



**SCREENING CHAPTER 27
ENVIRONMENT**

**AGENDA ITEM: ENVIRONMENTAL NOISE
DIRECTIVE 2002/49/EC**

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INTRODUCTION

Noise control was regulated by a By-law published in 1986.

The By-law was repealed by the By-law on Assessment and Management of Environmental Noise which is in line with the Directive (2002/49/EC).



LEGISLATIVE FRAMEWORK

By-law on Assessment and Management of Environmental Noise

The By-law was issued for efficient monitoring and implementation of the sanctions to control the undesired detrimental environmental noise spreading out from ;

- Transportation (*roads, railway, sea route and airport*),
- Industrial installations,
- Entertainment facilities,
- Construction site activities,
- Atelier, factory, office and etc. activities
- Indoor noises that have negative effect on humans



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

By-law identifies basis and criteria about;

- environmental noise exposure,
- damages on the buildings caused by vibration,

in built-up areas, in public parks and other quiet areas in an agglomeration, in quiet areas near schools, hospitals and other noise-sensitive buildings and areas.



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Exemptions:

- The noise level of the transportation vehicles, and device, equipment and machinery used at industrial installations, open areas and households,
- The level of noise and vibration exposure on the workers in the installations which fall under the scope of the Labour Law.



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Institutional Framework:

- Ministry of Environment and Forestry (MoEF)(Article 6)
- Governorships (Article 7)
- Municipalities (Article 8)
- Ministry of Health (Article 9)
- Ministry of Transport (Article 10)
- Ministry of Public Works and Settlement (Article 10)



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Choosing Noise Indicators

Noise indicators are defined as; L_{den} , L_{day} , $L_{evening}$ and L_{night} . (article 4, article 19, annex-I)

Supplementary noise indicators are also allowed to be used by the By-law in Annex I.

LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Establishing the Noise Assessment Methods-Calculation Methods (Annex-II)

- For Industrial Noise: ISO 9613 – 2
Appropriate noise diffusion data (input data) are provided by the measurements based on;
 - ISO 8297
 - TS EN ISO 3744:
 - TS EN ISO 3746:1995
- For Aircraft Noise : ECAC. CEAC
- For Road Traffic Noise : French Calculation Method
- For Railway Noise : Netherlands Calculation Method



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Establishing the Noise Assessment Methods- Measurement Methods

Measurements will be done in accordance with the principles defined in;

- TS 9798 (ISO 1996 – 2) and
- TS 9315 (ISO 1996 – 1) standards



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Establishing the Noise Assessment Methods- Determination of Detrimental Effects

- Relation between annoyance and L_{den} ,
- Relation between sleeping disturbance and L_{night} ,

will be used for road, railway and airway traffic noise, and industrial noise (Annex-III).

The manual on exposure analysis of dose-effect relation shall be prepared by the MoEF, in coordination with the Ministry of Health (Articles, 6, 9, 20).



IDENTIFYING AREAS CONCERNED BY THE STRATEGIC NOISE MAPS AND ACTION PLANS

Areas (1 st Category)	Year	Areas (2 nd Category)	Year
agglomerations (population more than 250 thousand)	will be defined until 2011 (Article 32)	agglomerations (population more than 100 thousand)	will be defined until 2014 (Article 32) by the institutions that are responsible for the preparation of noise maps and action plans.
main roads (more than 6 million vehicles per year)		main roads (more than 3 million vehicles per year)	
main railways (more than 60 thousand trains per year)		main railways (more than 30 thousand trains per year)	
for major airports			



PREPARING STRATEGIC NOISE MAPS

Areas (1 st Category)	Year	Areas (2 nd Category)	Year
agglomerations (population more than 250 thousand)	will be prepared until 2013 (Article 32)	agglomerations (population more than 100 thousand)	will be prepared until 2018 (Article 32) by the institutions that are responsible for the preparation of noise maps.
main roads (more than 6 million vehicles per year)		main roads (more than 3 million vehicles per year)	
main railways (more than 60 thousand trains per year)		main railways (more than 30 thousand trains per year)	
for major airports			



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Establishing Public Consultation Procedures on Proposed Action Plans

Pursuant to the Article 33, effective opportunities are provided for public participation in preparation and revision of action plans.

These action plans are subjected to public consultation by the organizations responsible to prepare them.

The results of consultation have to be taken into consideration and public must be informed about the decisions.



PREPARATION OF ACTION PLANS

Areas (1 st Category)	Year	Areas (2 nd Category)	Year
agglomerations (population more than 250 thousand)	will be prepared until 2014 (Article 33)	agglomerations (population more than 100 thousand)	will be prepared until 2019 (Article 33) by the institutions that are responsible for the preparation of action plans
main roads (more than 6 million vehicles per year)		main roads (more than 3 million vehicles per year)	
main railways (more than 60 thousand trains per year)		main railways (more than 30 thousand trains per year)	
•for major airports			



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Establishing Procedures for Provision of Information to the Public

- Procedures for provision of information to the public are established in accordance with Article 34.
- Strategic noise maps and action plans are required to be announced to public opinion via using information technologies in accordance with the Law No. 4982 on the Right of Access to Information.
- The information should be clear and easily accessible. A brief abstract summarising the most important points should be issued in at least one national newspaper with a high circulation and in a local newspaper.



LEGISLATIVE FRAMEWORK (CONT'D)

By-law on Assessment and Management of Environmental Noise

Monitoring and Assessment of Noise Resources

According to the By-law, the planned activities subject to the Environmental Impact Assessment should be assessed in terms of the noise diffusion.

Noise Control Permission Certificate (NCPC) should be provided for the activities causing noise pollution (Article 38).

- Installations listed in Annex-VII, List A: NCPC is given by the MoEF (This list is comply with IPPC Annex-I).
- Installations listed in Annex-VII, List B: NCPC is given by the municipalities or governorships.



STUDIES AND PROGRESS

A project on 'Strengthening the Capacity of the MoEF in the Field of Noise Management' was initiated in March 2006.

Overall objectives of the project are

- Strengthening of institutional and administrative capacity,
- Review of the By-law to meet the requirements of EU noise directive,
- Implementation of five pilot projects, including noise maps and action plans.
- Preparation of a master plan for Turkey, including cost of implementation and requirements for best administrative structure.



STUDIES AND PROGRESS (CONT'D)

Training programs have been carried out for technical staff working at municipalities, governorships and relevant ministries (local, regional and central level) in collaboration with universities in order to implement the By-law and strengthen the institutional capacity.



FURTHER ACTIONS

- Strengthening of technical and administrative infrastructure
- Development of noise measurement quality system
- Determination of investment requirements for the implementation of the By-law,

One of the main challenges is the financial need for the preparation of noise maps and action plans.



Thank you for your attention