



**YDA HAVALİMANI YATIRIM VE İŞLETME A.Ş.**

**DALAMAN AIRPORT NEW DOMESTIC  
TERMINAL PROJECT**

**MUĞLA PROVINCE, DALAMAN COUNTY**

**ENVIRONMENTAL AND SOCIAL  
MANAGEMENT AND MONITORING PLAN**



**MGS PROJE MÜŞAVİRLİK  
MÜHENDİSLİK TİCARET LTD. ŞTİ.**

Şehit Cevdet Öздеmir Mah. Öveçler 4. Cad. 1351. Sk. No: 1/7 06460 Çankaya/ANKARA

Tel: +90 312 479 84 00 (pbx) Faks : +90 312 479 84 99

Web: [www.mgsmuhendislik.com](http://www.mgsmuhendislik.com)

E-posta: [mgs@mgsmuhendislik.com](mailto:mgs@mgsmuhendislik.com)

**ANKARA-2014**

This English report is a translated version of the Turkish report. In case of contradiction or discrepancy the Turkish version shall prevail.

## INTRODUCTION

The Environmental and Social Management and Monitoring Plan (ESMMP) presented in this document has been prepared in accordance with EBRD Performance Requirements and IFC Performance Standards to document the key management and monitoring actions to be implemented during design (project preparation), construction, operation and demolition periods of the Project. The plan will be developed from ESIA recommendations on the mitigation measures in order to minimize and/or remove possible adverse environmental and social effects of the project.

The management plan will provide the following information:

- Environmental and Social Impact/Parameter
- Legislative Framework
- Project Phase
- Details of Mitigation Measures
- Parties responsible for implementations
- Monitoring methodology including frequency
- Target and evaluation criteria

Whether contractors will be used during construction and demolitions phases is not clear at the moment. In case a contractor is employed, a Contractor Management Plan will be prepared by YDA in order to ensure that contractors are fully aware and compliant with the requirements listed in the ESIA report and this ESMMP. Contractors will be required to commit to fully comply with all social and environmental requirements given in the ESIA report and this ESMMP.

IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
<b>GENERAL</b>						
Environmental and Social Management	IFC Performance Standards  IFC EHS General Guidelines  Environmental Law (No.2872)	All Phases	The Project will be designed, built and operated in accordance with the more stringent obligations of the applicable Turkish Regulations and the international standards and guidelines of the lending institutions: <ul style="list-style-type: none"> <li>• EBRD Performance Requirements</li> <li>• IFC Performance Standards and EHS Guidelines</li> <li>• Equator Principles</li> <li>• EU Directives and Regulations</li> </ul>	ATM  YDA  Contractor	Site inspections  Check monitoring records	Completion of the Project in compliance with relevant legislative framework
		Design	<ul style="list-style-type: none"> <li>• Environmental, Health and Safety measures in line with ICAO, IATA and national standards will be adopted.</li> <li>• Energy efficiency measures will be implemented such as using highly efficient luminaries and lamps, LED lamps, electronic ballasts, lighting control systems</li> <li>• Control systems which are sensitive to motion, heat or light will be used</li> <li>• Revolving door, double doors or air curtains at exterior door of buildings will be used.</li> <li>• Terminal building will be designed in line with barrier-free concept.</li> <li>• Stack height and gas velocity at the stack of new heating center will comply with requirements of the national legislation.</li> <li>• Insulation techniques will be used for buildings.</li> <li>• Stormwater drainage will be designed to prevent the accumulation of surface flows in the site.</li> <li>• Design of the structures will be in line with Regulation on Construction in Disaster Areas (OG. 02.09.1997, 23098), Regulation on the Buildings to be Constructed in Seismic Zone (OG. 06.03.2007, 26454).</li> </ul>	YDA	Site inspections  Inspection of project documentation  Check Monitoring Records	
<b>AIR QUALITY</b>						
Dust Emission	IFC PS3  IFC EHS General Guidelines  Regulation on Control of Industrial Air Pollution  Regulation on Assessment and Management of Air Quality	Construction and Demolition	<ul style="list-style-type: none"> <li>• Roads and working areas will be watered by sprinkler periodically.</li> <li>• Tire washing unit will be installed close to main asphalt road for trucks,</li> <li>• The top of the trucks will be covered with canvas awnings during transportation of materials,</li> <li>• Dump trucks with dirty tires and without canvas awnings will not be allowed to leave construction site,</li> <li>• Loading and unloading works will be performed without making any scattering,</li> <li>• Speed limit will be defined and applied for the construction vehicles in compliance with Traffic Law and Regulation on Highway Transportation,</li> <li>• Settled dust will be monitored and monitoring frequency will be increased or greater control of emissions will be performed if complaints occur,</li> <li>• During activities close to the apron, necessary measures will be taken to prevent drifting of sand and small stones due to strong wind and jet stream to the apron area.</li> </ul>	YDA  Contractor	Site Inspections  Monthly dust measurements at the nearest sensitive locations  Check grievance mechanism records for dust	Compliance with the limit values.  No grievance mechanism record/ complaints for dust
		Demolition	<ul style="list-style-type: none"> <li>• The facade of the structure to be demolished will be protected with a net or similar material with tear-proof and absorbing features in the event the physical characteristics of the structure to be demolished and the demolition technique to be applied allow it.</li> </ul>	YDA  Contractor		
Exhaust Emission	IFC PS3  IFC EHS General Guidelines  Regulation on Control of Industrial Air Pollution  Regulation on Assessment and Management of Air Quality	Construction and Demolition	<ul style="list-style-type: none"> <li>• New and newly maintained vehicles will be used.</li> <li>• Engines will be turned off when vehicles are not in use or parked, unless maintenance operations require the engine to be running.</li> </ul>	Contractor	Site inspections  Check vehicle maintenance reports	Compliance with mitigation measures
Stack Emission	Regulation on Control of Exhaust Gas Emissions and Quality of Fuel and Diesel Fuel	Operation	<ul style="list-style-type: none"> <li>• Regular maintenance of the emission sources will be performed.</li> <li>• Stacks of emission sources such as boilers will be in line with minimum requirements stipulated in the pertinent national and international regulations/standards in order to satisfy the compliance for ground level concentrations.</li> <li>• Emission sources will be turned-off when the operation of the source is not required.</li> </ul>	ATM  YDA	Site inspections  Check monitoring&maintenance records	Compliance of the stack height and ground level concentrations with relevant legislations' requirements.

IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
Greenhouse Gas Emission	Regulation on Monitoring of Greenhouse Gas Emission	Operation	<ul style="list-style-type: none"> <li>Maintenance of generators will be performed on time and regularly.</li> <li>Class A equipment for air conditioning will be preferred.</li> <li>Air conditioners will be operated when ambient temperature is above 30 °C.</li> <li>Indoor temperature will be kept above 24 °C.</li> <li>Apron lighting will be closed in low seasons when there is no flight.</li> <li>Terminal lighting will be reduced in low season.</li> </ul>	ATM YDA	<p>Site inspections</p> <p>Check monitoring&amp;maintenance records</p> <p>Annual greenhouse gas calculations</p>	Compliance with the limit values.
<b>NOISE</b>						
Noise due to Construction Equipments and Vehicles	IFC PS3  IFC EHS General Guidelines  Regulation on Assessment and Management of Environmental Noise	Construction and Demolition	<ul style="list-style-type: none"> <li>All construction machines and equipments will not be operated at the same time</li> <li>All construction machines and equipments will be periodically maintained.</li> <li>Low-noise advance technology equipment will be used as much as possible.</li> <li>Machines will be shut down when not in operation.</li> <li>Construction activities will be carried out during daytime as much as possible.</li> <li>Noisy activities will be implemented at off-season if possible.</li> <li>Noise monitoring shall be conducted to ensure that applicable noise standards are not exceeded.</li> <li>The transport of materials on or off the site by road will take place during normal daytime working. In the event that the transport of materials will take place during night-time working hours, these working hours will be discussed and agreed in advance with the relevant authorities.</li> <li>Local residents will be informed in advance about the planned noisy activities. Any complaints regarding noise received through the Grievance Mechanism will be dealt.</li> <li>Construction working hours will be agreed with the regional authorities.</li> </ul>	YDA Contractor	<p>Site inspections</p> <p>Check monitoring records</p> <p>Seasonal measurements at the nearest noise sensitive receptors</p> <p>Check grievance mechanism records for noise</p>	Compliance with the limit values.  No grievance mechanism record/ complaints for noise
Noise due to Operation of Airport		Operation	<ul style="list-style-type: none"> <li>Equipments having advance technology will be used at installed project and maintenance of those equipments will be done periodically</li> <li>Pitch, barriers and natural obstacles will be established</li> <li>Since airport ground service personnel may be potentially exposed to extremely high levels of noise from taxiing aircraft, the operation of aircraft auxiliary power units (APUs), and ground service vehicles and these noise sources cannot be prevented, control measures will be applied such as use of personnel hearing protection by exposed personnel and implementation of work rotation programs to reduce cumulative exposure.</li> </ul>	ATM YDA	<p>Site inspections</p> <p>Annual measurements at the nearest noise sensitive receptors</p> <p>Check grievance mechanism records for noise</p>	Compliance with the limit values.  No grievance mechanism record/ complaints for noise
<b>GEOLOGY, HYDROGEOLOGY, HYDROLOGY AND SOIL QUALITY</b>						
Protection of soil and groundwater quality	IFC PS3  IFC EHS General Guidelines  Regulation on Control of Soil Pollution and Contaminated Sites by Point Sources  Regulation on Monitoring of Surface Water and Groundwater  Regulation on Protection of Groundwater  Regulation on Protection of Groundwater Against Contamination and Deterioration	All Phases	<ul style="list-style-type: none"> <li>Contamination of land will be avoided by preventing or controlling the release of hazardous materials, hazardous wastes, or waste oil to the environment.</li> <li>There will be no direct discharge to the receiving media.</li> <li>Waste oil and hazardous wastes will be collected in impermeable containers and the area where containers are stored will be covered with concrete and converted by a barrier against leakage. The storage area will not be connected to storm water drainage channels.</li> <li>Maintenance of equipments and vehicles will be implemented on concrete covered area converted by a barrier against leakage.</li> <li>Drainage channels will be constructed for drainage of storm water and surface flows from site in line with the topography of the field. Existing drainage channels will be controlled regularly.</li> <li>All the needed precautions against possible floods within facility site will be taken by the contractor.</li> <li>Since groundwater level is high according to geotechnical survey made in 2004 and there is no newer study, impermeable materials such as geotextile will be laid down prior to piling activities</li> <li>Domestic wastewater to be generated as a result of water usage will be treated in the wastewater treatment plant. Wastewater at the outlet of the treatment plant will be analyzed regularly</li> <li>Fuel storage, fuel loading and maintenance of operational vehicles will be implemented on concrete covered area converted by a barrier against leakage.</li> </ul>	ATM YDA Contractor	<p>Site inspections</p> <p>Check monitoring records</p> <p>Monthly sampling and laboratory analysis for the treated wastewater</p>	Compliance with the limit values.  Maintaining existing groundwater quality

IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
		Before Construction Starts	<ul style="list-style-type: none"> <li>Since Nickel concentration in the new domestic terminal area is significantly higher than the threshold value, in order to understand the reason precisely, soil sampling and analysis will be conducted by YDA at the same point and also at points inside and outside the airport boundaries before construction starts.</li> </ul>	YDA	Soil sampling study before construction starts	Compliance with the limit values.
		Demolition	<ul style="list-style-type: none"> <li>Waste containing asbestos will be collected by the trained and licensed contractors in line with regulatory requirements, stored at impermeable area not to cause soil and groundwater pollution and sent for the disposal.</li> <li>Existing fuel pipeline of the domestic terminal will not be removed, instead, the fuel inside the pipeline will be sucked and the pipeline will be emptied. Tests detecting for possible leakages will be done and end of the pipeline will be carefully closed and sealed to prevent any possible leakages.</li> </ul>	YDA Contractor	Site inspections Check disposal records of asbestos	Compliance with the relevant legislations.
<b>ECOLOGY</b>						
Flora and Fauna Management	IFC PS 6 Directive on Airport PAT Fields Cleaning and Weed Combat Central Hunting Commission Decisions Bern Convention CITES Convention Land Hunting Law No. 4915	Construction and Demolition	<ul style="list-style-type: none"> <li>In the event that there is any tree species (palm, pine etc.) required to be removed during construction/demolition works, such species will be relocated to another area.</li> <li>Roads and working areas will be watered by sprinkler periodically.</li> <li>During construction activities, entrance of machinery/equipment and workers into non-utilized areas will be prevented.</li> <li>Construction activities will be executed in a manner as to allow animals to leave the site.</li> </ul>	YDA Contractor	Construction schedule Site inspections Check monitoring records	Compliance with mitigation measures
		Operation	<ul style="list-style-type: none"> <li>Regarding fauna species taken into protection or absolute protection as per Bern Convention Annex 2 and Annex 3 listings, protection measures under this convention along with provisions stipulated under Articles 6 and 7 shall be respected.</li> <li>Food, beverage etc. sources drawing birds will be removed.</li> <li>Considering that birds feed on mice, moles, worms, spiders and all kinds of insects, weed combat and removal works within airport sites will be executed with care in line with the Directive on Airport PAT Fields Cleaning and Weed Combat.</li> <li>Within the context of weed combating activities, cooperation and support of regional agriculture and veterinary organizations will be provided and applications should be implemented towards preventing excessive breeding of underground beings to constitute food source for birds.</li> <li>Grasses will not be kept overgrown.</li> <li>In line with the knowledge that another food source for birds is constituted by plants (agricultural products, fruits etc.), agricultural activities and fruit cultivation within air spaces will be avoided especially where dense bird activity is observed.</li> <li>Dirty water flows will be definitely covered. Drainage channels will be constantly checked and any clogging will be immediately treated. Such sections should be purged off of plant and moss species that are food sources.</li> <li>Places suitable for birds to inhabit and nest will be determined and any old abandoned buildings and ruins open to nesting will be removed.</li> <li>Cleanliness of catering services buildings and facilities (including outdoor restaurants, cafeterias etc.) will be constantly inspected and bird-drawing aspects should be ensured to be removed.</li> <li>Trash carts and bins will be kept clean, disinfected regularly, open storing/keeping of wastes will be avoided, and necessary measures will be taken for ensuring the waste materials to be sent to waste storage sites outside of the airport in the fastest manner. In contracts made with waste handlers, land allocation to institutions and organizations and inspections, these provisions will be taken into consideration.</li> <li>PAT sites and their immediate vicinities will be completely purged off of any formations that may draw bird species.</li> </ul>	YDA ATM	Site inspections Check monitoring records	Maintaining existing flora and fauna Compliance with mitigation measures
<b>TRAFFIC AND TRANSPORT</b>						
Traffic Management	IFC PS3 IFC EHS General Guidelines Traffic Law Regulation on Highway Transportation	Construction and Demolition	<ul style="list-style-type: none"> <li>A Traffic Management Plan is recommended to be prepared in order to avoid adverse impacts resulting from in-site and off-site traffic,</li> <li>Safety and traffic signs will be placed in-site and off-site,</li> <li>Traffic will be scheduled to avoid local road network,</li> <li>Speed limits will be applied,</li> <li>Road safety training will be provided to drivers,</li> <li>Special loads will be carried with the approval of appropriate authorities,</li> <li>Training and licensing of industrial vehicle operators in the safe operation of</li> </ul>	YDA Contractor	Site and traffic route inspections Check vehicle maintenance records Check compliance with Traffic Management Plan	Compliance with Traffic Management Plan No accidents No grievance mechanism records/complaints for traffic



IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
	Highway Traffic Regulation  Regulation on Transportation of Dangerous Materials through Highway		specialized vehicles such as forklifts, including safe loading/unloading, load limits, <ul style="list-style-type: none"> <li>• Moving equipment with restricted rear visibility will be outfitted with audible back-up alarms,</li> <li>• Rights-of-way, site speed limits, vehicle inspection requirements, operating rules and procedures (e.g. prohibiting operation of forklifts with forks in down position), and control of traffic patterns or direction will be provided.</li> <li>• During transportation activities, existing roads will not be harmed; any materials that could put traffic safety in danger will not be thrown to the road such as smoke, unburned gas, dust, etc.; the vehicles will not be loaded more than the allowed limit; bridges, warning signs, headwalls, asphalt and stabilize coverings on village road will not be harmed. In case of any damage to these structures, the cost of the damage will be met by the contractor.</li> </ul>		Check grievance mechanism records for traffic	No damage to transportation routes
		Operation	<ul style="list-style-type: none"> <li>• A Traffic Management Plan is recommended to be prepared in order to avoid adverse impacts resulting from in-site and off-site traffic,</li> <li>• Safety and traffic signs will be placed for the new roads to be built,</li> </ul>	ATM  YDA	Site inspections  Check compliance with Traffic Management Plan	Compliance with Traffic Management Plan  No accidents  No grievance mechanism records/complaints for traffic
<b>WASTE AND HAZARDOUS WASTE MANAGEMENT</b>						
Waste Management	IFC PS3  IFC EHS General Guidelines  Regulation on General Principles of Waste Management	All Phases	<ul style="list-style-type: none"> <li>• Waste Management Plan (WMP) will be prepared for the new domestic terminal similar to the one prepared for international terminal. WMPs will be followed</li> <li>• All measures will be taken to prevent waste spills during transportation and storage.</li> <li>• Required measures will be taken for preventing the waste oils, which emerge from machinery to be used, from seeping into the soil</li> <li>• All recyclable materials are dismantled as per compliant dismantling method and discharged from the site.</li> <li>• During temporary storage of wastes for which the maximum temporary storage periods are determined, such storage periods will be monitored by the Environmental Officer with the aid of Waste Delivery Record Chart, and the wastes will be dispatched before the expiry of determined periods of times.</li> <li>• The hazardous wastes will be stored temporarily in the leakage-proof and secure containers conforming to the standards specified in the respective regulations for allowed time periods specified in the respective regulations. The date such as the name, code, quantity, storage in and out dates of the hazardous waste will be recorded by the Waste Storage Supervisor in the Waste Delivery Record Chart existing in the temporary storage areas.</li> <li>• There will be an overflow pool of 20-30 cm in the Hazardous Waste Site against any overflow of liquid wastes, and the barrels containing liquid waste are stored in a tray. Hazardous wastes will be stored in a way avoiding any chemical reactions.</li> <li>• The doors of storage sites will be kept locked continuously and only staff will be allowed to enter. There will be signboards for Hazardous Waste Temporary Storage Area and Danger Warning at the entrance.</li> <li>• The wastes will be stored in the Temporary Storage Site for the periods of time specified in the Waste Management Plan and so as not to exceed 1,000 kg per month, and the wastes that have reached the expiry date will be dispatched to the licensed firms within the frame of the defined rules. In case the amount of the wastes generated exceeds 1,000 kg monthly limit value, an application will be made to the Muğla Provincial Directorate of Environment and Urbanization for a Temporary Storage Permission.</li> <li>• There will be absorber kits / sawdust in order to collect the spilled waste immediately against the spillages and leakage of liquid wastes.</li> <li>• There will be indicators preventing the overflow of waste oil barrels in the storage room.</li> <li>• National waste transportation forms (UATF) will be kept for the transportation of hazardous wastes</li> <li>• Waste declarations will be made in a regulatory basis to Muğla Provincial Directorate of Environment and Urbanization</li> <li>• All received and sent transportation forms are kept for five years and made available when requested by the authorized administrations during audits.</li> <li>• Storage, transportation and disposal activities will be in compliance with national and</li> </ul>	ATM  YDA  Contractor	Site inspections  Check compliance with Waste Management Plan  Check records for waste disposal/transport  Visual inspections to ensure the proper segregation and storage  Records on regular trainings for personnel about proper collection, segregation and storage of wastes  Check National Waste Transportation Forms for transportation of hazardous materials	Compliance with Waste Management Plan and relevant legislations  No accidental spills/Proper measures taken for accidental spills  No contamination of soil or other receiving environment due to improper handling of waste

IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
			<p>international standards and good practice knowledge</p> <ul style="list-style-type: none"> <li>Equipments will be kept ready to be used in case of emergency.</li> <li>A work schedule will be prepared based on selective demolition principle. Any hazardous wastes in the structures to be demolished are disposed of in compliance with the provisions indicated under the "Regulation on Controlling Hazardous Wastes". For the purpose of protecting the health and safety of employees, a risk assessment is conducted prior to the demolition on the possibility of existence of hazardous chemical substances such as asbestos that may adversely affect human health. During the dismantling of structures where asbestos containing materials were used, principles indicated under the Regulation on the Health and Safety Measures for Works on Asbestos will be respected.</li> </ul>			
Excavated material- non contaminated	<p>IFC EHS General Guidelines</p> <p>Regulation on Control of Excavated Soil, Construction and Demolition Wastes</p>	Construction	<ul style="list-style-type: none"> <li>Top soil will be stripped off and transferred to open soil stock area and re-used for the landscaping works.40% of the excavated soil will be used for back filling</li> <li>Excess material will be transported to excavation waste storage area of Dalaman Municipality. Before transportation all legal permissions shall be taken</li> </ul>	<p>YDA</p> <p>Contractor</p>	<p>Site inspections</p> <p>Check protocol signed with the Municipality</p> <p>Check records for waste disposal/transport</p> <p>Visual inspections to ensure the proper segregation and storage</p>	<p>Compliance with Waste Management Plan and relevant legislations</p>
Demolition and Construction Waste- non contaminated ( used cables, metal scrapes, broken glass, steel, mixture of concrete, bricks, tiles and ceramics)	<p>IFC EHS General Guidelines</p> <p>Regulation on Control of Excavated Soil, Construction and Demolition Wastes</p>	Demolition	<ul style="list-style-type: none"> <li>Recyclable materials (steel, aluminium, glass etc.) will be collected separately and sent to the licensed recycle facilities.</li> <li>Vegetable soil stored at the beginning of construction phase will be layed on the soil according to design drawings.</li> <li>Other demolition wastes (ceramic, granite, concrete tiles etc.) will be transferred to excavation waste storage area of Dalaman Municipality. Before transportation all legal permissions shall be taken</li> <li>Non-recyclable construction wastes will be transported to Dalaman Landfill.</li> </ul>	<p>YDA</p> <p>Contractor</p>	<p>Site inspections</p> <p>Check protocol signed with the Municipality</p> <p>Check records for waste disposal/transport</p> <p>Visual inspections to ensure the proper segregation and storage</p>	<p>Compliance with Waste Management Plan and relevant legislations</p>
Construction Waste (i.e. cement bags, concrete, wooden crates, metal scrapes etc.)	<p>IFC EHS General Guidelines</p> <p>Regulation on Control of Excavated Soil, Construction and Demolition Wastes</p>	Construction and Demolition	<ul style="list-style-type: none"> <li>Recyclable ones will be collected separately and sent to the licensed recycle facilities.</li> <li>Non-recyclable construction wastes will be transported to Dalaman Landfill.</li> </ul>	<p>YDA</p> <p>Contractor</p>	<p>Site inspections</p> <p>Check protocol signed with the Municipality</p> <p>Check records for waste disposal/transport</p> <p>Visual inspections to ensure the proper segregation and storage</p>	<p>Compliance with Waste Management Plan and relevant legislations</p>
Domestic Solid Wastes and Packaging Wastes	<p>IFC EHS General Guidelines</p> <p>Regulation on Control of Solid Waste</p> <p>Regulation on Control of Packaging Waste</p>	Construction and Demolition	<ul style="list-style-type: none"> <li>Domestic solid wastes will be collected in closed bags or containers in the mobilization area and sent to solid waste separation facility inside the Dalaman Airport.</li> <li>Recyclable wastes (paper, plastic, glass and iron scrap etc.) and packaging wastes will be separated from domestic waste.</li> <li>Non-recyclable domestic wastes will be transferred to Dalaman Landfill.</li> <li>Recyclable wastes and packaging wastes will be delivered to the licensed recycling firms.</li> </ul>	<p>YDA</p> <p>Contractor</p>	<p>Site inspections</p> <p>Check records for waste disposal/transport</p> <p>Visual inspections to ensure the proper segregation and storage</p>	<p>Compliance with Waste Management Plan and relevant legislations</p>
	<p>Communiqué on Recycle of Some Non-hazardous Wastes</p>	Operation	<ul style="list-style-type: none"> <li>Domestic solid wastes will be collected separately in capped plastic containers within the terminal area and transported to solid waste separation facility inside the Dalaman Airport.</li> <li>Domestic wastes and packaging wastes from planes are taken by ground services and transferred to closed containers at solid waste separation facility.</li> <li>Recyclable wastes (paper, plastic, glass and iron scrap etc.) and packaging wastes will be separated from domestic waste.</li> </ul>	<p>ATM</p> <p>YDA</p>	<p>Site inspections</p> <p>Check records for waste disposal/transport</p> <p>Visual inspections to ensure the proper</p>	<p>Compliance with Waste Management Plan and relevant legislations</p>

IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
			<ul style="list-style-type: none"> <li>Non-recyclable domestic wastes will be transferred to Dalaman Landfill.</li> <li>Recyclable wastes and packaging wastes will be delivered to the licensed recycling firms.</li> <li>Domestic wastes mixed with packaging wastes coming from planes are taken by licensed recycling firms for separation and disposal.</li> </ul>		segregation and storage	
Waste Oils	IFC EHS General Guidelines Waste Oil Control Regulation	All Phases	<ul style="list-style-type: none"> <li>Required measures will be taken for preventing the waste oils, which emerge from machinery to be used, from seeping into the soil</li> <li>Waste oils will be analyzed in accordance with the Annex I of the Regulation, segregated and stored in leak-proof containers within temporary hazardous waste storage area. Colors of waste oil containers will be red and there will be a "Waste Oil" label on it.</li> <li>Firstly, recovery and re-use options will be assessed. If not possible, waste oils will be sent to the licensed recovery facilities by licensed carriers.</li> </ul>	ATM YDA Contractor	Site inspections Check records for waste disposal/transport Visual inspections to ensure the proper segregation and storage	Compliance with Waste Management Plan and relevant legislations
Vegetable Waste Oils	IFC EHS General Guidelines Regulation on Control of Vegetable Waste Oils	All Phases	<ul style="list-style-type: none"> <li>Vegetable waste oil will be segregated and collected in leak-proof barrels of which inner and outer sides are resistant to corrosion.</li> <li>Vegetable waste oils will be collected by competent waste oil collectors for recycling.</li> </ul>	ATM YDA Contractor	Site inspections Check records for waste disposal/transport Visual inspections to ensure the proper segregation and storage	Compliance with Waste Management Plan and relevant legislations
Hazardous Wastes (i.e. oily rags, empty containers of paints and chemicals, fluorescent lamp)	IFC EHS General Guidelines Regulation on Control of Hazardous Wastes	All Phases	<ul style="list-style-type: none"> <li>Hazardous wastes will be segregated and collected in the bonded, segregated containers within temporary hazardous waste storage area.</li> <li>Hazardous wastes will be sent to the licensed recovery/disposal facilities by licensed carriers.</li> <li>National waste transportation forms (UATF) will be kept for the transportation of hazardous wastes</li> </ul>	ATM YDA Contractor	Site inspections Check records for waste disposal/transport Visual inspections to ensure the proper segregation and storage Check National Waste Transportation Forms Check declaration records to the Ministry of Environment and Urbanization	Compliance with Waste Management Plan and relevant legislations No leakages to the soil or other receiving environment.
Waste Batteries Waste Accumulators	IFC EHS General Guidelines Regulation on Control of Waste Batteries and Accumulators	All Phases	<ul style="list-style-type: none"> <li>Waste batteries and accumulators will be segregated and collected in the bonded, segregated containers within a temporarily waste storage area.</li> <li>Waste batteries will be delivered to the replacing firm as a returnable material during replacement, or delivered to the authorized disposal firms upon contracting..</li> </ul>	ATM YDA Contractor	Site inspections Check records for waste disposal/transport Visual inspections to ensure the proper segregation and storage	Compliance with Waste Management Plan and relevant legislations
End-of-life Tires	IFC EHS General Guidelines Regulation on Control of End-of-life Tires	All Phases	<ul style="list-style-type: none"> <li>End-of-life tires will be segregated and collected within the waste separation facility .</li> <li>End-of-life tires will be collected by a competent carrier for recycling.</li> </ul>	ATM YDA Contractor	Site inspections Check records for waste disposal/transport Visual inspections to ensure the proper segregation and storage	Compliance with Waste Management Plan and relevant legislations
Medical Wastes	IFC EHS General Guidelines Medical Waste Control Regulation	All Phases	<ul style="list-style-type: none"> <li>Medical wastes will be segregated and collected in special containers within dedicated area.</li> <li>Medical wastes will be collected by the licensed firm.</li> </ul>	ATM YDA Contractor	Site inspections Check records for waste disposal/transport Visual inspections to	Compliance with Waste Management Plan and relevant legislations



IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
					ensure the proper segregation and storage	
Treatment Sludge	IFC EHS General Guidelines Communiqué on Recycle of Some Non-hazardous Wastes Regulation on Control of Hazardous Wastes	All Phases	<ul style="list-style-type: none"> <li>Treatment sludge will be segregated and analyzed to determine the proper disposal option.</li> <li>In case, the sludge is classified as non-hazardous, it will be sent to the Fethiye Landfill. If the sludge is classified as hazardous, it will be sent to the licensed recovery or disposal facility by licensed carrier.</li> </ul>	ATM YDA Contractor	Site inspections Check records for waste disposal/transport Visual inspections to ensure the proper segregation and storage	Compliance with Waste Management Plan and relevant legislations
PAT Field Wastes* (FOD Waste, Aircraft Tire Waste, Fuel and Oil Spill Waste, etc.)	IFC EHS General Guidelines Regulation on Control of Solid Waste Communiqué on Recycle of Some Non-hazardous Wastes Directive on Cleaning Procedures of Airport PAT Fields and Weed Control by DHMI Regulation on Control of Hazardous Wastes Directive on Cleaning Procedures of Airport PAT Fields and Weed Control by DHMI	Operation	<ul style="list-style-type: none"> <li>FOD wastes on PAT field will be removed by special track sweeping vehicles. Pat field and the vicinity where sweeping vehicles could not reach will be cleaned by cleaning staff.</li> <li>Recyclable materials such as screws, safety wires etc. will be collected in a separate container and delivered to the licensed recycling firms.</li> <li>Other wastes such as gravel, pieces of wood etc. will be transferred to waste containers.</li> <li>Residual tire wastes will be removed by high-pressure water technique which is basically keeping jets at oblique angle to the surface of the track.</li> <li>Wastewater resulting from cleaning will be collected by the same vehicle and disposed according to relevant regulatory framework.</li> <li>During fuel supply to aircrafts, necessary precautions will be taken to prevent spillage of fuel to the ground.</li> <li>In case of spillage special sand with absorption property will be used.</li> <li>In case of spillage used sand for absorption will be disposed as a hazardous waste</li> </ul>	ATM YDA	Site inspections Check records for waste disposal/transport Visual inspections to ensure the proper segregation and storage	Compliance with Waste Management Plan and relevant legislations
Asbestos	IFC EHS General Guidelines Regulation on Health and Safety Precautions for Working with Asbestos Regulation on Control of Hazardous Wastes	Demolition	<ul style="list-style-type: none"> <li>External service will be received from an accredited company which is expert on asbestos management in order to determine whether existing domestic terminal building contains asbestos.</li> <li>Asbestos containing materials will be collected by the trained and licensed contractors in line with regulatory requirements, stored at impermeable area not to cause soil and groundwater pollution and sent for the disposal</li> </ul>	YDA Contractor	Site inspections Check records for waste disposal/transport Check protocol with asbestos analysis/disposal firm	Compliance with relevant legislations
<b>WATER SUPPLY AND WASTEWATER MANAGEMENT</b>						
Water and Wastewater Management	IFC PS3 IFC EHS General Guidelines Water Pollution Control Regulation Law on Groundwater (Law No.167) Surface Water Quality Management Regulation Regulation on Monitoring of Surface Water and Groundwater Regulation on Protection of Groundwater	All Phases	<ul style="list-style-type: none"> <li>Wastewater generated at Dalaman Airport will be treated in the existing biological wastewater treatment plant. Discharge values of the treatment plant will be checked on monthly basis according the national regulation.</li> <li>Treated wastewater will be continued to be used for irrigation purposes throughout the Airport.</li> <li>In case the treated wastewater is not used for irrigation, wastewater treatment plant will be operated in order to meet the Standards for Discharging of Domestic Wastewaters to Receiving Environment which were given in Table 21.1 under Water Pollution Control Regulation, to meet Discharging Limit Values for Wastewater given in Annex 6 of Regulation for Water Products as well as IFC General EHS Guidelines.</li> <li>There will be no direct discharge to the receiving media</li> <li>Measures will be taken for minimization of water usage</li> </ul>	ATM YDA Contractor	Site inspections Check monitoring records Monthly sampling and laboratory analysis for the treated wastewater Seasonal sampling and laboratory analysis for the groundwater at the well	Compliance with standards for treated wastewater to be used for irrigation Compliance with Waste Management Plan Compliance with standards for groundwater
<b>CULTURAL HERITAGE</b>						
Archaeological Chance Finds	Code of Protection of Cultural and Natural Properties IFS PS8	Construction and Demolition	<ul style="list-style-type: none"> <li>If any cultural asset is found, Chance Find Procedure will be followed</li> <li>In case of archaeological find during construction works, all the construction activities in the area will be stopped.</li> <li>Responsible engineer will be alerted and the engineer will notify the nearest museum directorship, village headman or the local administrators within at the latest three days.</li> </ul>	YDA Contractor	Site inspections	Chance Find Procedure in place

IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
			<ul style="list-style-type: none"> <li>The village headman, the local administrator receiving such notification or the relevant authorities that are directly notified of such property shall take the necessary measures to protect and secure such property. The village headman shall notify the nearest local administrator as of the situation and the measures taken on the same day. The local administrator and other authorities shall notify in writing the Ministry of Culture and Tourism and the nearest museum directorship within ten days.</li> <li>Upon receiving this notification, the Ministry and Museum Director shall instigate due proceedings as soon as possible in line with the provisions of this law.</li> <li>In this process, immovable cultural and natural property to be protected and conservation sites shall not be interfered with physically or by any way of construction.</li> <li>Construction will continue when allowed by the responsible authority.</li> </ul>			
<b>SOCIAL</b>						
Employment and Labor Conditions	IFC PS1-PS2  Labor Law (No.4857)	Construction and Demolition	<ul style="list-style-type: none"> <li>A construction camp site will be built within project site for the personnel during construction activities.</li> <li>Living conditions of staff will be on national and international standards, hygienic environment will be ensured and for essential health services facility, district and provincial facilities will be utilized. The camp will be designed and operated in accordance with Workers' Accommodation: Processes and Standards: A Guidance Note by IFC and the EBRD.</li> </ul>	YDA  Contractor	Site inspections	Completion of IFC/EBRD Checklist on Workers Accommodation  Worker welfare, safety and security
	Workers' Accommodation: Processes and Standards: A Guidance Note by IFC and the EBRD	Operation	<ul style="list-style-type: none"> <li>Personnel Procedure, Staff Selection Procedure, Business Disciplinary Rules, Leave of Employment Procedure will be updated for new domestic terminal and these plans will be followed.</li> </ul>	YDA  ATM	Site inspections  Check monitoring records  Monthly meetings of YDA OHS/HR representatives	Updated plans in place
Occupational Health and Safety	IFC PS2  Labor Law (No.4857)  Regulation on Health and Safety	Construction and Demolition	<ul style="list-style-type: none"> <li>Project Company will implement HR policies in line with IFC PS2 expectations on aspects including workers organizations; collective bargaining; non-discrimination and equal-opportunities; retrenchment; child labor; forced labor; and, on non-employee workers and workers engaged by third parties.</li> <li>Surveys to identify the presence of asbestos are being conducted by a licensed firm currently. According to the result in case of asbestos presence, asbestos containing material will be removed from the site by licensed contractors in line with the relevant regulations.</li> <li>The mobilization area will be designed and operated in accordance with Workers' Accommodation: Processes and Standards: A Guidance Note by IFC and the EBRD.</li> <li>Occupational health and safety plan which aims to prevent accidents, injuries and work-related diseases through the identification of the causes of physical, chemical, biological and radiological hazards and by prioritizing hazard elimination, hazard control and hazard minimization will be fully implemented during the construction phase.</li> <li>Workers Grievance Mechanism in line with IFC PS2 given in will be implemented.</li> <li>Contractor Management and Monitoring Procedure will be followed by Project Owner (if applicable) in order to reduce the risk in relation to working with companies who are not performing in line with international standards and how they will monitor compliance.</li> <li>In order to prevent occupational accidents, required training will be given to employees to work within construction site. In addition to this, warning signs will be put in work area.</li> <li>In order to prevent employees from the impacts of dust, they will use dust masks. In addition to this, there may be some occupational accidents generated because of utilization of vehicle, tool or machine (roll – over, crashing, etc.). In order to prevent and decrease all these accidents, personnel will be trained and required warnings will be delivered, warning signs will be hanged on related areas.</li> <li>In order to prevent occupational accidents such as electric shock in works related with electric, especially in these works, qualified employees will be preferred and personnel will be informed about occupational safety.</li> <li>In order to stop contagious diseases in construction site, employees will be checked up periodically. In line with the regulation, workplace doctors (occupational physicians) will be found in constructional site.</li> <li>The ones who will use heavy construction vehicles within the project scope will be the educated ones who have certificate of competence.</li> <li>Social facilities to be built for personnel who will work within project site will comply with</li> </ul>	YDA  Contractor	Site inspections  Check monitoring records  Check training records of workers  Grievance records for workers  Monthly meetings between subcontractor and YDA OHS/HR representatives	Plans in place  Compliance with relevant legislations  No occupational accidents

IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
			<p>the technical and hygienic conditions.</p> <ul style="list-style-type: none"> <li>• There will be an infirmary within the site. Scotches and injuries will be treated here and more severe injuries will be treated in hospitals located in Dalaman and / or Muğla city center.</li> <li>• The staff will be trained on electricity, security, struggling with fire, and first aid. Some preventive equipment such as helmet, insulator gloves, and insulator boots will be provided to all the staff and this equipment will be controlled regularly and they will be renewed when necessary. Necessary warning boards will be located in necessary places in the facility.</li> <li>• In the facility, the electrical devices will be controlled regularly, and the necessary maintenance, repair and renewal processes will be made.</li> <li>• Detailed information about the measures to be taken against fires and explosions which are possible to emerge within the scope of activity and the steps to be taken in the case of such incidents given in "Emergency Response Plan".</li> <li>• Electricity system in the facility will be kept under control via leakage current relay in main remote control center and in a simplest electrical leakage, the electricity of all the system will be cut immediately.</li> <li>• The efficient work of all units in the facility and maintenance and repair transitions for the security will be made. Any effect or harm of maintenance and repair transitions will not be in current underground facilities.</li> <li>• Adequate lighting will be provided in the construction site.</li> <li>• The working hours in construction phase will be between 08:00 am - 6:00 pm. Double shifts may be implemented during peak construction activities. Staff will work by giving short breaks in working hours in order to eliminate the risk of work accidents that may arise due to decreased concentration.</li> <li>• Sufficient safety distance will be allowed for the pedestrians on the roads used to transport materials to the plant.</li> <li>• The entry of people who are not officers will be prevented to the areas where the chemicals to be used in the processes are stored. In order to be protected of the person authorized to enter dangerous areas, appropriate measures will be taken and these areas will be clearly defined.</li> <li>• The instructions given in the material security form will be applied to the person who touched the chemicals to be used in the processes and medical support will be taken immediately.</li> </ul>			
		Demolition	<ul style="list-style-type: none"> <li>• Facades of the structure to be demolished are surrounded by mobile or fixed screens and entrances/exits to/from the demolition site are taken under control.</li> <li>• Against the risk of materials that may fall during demolition reaching pedestrian and vehicle traffic, façade or facades of the structure that pose such risk are secured through safety scaffold. Any remaining open facades are covered with a protective net or similar material.</li> <li>• Personal protective gear is made ready for the personnel to be employed in the demolition site.</li> <li>• A shift control site is established for confirming those employed in the demolition left the demolition site.</li> <li>• Work health and safety training is provided to all personnel to be employed in the demolition work.</li> <li>• A safe and effective communication system is established for employees.</li> <li>• Necessary fire safety measures are taken and adequate fire combat gear is kept ready in the demolition site.</li> <li>• Emergency medical aid equipments are kept ready at the demolition site, along with rescue and emergency aid gear; a contingency plan and emergency exit plan are prepared and employees are informed of such plans.</li> <li>• Electricity, water, natural gas and telephone grid connections of the building to be demolished are shut down.</li> <li>• In respect to the possibility that the demolition site is unsuitable for respiration, environment is checked to select suitable equipments and the spaces are ventilated whenever necessary.</li> <li>• For the purpose of protecting the energy and telecommunication plants and systems, pavement and road coatings against damages through natural drainage, necessary precautions are taken.</li> <li>• In demolition works, a wireless radio connection suitable to the purpose is established in demolition works in order to create immediate and uninterrupted communication</li> </ul>	YDA Contractor	<p>Site inspections</p> <p>Check monitoring records</p> <p>Check training records of workers</p> <p>Grievance records for workers</p> <p>Monthly meetings between subcontractor and YDA OHS/HR representatives</p>	<p>Plans in place</p> <p>Compliance with relevant legislations</p> <p>No occupational accidents</p>

IMPACT/ PARAMETER	LEGISLATIVE FRAMEWORK	PROJECT PHASE	MITIGATION MEASURES	RESPONSIBILITY	MONITORING METHODOLOGY	Target/Evaluation Criteria
			<p>between the personnel employed in demolition and the technical implementation officer of the demolition work.</p> <ul style="list-style-type: none"> <li>A work schedule is prepared based on selective demolition principle. Any hazardous wastes in the structures to be demolished are disposed of in compliance with the provisions indicated under the "Regulation on Controlling Hazardous Wastes". For the purpose of protecting the health and safety of employees, a risk assessment is conducted prior to the demolition on the possibility of existence of hazardous chemical substances such as asbestos that may adversely affect human health. During the dismantling of structures where asbestos containing materials were used, principles indicated under the Regulation on the Health and Safety Measures for Works on Asbestos are respected.</li> <li>In the event there are sections such as LPG tank or petroleum tank with inflammable and combustible characteristics inside the structure to be demolished, no demolition or dismantling is realized until a safe gas discharge process is completed</li> <li>Inflammable and combustible materials that may arise due to dismantling and demolition materials are disposed in appropriate manner without being stored inside the site.</li> </ul>			
		Operation	<ul style="list-style-type: none"> <li>Macro Plan which includes possible physical hazards and mitigation measures are will be updated for the new domestic terminal.</li> <li>OHSAS 18001 Occupational Health and Safety Management System Policy developed by ATM for international Terminal will be updated for new domestic terminal and the policy will be complied.</li> <li>Emergency procedure developed by ATM for international Terminal will be updated for new domestic terminal and the procedure will be complied.</li> <li>Environmental Management System covering all the items of ISO 14001 and ISO 14064 Standards will be updated for new domestic terminal.</li> </ul>	YDA ATM	<p>Inspection of accident/incident records,</p> <p>Monthly meetings of OHS/HR representatives</p> <p>Check grievance records</p>	<p>Updated plans in place</p> <p>No complaints</p>
Community Health and Safety, Security	IFC PS 4	Construction and Demolition	<ul style="list-style-type: none"> <li>Community Safety Procedure will be followed.</li> <li>Personnel Behaviour Principles and Worksite Discipline Procedure will be followed</li> </ul>	YDA Contractor	<p>Site inspection</p> <p>Monthly meetings between subcontractor and YDA OHS/HR representatives</p> <p>Check grievance records</p>	<p>Plans in place</p> <p>No complaints</p>
		Operation	<ul style="list-style-type: none"> <li>Community Health and Safety, Security plan will be updated for new domestic terminal and the plans will be complied.</li> <li>Barrier-free certificate will be achieved for the new domestic terminal.</li> </ul>	YDA ATM	<p>Inspection of accident/incident records,</p> <p>Monthly meetings of OHS/HR representatives</p> <p>Check grievance records</p>	<p>Updated plans in place</p> <p>No complaints</p>
Stakeholder Engagement	IFC PS1	All Phases	<ul style="list-style-type: none"> <li>As described in the Stakeholder Engagement Plan, a grievance mechanism will be in place and all residential areas in the impact area will be informed by this mechanism. In addition, YDA will be the responsible company and a personnel is appointed for the community relations.</li> <li>ESIA, ESMMP, SEP and NTS will be disclosed and remain in the public domain for the lifetime of the Project.</li> <li>SEP will be updated regularly.</li> </ul>	YDA	<p>Grievance Log</p> <p>Evidence of grievance mechanism contact details on leaflets, signage and other public material</p> <p>Grievance records</p> <p>Document log</p> <p>Updated SEP</p>	<p>No complaints</p> <p>Sufficiently informed public</p>

\* Airside operations, aircraft and apron management issues are in responsibility of DHMI while daily management and operation of the terminals are YDA's responsibility. However, in order to make a cumulative assessment, these wastes are included in the scope.