	• As needed	Beneficiary Institutions, Service Provider OHS Department, Consultant, Contractor
Health and safety records	Project site	Control of health and safety site documentation	Monthly	To ensure proper OHS recordkeeping on site	• Monthly	Consultant Contractor

What	Where	How	When	Why	Reporting	Responsibility
parameter will be	will the	will the parameter be	will the parameter be	will the parameter be		
monitored?	parameter be	monitored?	monitored	monitored?		
	monitored?		(frequency)?			
Identification, proper packaging, and hazardous waste labeling of asbestos- containing waste	Project construction sites	Prior to start of removal/dismantlin g works, field supervision, document review	Throughout project lifecycle / Daily if identified	Compliance with the Regulation on Health and Safety Measures for Working with Asbestos	• Immediate (if identified), • Monthly	• Consultant • Contractor
Vehicle and pedestrian safety	Project site and access roads	Visual inspection, use of proper signage and signals, site supervision, implementation of Community Safety and Traffic Management Plan	Daily	To protect workers, beneficiaries' staff, and local communities from traffic-related injuries and fatalities	• Weekly	• Consultant • Contractor

What	Where	How	When	Why	Reporting	Responsibility
parameter will be monitored?	will the parameter be monitored?	will the parameter be monitored?	will the parameter be monitored (frequency)?	will the parameter be monitored?		
Operational Phase of	Renovation/Strengtl	nening Works				
Health and safety	Renovated/stren gthened buildings	Roof, windows, doors, leakage checks, regular inspections and maintenance	Regularly (throughout project life)	To ensure health and safety of building occupants/users	Within 1 week of detection	Beneficiary Institutions
Site Preparation Acti	vities for Renovation	and Strengthening Wor	ks			
Community health and safety management and protective measures applied	Around the project site	Visual inspections, site supervision	At the beginning of renovation /strengthening works (first day) and daily during project activities	To minimize health and safety risks and mechanical injuries to local residents	• Monthly	Consultant Contractor
OHS protection measures for workers	Project site and nearby buildings	Visual inspections	Daily throughout project activities	To minimize OHS risks for workers, especially those removing asbestoscontaining roof coverings, including use of PPE and protective clothing	• Weekly	Consultant Contractor
Avoiding and minimizing health and safety risks for affected persons	In the building and on the project site	Site supervision	At the beginning and continuously every workday	Compliance with Occupational Health and Safety Law and related legislation, circulars, communiqués	• Weekly	Consultant Contractor

14. Employee Trainings

• It is mandatory that all employees have received training in accordance with the minimum requirements specified in the REGULATION ON THE PROCEDURES AND PRINCIPLES OF OCCUPATIONAL HEALTH AND SAFETY TRAININGS OF EMPLOYEES (Official Gazette Date: 15.05.2013, Official Gazette No: 28648) and the HYGIENE TRAINING REGULATION (Official Gazette Date: 05.07.2013, Official Gazette No: 28698).

In this context, training records and certificates of the Subcontractor personnel shall be requested and checked.

OHS trainings shall be listed in a format including the employee's name, duty, employment start date, training names, and dates, and shall be submitted to the Consultant OHS Specialist.

- Within the scope of this project, all employees shall be subjected to a minimum of 2 man-days of training under this document and the risk assessments.
- These trainings shall be provided by the OHS Specialists of the Contractor and Subcontractors, and the training records shall be submitted to the Consultant.
- Before starting work, all employees must have received Rope Access Training for Working at Height. These trainings shall be provided by experts holding at least IRATA (Industrial Rope Access Trade Association) International Level 2 Certificate.

14.1. Monitoring of Personnel Health Conditions

- Periodic health reports of employees shall be checked, and their fitness for duty shall be verified based on these reports.
- Health reports shall be listed in a format including the employee's name, duty, employment start
 date, occupational health training names and dates, and shall be submitted to the Consultant
 Workplace Physician.

14.2.Personnel Vocational Qualifications

The vocational qualification requirements foreseen in this document are specified herein. The Contractor shall list all employees in a format including the employee's name, duty, employment start date, vocational qualification certificate, certificate date, and certificate validity date, and shall submit it to the Consultant OHS Specialist.

15. Emergency Preparedness

The emergency action plan shall be prepared by the Contractor as a report containing necessary parameters and directions specific to the planned work, mapped and diagrammed in accordance with Article 11 of the Occupational Health and Safety Law No. 6331.

The prepared emergency action plan may vary or be applicable depending on the foreseen emergency situations.

Emergency situations that are anticipated to potentially occur during structural strengthening and renovation works, and the preventive measures related to such emergencies, are presented below in tabular form.

EMERGENCY	PREVENTIVE AND CONTAINMENT MEASURES
Fire and explosion	 Periodic maintenance and inspections of the electrical and grounding installations, lightning protection system, generator, fire extinguishing and fire detection and warning systems, portable fire extinguishers, and ventilation installation; and immediate repair of any malfunctions by authorized personnel Limiting areas where smoking is permitted and marking these areas with signs Removal of flammable dry grass and tree branches Availability and continuous operation of fire detection and warning systems (alarms, gas and smoke detectors, etc.) Periodic inspection of the heating system, and prevention of unauthorized access to the boiler room Proper labeling and storage of chemicals used Proper storage of chemical waste Keeping flammable, combustible, and explosive materials away from heat sources In cases where power must be cut off, assigning authorized personnel to intervene, with identification of the locations of gas valves, electrical panels, and other relevant systems Conducting environmental measurements
Release caused by hazardous chemical substances	 Storage of chemicals in accordance with their properties and hazards, prevention of leakage risks, and provision of adequate ventilation Prevention of unauthorized persons from entering chemical storage areas Provision of standard-compliant personal protective equipment for employees handling chemicals, and ensuring their proper use Posting of Chemical Safety Data Sheets in a proper and visible manner in the work areas where chemicals are present Availability of a hazardous substance intervention card Conducting environmental measurements
Poisning	 Control of expiration dates of food products Preparation of meals under hygienic conditions Keeping serving materials such as plates, forks, trays, etc. clean Collecting sample portions from meals (retained samples) Providing training to personnel serving food Providing general hygiene training to all personnel Ensuring that food service personnel use appropriate gloves, hairnets, work clothes, etc.
Epidemic disease	 Vaccination Preventive medication Pest control and disinfection Ensuring hygiene Establishment of a First Aid Team and provision of necessary training Regular inspection of drinking water and water dispensers Collecting sample portions from meals (retained samples)

Sabotage	Establishment of a security unit.
Sabblage	 Establishment of a security unit. Installation of security cameras in necessary places for continuous monitoring.
	 Controlled entry and exit.
	Keeping records of people coming from outside, checking IDs at the entrance and
	issuing visitor cards.
	Controlled opening of incoming shipments.
	 Control of transportation vehicles.
	Restriction of unauthorized access to high-security areas.
	Adequate interior and exterior lighting.
N1 D:	
Naural Disasters	• Reinforcement of the ground.
	• Securing cabinets and shelves, placing large tools and equipment in safe positions.
	Checking the earthquake resistance of buildings.
	Providing training to all employees on what to do during an earthquake.
	Keeping an earthquake emergency kit ready with first aid materials, flashlight,
	batteries, radio, etc.
	Inspection and maintenance of rainwater drainage channels.
	Giving priority to afforestation.
	Portable barriers for windows and doors in enclosed workplaces.
	• Using emergency valves for quick and safe shutdown of electricity (electricity, gas,
	etc.) and assigning competent personnel.
	Ensuring equipment is ready for use during and after a disaster.
Occupational	Providing occupational health and safety trainings.
Accidents	• Conducting health surveillance (periodic examinations and tests, etc.).
	Providing additional training for tasks requiring special skills such as working at
	height, working in INDOOR AREAs, etc., and keeping reports indicating fitness for
	such tasks.
	Keeping the risk Assessment up to date and continuously monitoring the
	implemented measures.
	Investigating near miss incidents and taking necessary precautions to prevent
	recurrence.
	Conducting accident investigation and root cause analysis.
	Not assigning personnel to tasks for which they are not adequately qualified.
	Implementing an occupational health and safety incentive/warning system and
	carrying out efforts to develop workplace safety culture.
	Implementing an effective inspection mechanism.
	Monitoring the correct and effective use of Personal Protective Equipment.
	Avoiding working alone.
	Ensuring that personnel employed through service procurement are employed in
	accordance with occupational health and safety legislation.
	Establishing a First Aid Team and providing the necessary trainings.
	Providing training to employees on cyber risks and security. Installing and learning activities and activities and activities and activities and activities and activities and activities.
	Installing and keeping antivirus and anti-spyware software up to date. Ling a firmual for internal connections.
	Using a firewall for internet connections. Undeting approximation and applications.
Cyber Attacks	Updating operating systems and applications. Pagularly healing up data and information.
Cybel Allacks	Regularly backing up data and information. Controlling physical access to computers and servers.
	Controlling physical access to computers and servers. Ensuring the security and privacy of Wi Fi and I AN networks.
	 Ensuring the security and privacy of Wi-Fi and LAN networks. Assigning each employee an individual username and password.
	 Assigning each employee an individual username and password. Establishing authorization levels for access to information within the network.
	Demonstrating addictization to vote for access to information within the network.

General	 Evacuation plans shall be posted at a height visible to employees, showing entrances exits, floors, and evacuation routes of the workplace buildings and annexes. The evacuation plan shall indicate the locations of fire extinguishing equipment, firs aid materials, and evacuation routes. The assembly point after evacuation shall be designated and shown on the plan. Emergency exit doors shall have proper emergency escape routes and appropriate signs Signs showing escape routes shall be placed in visible areas. Emergency response teams shall be established and necessary training shall be provided Emergency contact numbers shall be posted in visible places. Vehicles shall be parked in a manner that allows forward movement. Employees shall be informed about potential emergencies and emergency plans. Regular emergency drills shall be conducted, ensuring participation of all employees. Clients, visitors, and other persons present in the workplace shall be informed about emergencies and emergency plans. Emergency plans shall be kept up to date. The equipment to be used by emergency teams shall be kept ready for use at all times. An audible and/or visual alarm system shall be used to alert employees in case of emergencies. The location of the First Aid Kit shall be marked, it shall be accessible to all employees contain sufficient and qualified materials, and expiration dates shall be constantly checked. Assistance shall be provided for the evacuation of elderly, disabled, or pregnant individuals.
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The Contractor shall prepare emergency action plans in detail regarding the issues specified above at a minimum and submit them to the Consultant OHS Specialist and the Workplace Physician.

15.1. Emergency Assemby Areas

Emergency assembly areas have been designated for each building and marked on solid model
plans. The emergency assembly areas have been determined by taking into account earthquake
risk and the dimensions of the buildings. The said locations are indicated under the heading
"Pre-Construction Information & Site Layout Plans" using the visual signage for
EMERGENCY ASSEMBLY AREA.

15.2.ERT and First Aid Teams

The Contractor and Subcontractors shall prepare a list of ERT (Emergency Response Teams) and first aiders designated in accordance with legal requirements in the work areas, including their names, duties, employment start dates, emergency preparedness training dates, first aider certificate dates and validity dates, and submit it to the Consultant OHS Specialist.

• All members of the mentioned teams shall participate in at least one emergency drill, and participation reports shall be submitted to the Consultant OHS Specialist and the Workplace Physician.

16. Accident and Invident Investigations

In the event of a work accident during the activities carried out within the scope of the project, legal regulations shall be followed.

On the day the accident occurs, notification shall be made to the Consultant and the Employer via the form in Annex-3.

Within one month from the date of the accident, a root cause analysis of the accident shall be conducted and submitted to the Employer.

Notification to the Social Security Institution shall be made within the following legally defined timeframes:

- The report form to be used for the investigation and reporting of accidents, incidents, and near misses that may occur on site is provided in Annex-3.
- Major environmental accidents and occupational accidents (such as injuries, fatal accidents, environmental spills, etc.) that may occur during construction activities shall be shared with the Consultant and MoEUCC (Ministry of Environment, Urbanization and Climate Change) on the same day; and shall be reported to the Ministry of Labor and Social Security within 3 working days.

MoEUCC shall inform the World Bank about the accident within 48 hours.

The Contractor shall submit the accident report with root cause analysis to MoEUCC within 30 working days.

MoEUCC shall simultaneously share this information with the World Bank.

The accident report shall be completed in accordance with the rules specified below.

- All sections of the accident report must be filled out completely and meticulously.
- The injured areas of the accident victim and the information related to the injury must be described in accordance with the procedure specified in the report.
- While stating the accident description and the root causes that led to the accident in the Accident Report, extreme care must be taken; the accident must be thoroughly investigated, and expressions that may be misunderstood must be avoided.
- If the number of personnel who witnessed the accident is more than 2, efforts should be made to select impartial personnel who can describe the accident accurately.
- Photographs of the scene, photographs of the injured, photographs of the device or equipment that caused the accident, and other objective evidence must be included in the report as attachments.
- The PPE delivery receipts for the PPE used by the personnel at the time of the accident must be attached to the Accident Report.
- If possible, the accident report shall be filled in personally by the employee who had the accident. If this is not possible, one of the witnesses specified in the report shall be selected to complete the report; if no witness is available, the employer or employer representatives shall be asked to fill in this section in their own handwriting.
- The prepared report must be signed by the OHS Specialist, Workplace Physician, and Employer/Employer Representative.
- The following documents must be included as annexes to the prepared Accident Report:
 - PPE delivery receipt,
 - Attendance forms and certificates related to trainings provided up to the date of the accident,
 - o Orientation training form,
 - o Certificates and diplomas related to vocational qualification,
 - o Health report indicating fitness for work,

- o Overtime approval form (in case the accident occurred outside working hours),
- Warning letters issued prior to the accident, if any (if related to the cause of the accident),
- o Minutes prepared regarding occupational health and safety,
- o SGK occupational accident notification form,
- o Health report obtained after the accident,
- o Incapacity report issued by the physician,
- o Social security employment declaration of the insured person,

It should be remembered that occupational accidents may occur no matter how many precautions are taken.

Remaining calm during and after the accident is important both for the injured person and for the organization.

For this reason, it is recommended that WORK ACCIDENTS/INJURED PERSON RESCUE drills be carried out seriously before field activities begin.

Post-accident measures should be evaluated under two separate categories: corrective actions that must be taken immediately, and corrective actions aimed at eliminating the ROOT cause of the accident.

It is essential that the elements causing the occupational accident are eliminated in a way that prevents recurrence.

Points to be considered after the accident:

- During the inspection phase, necessary arrangements will be made on site to facilitate the presence of inspectors arriving at the scene, and all information and documents related to the injured person will be kept ready. It must be remembered that the response time to access the information and documents requested by the inspector is of critical importance.
- The SGK (Social Security Institution) accident notification shall be made within a maximum of 3 days from the date of the accident. (Together with the medical visit paper)
- If available, control reports and regular maintenance cards of the machinery and equipment that caused the accident shall also be kept as annexes to the accident report for inspection.
- All documents attached to the accident report shall be copies. However, preparations shall be made to ensure rapid access to the original documents in case they are requested by the inspectors.

17.OHS Budget

The OHS Budget presented below has been prepared for general information purposes.

It is assumed that the tender offer to be submitted by the Contractor is prepared in a manner that also includes the budget required for the implementation of occupational health and safety measures.

Table 34 - Estimated OHS Budget

	Quantity	Unit	Unit Price	Amount
CATEGORY II SAFETY HELMET (TS EN 397+A1)	150	AD.	₺200,00	₺30.000,00
CATEGORY I EARPLUGS (TS EN 352-2)	3050	AD.	₺25,00	₺76.250,00
CATEGORY I SAFETY GOGGLES (TS EN ISO 16321-3)	150	AD.	₺60,00	₺ 9.000,00
GENERAL-PURPOSE WORK GLOVES (TS EN ISO 21420)	150	AD.	₺30,00	₺ 4.5000,00
ELECTRICAL WORK GLOVES (LOW VOLTAGE) (TS EN ISO 21420)	50	AD.	₺750,00	₺37.500,00
WORK SHOES (TS EN ISO 20347)	150	AD.	₺ 450,00	₺67.500,00
INSULATED WORK SHOES (LOW VOLTAGE) (TS EN ISO 20347)	50	AD.	₺1.100,00	₺55.000,00
DUST MASK	3050	AD.	₺10,00	₺30.500,00
HALF-FACE RESPIRATOR (TS EN 140)	35	AD.	₺500,00	₺17.500,00
CATEGORY II FULL-BODY HARNESS (TS EN 361)	150	AD.	₺ 450,00	₺67.500,00
FALL ARREST EQUIPMENT (EN 355)	100	AD.	₺250,00	₺25.000,00
LIFELINES (EN 355)	100	m.	₺450,00	₺45.000,00
SAFETY BELT	750	m.	₺5,00	₺3.750,00
SAFETY NET (EN 355)	750	m ²	₺350,00	₺262.500,00

TOTAL: **\$731.500,00**KDV: **\$58.520,00**YEKÜN: **\$790.020,00**

18. Annexes

Annex-1 Traffic Plan, Emergency Assembly Area, risky Areas

Annex- 2 Work to Permit Form

Annex-3 Accident Notification Form

Annex-1 Traffic Plan, Emergency Assembly Area, Risky Areas

For the buildings included within the scope of the Tunceli Government Office Project; the sections of the site traffic

plan, parking areas, and emergency assembly areas are provided below;

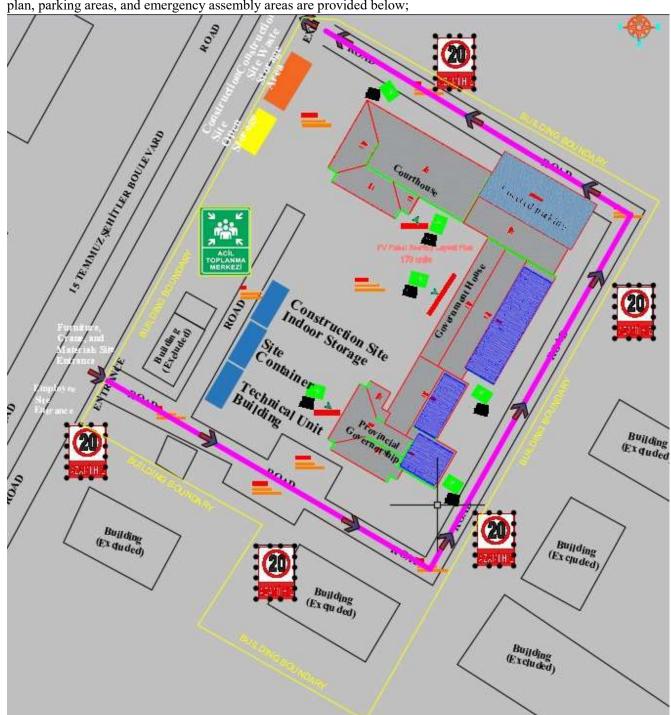


Figure 25 - Tunceli Government House Side Traffic Action Plan



 $Figure~26\ -\ Tunceli~Government~House,~Provincial~Directorate~of~Environment,~Urbanization~and~Climate~Change~Side~Traffic~Action~Plan$

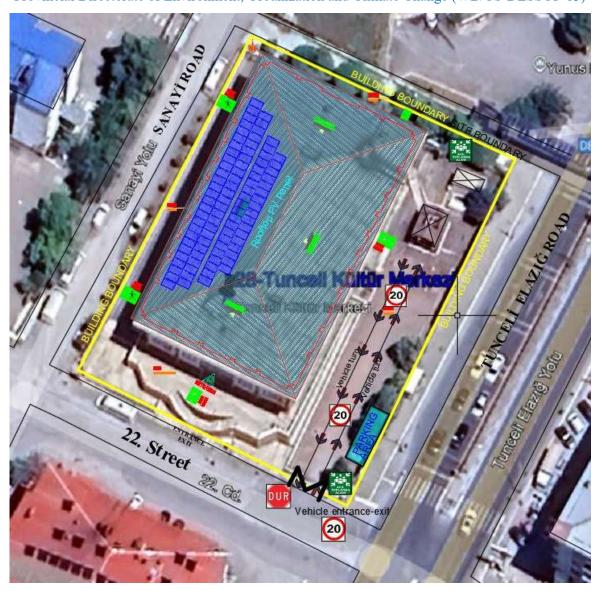


Figure 27 - Tunceli Cultural Center Side Traffic Action Plan

Annex- 2 Work to Permit Form

	ı	ermıt No.	Reque	est Date		Starting Dat Hour	arting Date Hour			Finishing Date Hour		
Location to Work	Type of Activity Subject to Work Permit											
	Night Work											
	nissionin	ng/Test/A	cceptance w	orks								
	ACTIVITY DESCRIPTION											
		L	IST of EM	1PLOY	EES							
Name Surname			. Identific				Occ	upation				
								•				
Personnel Protective E	quip	ment t	o be Used	d	Constr	r. Machine	ry, Ec	uipme	nt, 🛚	Γools		
Safety Shoes			bsorber Lan	yard	1.							
Safety Shoes (Electrician)	_	Half Fac			2.							
Helmet			e Respirator	r	3.							
Safety Gloves	_	Earplug			4.							
☐ Werder Gloves ☐ Gloves (low voltage)	_	Ear Proto			5.							
Gloves (low voltage)					6. 7.							
Face Shield	_		Head Mask		8.							
Safety Goggles	Ħ		Hand Mask		9.							
Safety Harness												
-	1			<u> </u>								
			DECLA	RATIO	N							
I declare that I understand and	acce	pt respo	nsibility fo	r the saj	fe conduc	t of the activ	ity des	cribed a	$bov\epsilon$	2.		
A comprehensive inspection of the work area was conducted, and potential hazards were identified.										□N		
All necessary measures to mitigate								☐ Y		□N		
All personnel have received approp	riate	training a	and possess	the nece	ssary skills	related to the	e	□ Y		\square N		
activity.	~ ,.	G 4:C		111 .	41 .	1 (*1			_			
The personnel's Professional Qualit The work area has been properly is				onnei files.				□ N □ N				
Emergency procedures (rescue, firs												
Attachments: If there are document request (Professional Qualification												
form.	cern	ijicaie, K	isk 21ssessm	eni, site	mspeciion	1 orms, etc.)	iney w	in be inc		i in inis		
Person Requesting Work Permit Work Permit Approval												
Name Surname Date	nature	Name	Surname	Da	te	Si	gnat	ure				
Notes:												
		CLC	SING WO	ORK PI	ERMIT							
Request Ma	ker					Appr	over					
Activity Completed Not Completed					rk permi	t closed F	worl	k permit	car	rcelled		
Date, Hour:					Hour:		,,	- por iiii	, can			

Signature:	Signature:
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Annex- 3 Incident Notification Form

	ACCIDENT REPORT FORM							I -	NT.		fication Date:		
								<u> </u>			ification No:		
			INIIIDI	z D		DEDSON D	A T A		IN	Οι	incation No.		
Name Surname of Injured:						ED PERSON DATA Date of Accident/Incident:							
National ID No:				Time of Accident/Incident:									
Company Name:						Activity Duri							
Department/Project:						Tools/Equi	pmen	t Used:					
Occupation:					V	Witness (1) Nar	ne-Su	rname:					
Duration of Employment:					V	Vitness (2) Nar	ne-Su	rname:	_	_			
		Т	TIME OF AC	CI	Π	DENT OCCU	JRRI	ENCE					
Regular Working Hours		Overtime		Τ	Γ	Break Time	;		Ē]	Temporary Dıty/Visit		
				O)]	F THE ACC	IDEN	NT			1 3 3		
☐ Fatality		ТГ	İşgünü Kayı	plı	. (İsgünü	П	Revirde Müdal	nal	le 1	Gerektiren		
☐ Amputation		+ +	İşgünü Kayı	•		. , .		Tıbbi Müdahal	e t	Ge	rektiren		
☐ Property Damage			_ ;e						Hastalığı (İşgünü kaybı:)				
			ÇEVIC Kazas	evie Kazasi					iastangi (işgunu kayot)				
Other (Specify)													
MANNER OF OCCURRENCE													
Slipping	<u> </u>	Tripping,		1	Ļ	Falling from			Ц	ᆗ	Being Trapped/Crushed		
Cutting/Piercing	Ļ		Splashing	+	Ļ	Foreign Obj	ect in	Eye	닏	ᆗ	Overexertion		
Falling of Material/Tool Animal Bite	Electric Shock			Fire Explosion					Exposure to Cold/Heat Exposure to Radiation				
Chemical Contact	☐ Insect Sting, etc. ☐ Collapse			Traffic Accident					片	ᅥ	Natural Disaster (Earthquake)		
Infectious Disease			Drowning					片	╡	Other:			
Infectious Disease		1 Olsonnig		ΡF	<u> </u>		,			_	Other.		
TYPE OF INJURY Scratch Bleeding Injury Deep and Open Wound Injury with Limb Loss								Injury with Limb Loss					
Sprain, Strain Dislocati			Crack				ound	H	╡	Fracture			
Loss of Consciousness	Electrical Burn		Thermal Burns					Ħ	Ħ	Chemical Burns			
Fainting, Shock	F	Internal E		Sunstroke				Τ̈́	f	Frostbite on Body			
Muscle Injury	Ē		s of Breath	Acute Infection					Ti	Ī	Acute Poisoning		
☐ Diğer:													
			AFFEC	T	E	ED BODY PA	RT						
Skull		Face				Ears			<u></u> [Eyes		
Mouth		Neck		L		Arms			<u> </u>	\underline{lack}	Hands		
Legs		Knees			L	Feet			Ц	╛	Ankles		
Finers Chest				Abdominal Cavity Back						Back			
Diğer:	DII	D. THE A	CCIDENT	~	_	ILIDA (D	1 .	11 1 1	_	1	7 7		
HOW	DII) THE A	CCIDENT O	C(Ü	UR? (Descri	be in	detail and cle	га	rly	v below)		
Reported By			Supervisor				Emp	Employer Representative / Project Manager					

Name-Surname - Signature	Name-Surname - Signature	Name-Surname - Signature