

Appendix-K

Traffic Management Plan

TRAFFIC MANAGEMENT PLAN

1 Objectives and Scope

Traffic Management Plan is aiming to establish the responsibilities and requirements for regular traffic rules during construction and operation stages of the project.

The objectives of the Etlik IHCP Traffic Safety Management Plan are to:

- prevent and control traffic related injuries and fatalities related to project construction;
- minimize traffic congestion and maintain safe, fast, and easy access/egress by emergency vehicles; and
- minimize fuel consumption at all stages, including construction and operation.

2 General Principles

The Project Company will give particular attention to minimizing:

- traffic routes through communities;
- distance travelled by employees during construction; and
- distance over which equipment and goods are transported.

This will require the Project Company to inform and cooperate with UKOME, the Transportation Coordination Center of the Ankara Metropolitan Municipality, to prepare a Traffic Management Plan incorporating adequate signalization, selection of alternate routes, announcement of time intervals when heavy vehicle movements within the city will occur for material and/or machinery transport to/from the site.

3 Responsibilities

Project Manager has ultimate responsibility for all aspects of the Project, including the transportation system.

Site Manager is responsible for coordinating with Operations Traffic Manager regarding all transport and traffic activities at all activities of the construction phase of the Project. The Site Manager supports construction staff in the planning and coordination of traffic management activities in a timely and efficient manner.

Operations Traffic Manager (OTM) is responsible for the planning, development, implementation, revisions, and approvals with the relevant authorities (where required) of the Traffic Management Plan. The OTM plays the key role in traffic safety, and has the following responsibilities:

- Support the construction staff in the planning and coordination of traffic management activities in timely and efficient manner.
- Manage the day-to-day operations and work load of the traffic control team.
- Ensure the OH&S needs of all staff, especially traffic control team members, are met.
- Manage the day-to-day delivery of materials and entry of vehicles into site. this includes providing traffic control as required. Specific day-to-day tasks include:
 - o ensure that access is via only specified access routes;
 - o develop necessary plans for the timing of deliveries and access to avoid heavy traffic loads on main public roads, and
 - o ensure that compliance with local traffic regulations.
- Liaise with construction staff and traffic control teams, in the planning, coordination, and monitoring of traffic operations, and to facilitate the implementation of corrective actions.
- Prepare necessary reports, and maintain incident records and inspections logs.

Public Communication Officer (PCO) has the following responsibilities:

- Represents the Project for all community and stakeholder issues.
- Conducts stakeholder consultations and provides an ongoing public liaison role related to traffic planning.
- Prepares and distributes information regarding changed traffic conditions and patterns to road users, transport operators, and local communities.

All **environmental and operations staff** on the ground are trained to receive and transmit grievances to the PCO.

4 Construction Phase Traffic Management

4.1 On-Site Traffic Management

The following OHS measures for pedestrian workers, drivers, and operators will be employed during the construction phase:

- Some construction machines, such as loaders, dozers, cylinders, and graders have blind spots that put workers at risk-especially when workers are kneeling and bending. To avoid these risks, operators shall use signaler or watchmen when using such equipment.
- Pedestrian workers shall be kept away from heavy-duty machine work areas and other danger zones through the use of barricaded and marked walkways.
- A signaler shall be used to direct the movements of pedestrian workers.
- Signs will be placed on the equipment to warn operators and workers in the field.
- The public entrance shall be prohibited.
- Drivers and operators of equipment will use standard signs and labels, and will be trained to communicate with pedestrian workers, to quickly recognize

dangerous situations and responses, and to understand the maneuvering limitations and blind spots of vehicles and equipment.

4.2 Off-site Traffic Management

Off-site Traffic Management measures during construction stage will comprise following measures:

- Trucks and vehicles will be equipped with silencers to reduce noise.
- Drivers will be trained to avoid making unnecessary noise.
- Vehicles will be covered on the top in order to prevent dust generation.
- Trucks and wheels will be washed regularly in order to prevent mud and hence, dust on state roads.
- Overloading of the trucks will be prohibited.
- Drivers will be required to comply with the Turkish Traffic Legislation.
- Warning signs will be placed at roads and crossings as necessary, to alert non-Project drivers and pedestrians of the presence of Project traffic.
- All vehicles will use snow tires during the winter months.

The use of the two heliports on the Site will be subject to permits to be granted by General Directorate of Civil Aviation.

5 Regular Trainings

The OTM will ensure that all drivers are trained in accordance with driver training requirements. The OTM will approve Project driving certificates for each driver and for each type of vehicle based on drivers' skills and knowledge of driving rules and other contents of driving training. Regular trainings will include topics related to Project EHS requirements, driver training, and Project EMP requirements.

6 Road and Vehicle Maintenance

The OTM is responsible for monitoring the condition of the roads used by project traffic. The OTM is also responsible, on behalf of the Project Company, for ensuring that these roads are maintained in a condition at least as good as the pre-construction conditions, to the satisfaction of authorities and landowners.

OTM will ensure that all vehicles are maintained in accordance with the manufacturers' specifications, and are in compliance of vehicles with all applicable safety related specifications.

7 Community Relations and Community Safety

The Site Manager will ensure that traffic management measures are planned and implemented in accordance with the needs of day-to-day users of the traffic routes. The OTM is responsible for informing the public of likely adverse Project-related traffic impacts throughout the Project.

8 Operation-Phase Traffic Management

Operations-phase Traffic Management Plans for on-site and off-site traffic will be developed and implemented in consultation with UKOME, and will be updated regularly as site demands change. The OTM will monitor traffic conditions, traffic congestion, and site conditions daily, and will review grievances filed by the public. The Project Company will develop a standardized daily checklist and/or reporting form for use by the OTM.

Other recommended traffic management actions include:

- Develop formal procedures to assist UKOME with regular traffic counts, mass transit surveys, and traffic data analyses, to ensure ongoing monitoring of traffic volumes.
- Develop formal coordination with UKOME in order to provide traffic data to be used in the ongoing project of the mater traffic plan of Ankara (being conducted by Gazi University) for regulating the city traffic with respect to the current and future loads in relation with new urban development projects such as Etlik and Bilkent IHC Projects as well as large shopping malls and housing complexes. .
- Work with UKOME to refine transit service to the Project site, to minimize the number of overall vehicle trips to the site.
- Conduct periodic day-long counts of parking usage, to ensure that private vehicle parking is adequate. Ensure that signage directs visitors and staff to all available parking facilities, to avoid the perception of a lack of parking.
- Designate remote parking facilities for hospital staff, reserving closer parking spaces for patients.