



DEPARTMENT OF LABOUR INSPECTION

ANNUAL REPORT 2020



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I. INTRODUCTION

The mission of the Department of Labour Inspection (DLI) of the Ministry of Labour, Welfare and Social Insurance is to safeguard suitable and sufficient levels of safety and health at work for all employed persons, the protection of the public from work activities, the preservation of air quality and its improvement when it is necessary, as well as the protection of the public and the environment by effectively controlling air industrial pollution, the safety of petroleum installations, the risks of major accidents and the risks arising from the use of chemical substances, ionizing radiation and offshore oil and gas activities.

In order to achieve the above mission, the DLI implements a specific strategy that includes the existence of an adequate and integrated legislative, institutional and organizational framework, the implementation of an appropriate licensing system, where applicable, inspection and enforcement of compliance, provision of continuous updating and information to workers and the public, training and education of DLI staff, use of economic and voluntary tools, participation in European and / or international organizations, the integration of its competences into other policy areas, such as education, employment, agriculture, the environment, etc., encouraging progress and research, as well as cooperation with the social partners and other stakeholders.

The DLI's vision is to become an excellent organization of prestige that will provide citizens and the country with quality services with a very high level of efficiency and productivity.

The DLI has at its Headquarters the Safety and Health at Work Sector and the Radiation Protection, Environmental Issues and Equipment Sector. In addition, the Department has District Offices in Nicosia, Limassol, Larnaca, Pafos and Ammochostos. In the Department, there were in total, 85 posts in 2020, of which 24 (28%) were vacant. These posts did not include temporary and seconded staff, the occupational physician and administrative, secretarial, accounting and computer support staff. The organizational chart of the DLI is presented in **Chart 3.1.** of the **Appendix.**

The DLI in 2020, was entrusted with the implementation of the 362 pieces of legislation, for which it was the competent authority, having a reduced number of available staff.

A. Safety and Health at Work Sector

The Sector deals with all safety and health at work issues regarding the protection of life, health and wellbeing of workers at workplaces, as well as the protection of other persons who may be affected by

work activities. The main competences of each of the 4 Sections of this Sector are the following:

A.1. Awareness Raising and Horizontal Issues Section

The Section on Awareness Raising and Horizontal Issues was established in order to better promote the issues of information dissemination, training and awareness raising regarding Safety and Health at Work. The Section is responsible for the operation of the Training Centre, for monitoring the activities and obligations of the DLI with regards to the European Agency for Safety and Health at Work, for the approval of the Safety Officers and the monitoring of their training and the evaluation of the work performed by them, as well as for the functioning of the Pancyprian Council for Safety and Health, and the handling of issues regarding Approved Persons who offer preventive and protective services. The Section also coordinates the statistical processing of the data and the management of the computerized system of the DLI.

A.2. Services and Chemical Industry Section

The Chemical Protection and Safety of Services Section has the following main responsibilities:

- ❖ Supervising the implementation and enforcement of the Chemicals Legislation, a legislation that covers issues related to the manufacture, import, export, use and placing of chemical products on the Cyprus market. The Officers of the Chemical Substances Section participate in various activities of the European Chemicals Agency (ECHA) in order to promote the harmonised and effective implementation of the chemicals legislation throughout the European Union.
- ❖ Overseeing the implementation of the legislation on health and safety at work of employees and other affected persons in the chemical and pharmaceutical industry, chemical storage, private sector services, including state and private hospitals, education, transport, commerce, as well as municipalities and communities. Additionally, the Section deals with issues related to the health hazards of workers from their exposure to chemical, biological, carcinogenic and mutagenic agents, as well as exposure to physical agents such as noise, vibrations etc.
- ❖ The inspection, control and licensing of liquid petroleum storage facilities.
- ❖ The prevention of large-scale accidents, that could be caused due to the storage or use of hazardous chemicals in installations. In the Section there is a special Unit that deals with this issue.
- ❖ The safety of offshore oil and gas operations with the aim of preventing serious accidents and dangerous incidents during such offshore operations and reducing the consequences of such incidents. In the Section there is a special Unit that deals with this issue.

A.3. Manufacturing and Construction Section

The Manufacturing and Construction Section is engaged in the organization, management of safety and health at work and the safety and health requirements of workplaces and work equipment that must be met. It also deals with the preparation and monitoring of the inspection program, the monitoring of court cases, the coordination and carrying out of inspections in the construction industry, the mining and quarrying industry, the manufacturing industry, the public sector, as well as in farming activities. In addition, the Section deals with issues regarding the prevention of risks and protection from exposure to asbestos and thermal load, as well as, consultation with the competent authorities for issuing building permits, certificates of final approval and planning permits. Moreover, the Section is engaged with the coordination of the unit for the control of working hours and rest periods for drivers of certain vehicles. Finally, the Section is engaged with supporting activities of the DLI that include computer equipment and other equipment (e.g. scanners, photocopy machines, cameras) and the monitoring of the fire safety, security and access systems in the building.

B. Radiation Protection, Environmental Issues and Equipment Sector

The Sector deals with the protection of workers, the public and the environment against risks related with machinery, equipment, radiation and industrial air emissions. It also deals with all issues related to air quality. The main competences of each of the 4 Sections of this Sector are the following:

B.1. Machinery and Equipment Section

The Machinery and Equipment Section operates a Machinery, Pressure Vessels and Lifts Unit, which deals with the inspection and certification of inspectable machinery and pressure vessels such as steam boilers, steam receivers, cranes, hoists, overhead travelling cranes and air receivers. This Unit also enforces the legislation that regulates the operation, maintenance and periodic audit of lifts. Furthermore, this Section is responsible for the surveillance of the Cyprus market to safeguard the free movement of specific products, which satisfy the safety and health requirements of the European Union Directives or Regulations bearing the CE mark. Such categories of products include: (i) Pressure Equipment, (ii) Simple Pressure Vessels, (iii) Machinery, (iv) Lifts, (v) Personal Protective Equipment, (vi) Equipment and Protective Systems for Use in Explosive Atmospheres and (vii) Noise Emission in the Environment by Equipment for Outdoors Use. Moreover, the Section deals with the inspection, control and licensing of Liquefied Petroleum Gas (LPG) installations and storage facilities as well as LPG vehicle refueling stations.

B.2. Radiation Protection Section

One of the objectives of Industrial Air Pollution Sector is the licensing of industrial plants that pollute the atmosphere. Another objective is the monitoring and control of air pollution which arises from

industrial installations air emissions, e.g. petrol stations and dry cleaning installations, so that the best possible protection of the health and welfare of the citizens and the protection of the environment of the Republic is safeguarded.

B.3. Industrial Air Pollution Control Section

The Section of Industrial Pollution Control deals with the permitting of industrial installations which pollute the atmosphere. The Section also deals with monitoring and control of air pollution caused by substances emitted into the atmosphere during the operation of industrial installations, such as dry cleaners, and vehicle fuel stations so as to safeguard the protection of the health and welfare of the citizens and the protection of the environment.

B.4. Air Quality and Strategic Planning Section

The Air Quality and Strategic Planning Section deals with the continuous monitoring and information for the levels of specific pollutants in the ambient air, as well as with the assessment and management of the air quality, in order to secure, as practically possible, the protection of the health and well-being of workers and citizens and the protection of the environment. Additionally, the Section deals with the formulation and monitoring of the implementation of the Strategic Plan of the Department.

II. WORK CONDUCTED DURING 2020

1. SAFETY AND HEALTH AT WORK SECTOR

1.1. Workplace Inspections

A main activity of the Safety and Health at Work Sector consists of carrying out inspections, for the enforcement of the provisions of the labour legislation falling within the competency of the DLI. According to the annual inspection program of DLI, as shown in **Table 3.1** of the **Appendix**, inspections in various economic sectors, as well as specific activities and focused campaigns were carried out during 2020.

To better conduct the specific campaigns, special questionnaires, informational material and instructions were conveyed to the mass media and all concerned parties and additionally were posted on the DLI website.

During 2020, the Inspectors carried out 6.037 inspections in 4.027 different undertakings for safety and health matters at workplaces whereas during 2019, 3.696 such inspections were carried out in 2.731 different undertakings. **Table 3.2** of the **Appendix**, contains the inspections carried out in 2020 analytically, by economic activity and district. Furthermore, during 2020, 232 letters were sent to

employers, self-employed persons or other persons requiring them to take measures against contraventions of the legislation that were found during inspections, in contrast to 430 which were sent during 2019. In addition, in 2020, 55 Improvement Notices and 270 Prohibition Notices were issued while in 2019, 106 Improvement Notices and 130 Prohibition Notices were issued by Inspectors.

1.1.1. Inspections regarding the COVID-19 Pandemic

In 2020, during the period from 4.5.2020 until 31.12.2020, the Inspectors conducted inspections to control the implementation of measures to limit the spread of the coronavirus. Also, DLI had the coordination of the inspections carried out, for the same purpose, in premises of the retail trade, by personnel of other Services / Departments of the Public and broader Public Sector. A total of 3.788 inspections were carried out by the Inspectors of the DLI.

In the retail trade, a total of 24.741 inspections were carried out by the DLI and the staff of other Services / Departments of the Public Sector, which were coordinated by the DLI. More information is given in section 1.25.

1.1.2. Investigation of Complaints with regard to Health and Safety Issues

During 2020, more than 500 complaints that submitted orally and / or in writing by citizens with regard to occupational safety and health issues were investigated.

1.1.3. Issue of Registration of Premises, Installations, Enterprises and Work Places

During 2020, following the examination of relevant applications and on the spot inspections, the DLI issued 43 Certificates of Registration of premises and work places, under the Safety and Health at Work (Registration of Premises, Installations, Enterprises and Work Places) Regulations of 2019. It is noted that during 2019, 49 Certificates of Factory Registration under the Factories Law, Cap. 134 and 12 Attestations were issued. Also in 2020, 12 Certificates to Private Hospitals / Clinics were issued / renewed after inspection.

1.1.4. Measurements of Physical and Chemical Agents

The Sector maintains a laboratory with instruments for the direct or indirect measurement of physical and chemical agents. In 2020, in the framework of surveillance of health and safety legislation, a total of 320 measurements of physical and chemical agents were carried out. The following Table shows in detail the measurements made for each physical or chemical agent.

Table 1: Measurements per physical or chemical agent in 2020

No.	Temperature	Noise	Lighting	Combined Air Rate (Air Changes)	Suspended particles (dust)	Carbon Dioxide (CO ₂)	Ozone (O ₃)	Ammonia (NH ₃)	Organic volatile compounds (VOCs)
Number of Measurements	20	0	0	20	20	20	20	20	20

No.	Humidity	Chlorine (Cl ₂)	Hydrogen Sulphide (H ₂ S)	Carbon Monoxide (CO)	Nitrogen Dioxide (NO ₂)	Sulphur Dioxide (SO ₂)	Lower Explosive Limit (LEL)	Oxygen (O ₂)	Formaldehyde (HCHO)
Number of Measurements	20	20	20	20	20	20	20	20	20

1.2. Prosecutions

In 2020, the trials of 11 cases concerning 60 breaches of Labour Laws of the safety and health of workers at the workplace and other persons affected by work activities were completed. The fines imposed upon those who were convicted in 2020 totalled to €63.250, compared to €87.050 in 2019 concerning the trials of 12 cases.

The number of penal cases, the relevant legislation breached by the offenders, as well as the fines imposed by the Courts in year 2020 in comparison to years 2017-2019, are illustrated in **Table 3.3** of the **Appendix**. Additionally, in 2020, a total of 19 new penal cases were compiled by DLI and sent to the Legal Service of the Republic for approval and submission.

1.3. Analysis of Notified Work Accidents and Dangerous Occurrences

1.3.1. Accidents to employed persons during their work

During 2020, a total of 1.527 accidents which occurred to employed persons during their work were notified to the DLI. **Table 3.4** of the **Appendix** presents an analysis of accidents by section of economic activity, gender, age, degree of injury and cause of accident. In **Figure 3.1** of the **Appendix**, accidents are categorized by sector of economic activity. As shown in the figure, the biggest number of accidents during 2020 occurred in the Construction sector with a percentage of 21,55%, followed by the sector of Accommodation and Food Services (Hotels & Restaurants) with a percentage of 18,73%, the sector of Manufacturing Industries with a percentage of 17,35% and the sector of Wholesale and Retail Trade and Repair of Motor Vehicles and Motorcycles with a percentage of 15,00%. **Figure 3.2** of the **Appendix** presents the annual number of notified work accidents for the period 2009 – 2020. In **Figure 3.3** of the

Appendix, accidents at work during 2020 are analyzed by cause and are categorized in five basic categories (buildings/installations, machinery/equipment, transport means, materials/substances and other causes).

Tables 3.5 to 3.7 of the **Appendix** present analysis of the fatal accidents, which occurred during 2020, by district, economic activity and cause. These tables present the accidents occurred to employed persons during the course of their work, as well accidents to employed persons during the normal journey between home and the place of work (commuting accidents). Additionally, they present accidents occurred to third persons (not employed), but arose out of work activities. During 2020 a total of 13 fatal accidents occurred to employed persons during the course of their work, as well as 1 commuting accident to employed person and 1 fatal accident to person out of work (not employed), but arose out of work activities. In **Figure 3.4** of the **Appendix**, the annual number of fatal accidents to employed persons during their work which were notified during the period 2009-2020 is shown.

As it is shown in the **Appendix (Figure 3.5)**, the Average of the Frequency Index (number of accidents per 100.000 employed persons) for accidents which occurred to employed persons during the course of their work for year 2020, was 425,7. This Figure presents also the average of the Frequency Index by section of economic activity. It is noted that this refers to preliminary and not final results. This is due to the fact that the “Number of Employed Persons” used in calculating the Frequency Index, is based on the results of the Labour Force Survey of the Statistical Service for first, second and third trimester (mean value) and not on the overall results (mean value) for the whole year. These data were not available at the time of preparation of this Report. It is noted that the final Frequency Index of Accidents at Work for year 2019 (Mean Value) was 602,9.

In **Figure 3.6** of the **Appendix**, the change in the frequency index (Annual Mean) is presented for the period 2009 - 2020, as well as the number of accidents and employed persons for the same period. Conclusively, the frequency index during the period 2009 - 2020 decreased by 41,3% and the number of accidents by 31,4%, while during the period 2019 - 2020 the frequency index decreased by 29,4% and the number of accidents decreased by 29,6%.

Regarding the above data concerning a large reduction of both the number of reported Accidents and the Accident Frequency Index observed during the period 2019-2020, it should be noted that this is obviously due to the special situation that developed in general in 2020 due to pandemic, which has led to a significant reduction in activities in most sectors of the labour market. Therefore, it is not tempting to compare the results of the year 2020 with previous periods for safe conclusions regarding the levels of safety and health in the workplace, with the sole criterion being the number of accidents and the Frequency Index. The table below shows comparative data regarding the reduction of the number of accidents in the years 2019 and 2020 in the main economic activities.

Table 2: Comparison of Number of Accidents 2019 - 2020

SECTION OF ECONOMIC ACTIVITY	2019		2020		2019 - 2020	
	No. of Accidents	Percentage (%)	No. of Accidents	Percentage (%)	Reduction (Number)	Reduction (%)
MANUFACTURING	378	17,44	265	17,35	-113	-29,90
CONSTRUCTION	333	15,36	329	21,55	-4	-1,20
WHOLESALE AND RETAIL TRADE	312	14,39	229	15,00	-83	-26,60
TRANSPORT AND STORAGE	149	6,87	95	6,22	-54	-36,20
HOTELS & RESTAURANTS	572	26,38	286	18,73	-286	-50,00
ALL ECONOMIC ACTIVITIES	2.168		1.527		-641	-29,60

Regarding the severity of accidents that can in some way be identified as the days of the victim's absence from work due to the accident, it is noted that the average number of days of absence in all economic activities in 2019 was 24 compared to 22 in the year 2018 and 23 in the year 2017. The relevant data concerning the accidents of the year 2020 were not available until the date of completion of this report and will be announced in the Annual Report of the Department for the year 2021. As shown in the table below, in terms of the most important economic activities, the most serious accidents occurred in order in the following areas:

Table 3: Average days of victim's absence from work (employees)

Economic activity	2017	2018	2019
Construction	28	26	30
Manufacturing	26	24	23
Wholesale and Retail Trade	24	22	18
Transportation and Storage	21	22	29
Hotels & Restaurants	17	18	20

1.3.2. Other Accidents notified to the Department of Labour Inspection

During 2020, additional 67 accidents were notified to the DLI, according to the relevant legislation [7 to self-employed persons, 1 to person out of work and 59 during the normal journey between home, and the place of work (commuting accidents)].

1.3.3. Analysis of Notified Dangerous Occurrences

In 2020, 23 dangerous occurrences regarding work place incidents were notified to the DLI as follows: 6 contact with an overhead electric line, 5 fire / explosion, 5 collapse of scaffolding, 2 explosion of a closed pressurized vessel, 1 leakage of substances, 1 collapse of buildings / structures, 1 release of biological substances and 1 ground collapse.

1.4. Occupational Diseases Prevention Unit

During 2020, 3 cases of occupational diseases were notified in an approved form to the DLI and investigated. All of these cases were related with carpal tunnel syndrome of employed persons. Additionally, the Occupational Physician Counselor in close collaboration with Labour Inspectors investigated other 2 cases of diseases possibly related with working conditions and working environment of affected persons. These diseases were related with 1 case of neuritis of oculomotor nerves toxic etiology and 1 case of chronic ocular syndrome with reduced vision. The DLI had also conducted additional investigation in matters of its competence on some cases of endophthalmitis of patients operated in a private hospital. In addition to the above cases, during 2020, 6 new cases of mesothelioma registered by the Cancer Registry of the Ministry of Health and 4 new cases of mesothelioma registered by the Cancer Registry of the Oncology Center of Bank of Cyprus were notified to the DLI.

1.5. Providers of First Aid at Work Training Courses

For the provision of first aid at work training programs, the Chief Inspector renewed the licenses of 24 existing providers according to procedures applied by the DLI.

1.6. Surveillance of Workers' Health

The DLI continues the enforcement of the Safety and Health at Work (Medical Examinations for Asbestos) Order of 2018 (R.A.A.184/2018) and of the Safety and Health at Work (Medical Examinations for Dockwork) Order of 2018 (R.A.A. 185/2018). Companies that perform certain activities at ports and companies that have license to perform activities related to insulation and coating of asbestos, have been contracted with occupational physician for the surveillance of their workers and for the implementation of the medical examinations defined in the above Orders. During 2020, a new Ministerial Ordinance has been approved related to medical examinations for climbers at mast and poles and all related employers performing such activities were informed for their obligation to contract with occupational physician and to apply all the relevant provisions of the Directive for the surveillance of workers' health. Alongside and in the framework of preparation of new Ministerial Ordinances for medical examinations in other categories of workers or working activities, the DLI is preparing draft Ministerial Ordinances for medical examinations for activities with plant protection products of professional users and activities with cytostatic drugs in the health care sector.

With raising awareness of employers on the benefits of the provision of services by occupational physician in companies, the number of occupational physicians in Cypriot companies is expected to be increased gradually. Based on the information and data held by the DLI until 2020, more than 40 companies contracted occupational physician for the provision of health surveillance services to employees.

1.7. External Services for Protection and Prevention

During 2020, based on the prescribed Minimum Required Qualifications, the Chief Inspector granted 5 initial approvals. In the cases of 2 candidates, the DLI requested further proof of possession of all the prescribed Required Qualifications. Also, during the course of the year, the approval of 4 Approved Persons was terminated due to infractions of their Terms of Approval and /or the relevant legislation that governs External Services of Prevention and Protection, and / or due to their own decision to withdraw from the Register.

On 31.12.2020, the relevant Register contained a total of 91 Approved Persons for the provision of External Services of Protection and Prevention. Finally, during 2020, the annual inspection campaign of Approved Persons continued, focusing on the quality of the deliverable work undertaken by these Persons on behalf of employers and /or self-employed persons.

Based on the findings of the competent Committee of Senior Labour Inspectors of the European Union (known as SLIC), which carried out an assessment of the Labour Inspection System of Cyprus during 2019, the DLI continued its work to upgrade the External Services framework.

1.8. Activities to reduce work accidents and occupational diseases in the construction sector

1.8.1. Action Plan

Under the Joint Policy Statement on the reduction of work accidents and occupational diseases in the construction sector, the DLI continues to implement since 2013 a specific Action Plan.

In addition, an Action Plan is being implemented to reduce accidents, which was drafted by the Pancyprian Safety and Health Council and includes actions based on the suggestions of social partners and other members of the Council.

1.8.2. Technical Committee for Training of Workers who work at Height

The activities of the Technical Committee include the preparation of a Table concerning the training programs for Work at Height offered in Cyprus. This information will be evaluated by the members of the Technical Committee within 2021 for next steps including the drafting of the relevant Decree to be

issued in accordance with the provisions of the Safety and Health at Work (Minimum Requirements for Temporary or Mobile Construction Sites) Regulations of 2015 (P.I. 410/2015). The Decree will include requirements regarding adequate special training and experience of workers involved in the installation, assembly, modification and disassembly of scaffolding. Due to the COVID-19 pandemic, no meeting with physical presence of the Committee took place in 2020.

1.8.3. Working Group for Metal Constructions Works

Within 2020, a meeting of the above Working Group was set up and coordinated by DLI in order to prepare a document with Special Terms for the safe construction of metal structures, which can be incorporated in the contracts for construction and technical works. During the meeting, a sub-working group was set up to prepare the draft document. Due to the COVID-19 pandemic, not any meeting of the Committee with physical presence took place in 2020.

1.8.4. Collaboration with University Institutions in order to inform students about Health and Safety at Work

Within 20120, Cyprus University of Technology students in the field of Civil Engineering were trained about health and safety issues. The trainings were carried out by Labour Inspection Officers of the DLI.

1.8.5. Joint Technical Committee between the Department of Labour Inspection (DLI) and the Cyprus Scientific and Technical Chamber (CSTC) for Safety and Health in construction sector

Following a relevant meeting between the Director of DLI and the President of CSTC on 3.7.2020, in which safety and health issues in the construction sector were discussed, it was agreed to establish a joint Technical Committee to promote actions to improve safety and health levels in the construction sector. An Action Plan was prepared by this Technical Committee, which will be implemented in cooperation with the DLI and the CSTC.

1.8.6. Informative Seminars in collaboration with other Bodies

Within 2020, two webinars were held in collaboration with the Cyprus Scientific and Technical Chamber and the Cyprus Association of Civil Engineers to inform engineers on safety and health issues in construction sector and the management of the COVID-19 pandemic in construction projects.

1.9. Asbestos works

In 2020, after appraisal of applications, 7 companies were approved to carry out works concerning removal of asbestos insulation or coating. Also, in 2020, a total of 81 specific Work Plans were approved by DLI prior to commencement of asbestos work.

1.10. Building Permits, Planning Permits and Certificates of Approval

During 2020, 649 applications concerning building permits, planning permits and certificates of Approval for premises intended for use as workplaces and/or residential units were examined and terms concerning safety and health at work issues were imposed. 50 of these applications include premises that are affected by units that could cause a major scale accident (SEVESO).

1.11. Safety Officers

During 2020, 18 new Safety Officers were approved. The Safety Officer deals with the subjects of safety and health in the installations of his/her employer on a full-time basis. The total number of approved Safety Officers at the end of 2020 was 177. At the same time, within the year continued the evaluation of the work carried out by Safety Officers through examination of the Annual Reports prepared for their activities and submitted to DLI and letters of compliance were sent accordingly.

1.12. Occupational Safety and Health Training Centre

In 2020, due to the situation created by the COVID-19 pandemic, most of the planned TEE enlightenment events were canceled.

However, in the context of its continuous effort to maintain the undiminished interest in Health and Safety issues, as well as the need that arose to inform those involved in the management of pandemic in the workplaces, online events (seminars, lectures) were held, which were organized either entirely by the Department or in collaboration with other interested parties.

In total, during 2020 Inspectors of the DLI gave lectures lasting 37 hours on the DLI's competencies, in 23 events, which were attended approximately by 1.518 persons.

Also, during the year, the Department printed and distributed Office Calendar for the two years 2021 – 2022. The Calendar was designed with drawings and cartoons which were submitted in previous years in the context of the respective competitions.

1.13. Competitions

The DLI, with the co-operation of the Ministry of Education, Culture, Sports and Youth, announced for the eighteenth consecutive year, the Poster Competition 2020 and for the eleventh year the Competition of Good Practice Examples in Schools 2019-2020. Both of them were canceled due to the pandemic.

Furthermore, DLI announced the Good Practice Competition for companies in the field of safety and health at work, which was also canceled due to the pandemic.

1.14. Publications of DLI

During the year 2020, the DLI in collaboration with the Press and Information Office, proceeded to the preparation of guides and brochures for the management of the pandemic. In particular, it prepared guides and brochures for employers and employees, with a view to taking precautionary and protective measures and managing the pandemic in general in companies and in particular in retail businesses, on construction sites, on buses and other means of public transport, as well as on inspectable machinery.

More specifically, in 2020 the following guides for the management of the coronavirus pandemic were published:

1. Safety and Health on Construction Sites - Coronavirus Pandemic Management Guide.
2. Simple Instructions for the Protection of Employees against Coronavirus COVID-19 at the Construction Site (instructions are available in 6 languages - Greek, English, Turkish, Arabic, Bulgarian and Romanian).
3. Questionnaire for the Control of Protection Measures against Coronavirus COVID-19 at the Construction Site - Part A (control of actions / measures before the start of operation of the construction site).
4. Questionnaire for the Control of Protection Measures against Coronavirus COVID-19 at the Construction Site - Part B (daily control of actions / measures at the construction site).

It is mentioned that the above guides and brochures, as well as all the informative leaflets the Department prepares each year, either in printed or electronic form, are posted on the website of the DLI and available to anyone interested. On the website of the Department there is also a lot of information regarding the legislation for which the Department has the competence as well as different reports and statistical data.

1.15. Cooperation of DLI with European Agency for Safety and Health at Work (EU-OSHA)

1.15.1. Healthy Workplaces European Campaign

DLI as the National Focal Point of EU-OSHA, implements at national level, the European Campaign organized by EU-OSHA, with the theme “Healthy Workplaces – Lighten the Load”.

The launching of the European Campaign was attained through a webinar which was implemented on Monday, the 19th of October 2020. The Webinar was organized by DLI and financed by EU-OSHA.

During the webinar the participants had the chance to learn about the scope of the new European

Campaign, and attain presentations on Musculoskeletal Disorders, with special reference in innovative approaches for their elimination. The campaign is expected to be completed in October 2022.

1.15.2. Online Interactive Risk Assessment (OiRA)

DLI and EU-OSHA, in an attempt to facilitate the compliance of the employers with Safety and Health at Work Legislation, and at the same time to enhance the mutual effort to improve the safety and health at workplaces, have developed and offer for free the online interactive risk assessment tools (OiRA). With the use of OiRA, every employer might be able to ensure the safety, health and wellbeing of his/her employees.

In 2020, DLI and EU-OSHA, implemented in Cyprus under the finance of EU-OSHA, a national program for the promotion of OiRA tools. During this program, there were informative events, public announcements, tv spots, interviews at tv and radio channels, visiting of workplaces, preparation of promotional material, publications, etc.

Furthermore, a Hybrid Press Conference was organized with the theme “Online Risk Assessment Tools for Workplaces”. The conference which was live streamed through DLI’s Facebook page, was attended by the Permanent Secretary of the Ministry of Labour, Welfare and Social Insurance and the Executive Director of EU-OSHA.

Moreover, in 2020, 6 of the existing OiRA tools for Cyprus were reviewed under the finance of EU-OSHA, so as to comply with the amendments of legislation and in general with the new fundamentals concerning safety and health at work.

1.16. Control of Major Accident Hazards Special Unit

During 2020, the Control of Major Accident Hazards Special Unit conducted 39 inspections of the establishments covered by the legislation and cooperated with the Civil Defense for External Emergency Plans and with the Department of Town Planning and Housing on issues of site planning of new establishments and on building developments in proximity to existing establishments.

During 2020, the Unit received 1 new Notification of establishment, 1 Major Accident Prevention Policy Document and 2 Safety Cases. The Unit evaluated 1 Notification, 1 Major Accident Prevention Policy Document and 1 Safety Case.

1.17. Control of Offshore Oil and Gas Operations Hazards Unit

In 2020, no offshore drilling operation was carried out. However, within 2020, 5 drilling notifications and a Major Hazard Report were submitted to DLI for evaluation.

In addition, in 2020 the Unit had meetings with companies operating in offshore hydrocarbon exploration activities in the Cyprus Exclusive Economic Zone (EEZ). The Unit also reviewed and submitted views as a member of the Environmental Impact Assessment Licensing Committee and the Licensing Committee under the Barcelona Convention (Offshore Protocol) for the licensing of 6 offshore works.

In 2020, the Unit participated and presented its work at the "3 plus 1" meeting with the participation of Greece, Cyprus, Israel and the USA, as well as at the offshore conference organized by the Hellenic Hydrocarbon Company.

1.18. Safety of Petroleum Installations

During 2020, Inspectors inspected 985 small and large petroleum storage facilities (storing liquid petroleum products and LPG) for control and for issuing a Certificate, a prerequisite for acquiring a Petroleum Storage Permit. Of the above inspections, 119 were conducted at liquid petroleum storage facilities, 143 at liquid petroleum and LPG facilities and the rest (723) were conducted at LPG facilities.

1.19. Unit for the Control of Working Hours and Rest Periods for Drivers of Certain Vehicles

The Unit for the Control of Working Hours and Rest Periods for Drivers of Certain Vehicles carries out control checks at the premises, as well as at the roadside, with the cooperation of the Cyprus Police and the Road Transport Department.

On the basis of the European obligations of Cyprus, the minimum number of working days' checks to be carried out per year and the minimum percentage of the total number of controls on the road and in the premises of enterprises are set. DLI has undertaken the responsibility of fulfilling 50% of the above specified number of checks, while the Cyprus Police 35% and the Department of Road Transport 15%. During 2020, DLI checked a total of 58.012 working days, of which 57.163 days at the premises of the enterprises and 849 days on the roadside. The following table shows in detail the audits carried out in 2020 and the target coverage rates, per case.

Table 4: Drivers' working days examined

	Minimum requirement as per E.U.	Number of examinations carried out in 2020	Percentage coverage of the E.U. requirements (%)
Total number of examinations of working days	70.497 (3% of working days)	58.012	82,3
Examination of working days at the road side	21.149 (30% of 70.497)	849	4,0
Examination of working days at the premises of the enterprises	35.249 (50% of 70.497)	57.163	162,2

The above number of examinations of drivers' working days that have been carried out at the road side, includes the examinations that have been carried out by the DLI during campaigns organized by the Cyprus Police, as member of ROADPOL (former TISPOL - Traffic Information System for the Police) and the Department of Road Transport. The said campaigns took place in February and July of 2020.

1.20. European and International Representation and Relevant Obligations in Safety and Health Issues

The DLI actively participates in the work carried out by (a) the EU Advisory Committee on Safety and Health at Work (ACSHW), (b) the EU Senior Labour Inspectors Committee (SLIC) and (c) the European Agency on Safety and Health at Work (EU-OSHA), as well as in sub-committees or working groups dealing with specific issues. Within the framework of Cyprus obligations on health and safety at work issues, the DLI submitted to the ACSHW, SLIC and EU-OSHA annual reports, completed questionnaires and contributions with information. The Department also prepares reports on the implementation of International Labour Organisations (ILO) Conventions in Cyprus related to Safety and Health at Work.

1.21. Consultation with Social Partners at Pancyprrian and District level

1.21.1. Pancyprrian Safety and Health Council

The Council was established in 1965 and since 1996 is a statutory body under the Safety and Health at Work Laws. Representatives from Public Service Departments, from Employers' and Trade Unions' Organizations as well as from other stakeholders with particular interest in safety and health at work participate to this Council. The purpose of the Council is to submit to the Minister of Labour, Welfare and Social Insurance recommendations for measures to be taken as well as the best and efficient working methods that should be followed to ensure the occupational safety and health of workers and to advise her on issues related to prevention of accidents and the drafting or revision of the relative Legislation.

Due to the pandemic, the Council meeting did not take place during the first half of the year, while with

the physical presence of the members, a meeting took place on 4.8.2020. It is clarified that before each meeting, the DLI sends to the members of the Council notes for their information and preparation on the issues to be discussed.

1.21.2. District Advisory Committees

In these Committees representatives of the social partners at local level participate and discuss issues concerning the implementation of legislation on safety and health at work.

For the first half of the year these Committees, met in February with the physical presence of the participants. For the second half, they did not meet due to the pandemic. However, various informative Notes on health and safety issues were prepared by the DLI and sent to the members.

1.22. Announcements on Safety and Health at Work

During 2020, 51 announcements on Safety and Health at Work were issued, which were sent to Media and posted on the Department's website. These announcements were related to convictions from Courts, the protection of workers against thermal load, targeted inspection campaigns, the publication of information leaflets, the publication of the Inspection Program and the organization of Webinars.

1.23. Chemical Substances

1.23.1. National Helpdesks for REACH and CLP and Awareness Campaigns

For the effective implementation of REACH Regulation (No. 1907/2006) and CLP Regulation (No. 1272/2008), the two appointed National Helpdesks provided constant and support to stakeholders and all other interested parties. During 2020, the National Helpdesks provided guidance on issues related to the obligation to register chemical substances, the structure and content of the Safety Data Sheets, the authorisation obligation, the specific restrictions which apply to certain chemical substances and the correct classification, labelling and packaging of substances and mixtures. In total, the National Helpdesks responded to 178 questions related to REACH and 711 questions related to CLP and 78 questions related to other chemicals legislations. The high number of CLP questions received was due to the provisions of Article 45 of CLP Regulation and the obligation to submit information to the National Chemicals Registry until the deadline of 31.12.2020.

In 2020, the Chemicals Section revised a leaflet related to REACH provisions (REACH Restrictions in toys).

The increased use of biocidal products (antimicrobial and antiseptic mixtures) due to the COVID-19 pandemic was the reason for organising an online Seminar for companies entitled “Legal obligations of biocidal chemicals due to COVID”. The issues presented during the seminar were related to the

provisions of CLP (labelling and obligation to submit information to the National Chemicals Registry), REACH (Safety Data Sheets) and Biocide Product Regulations (Authorisation).

In addition, during 2020, 41 announcements were issued to keep stakeholders and the public informed on specific provisions of the chemicals legislation or on issues related to non-compliant products placed on the European market.

1.23.2. Central Database for the submission of information for the Poison Centers

During 2020, some new and important developments took place at European level, in relation to the provisions of Article 45 of CLP Regulation concerning the obligation to submit information to the National Appointed Bodies and the Poison Centers. A Central European Database containing all this information has been developed and will be maintained by the European Chemicals Agency (ECHA). The DLI, as the National Appointed Body responsible for collecting this information, has actively participated to the European consultations in order to proceed to all necessary amendments to the national procedures. Until the final deadline of 31.12.2020, more than 5.000 hazardous mixtures were notified by Cypriot or European companies to the National Chemicals Registry.

From 1.1.2021, companies placing hazardous mixtures on the EU market are obliged to submit the required information for their mixtures only through the ECHA's Poison Centre Submission Portal (PCN Portal). The national procedure will no longer be used. The PCN database will contain information for use by the Appointed Bodies and the Poison Centres in case of emergency health response requirements.

1.23.3. Inspections, Chemical Analysis of Samples and Prosecutions

In 2020, a total of 249 targeted inspections were carried out at undertakings where various chemical substances and/or mixtures were produced, stored or imported, such as at retail and wholesale stores, suppliers of toys, textiles, jewellery and stationery shops, industries producing and storing chemical products, suppliers / distributors of other chemicals of consumer or professional use.

Targeted campaigns included sampling and control of consumer and industrial products of the Cyprus market. The samples were analysed to identify if they contain restricted chemical substances such as superglues or other professional glues and stationery articles (markers) for their Benzene, Toluene and Chloroform content, toys and child care articles for certain Phthalates which are toxic to reproduction, thermal paper for Bisphenol A content and leather articles for their Chromium VI content. In addition, the classification, labelling and packaging of bleaching / cleansing products were checked, in relation to their pH value / corrosivity. Moreover, samples of paints were analysed for their Volatile Organic Content (VOC) content. All non-compliant products were withdrawn from the Cyprus market and the importers / producers were accordingly informed. In addition, all non-compliant products were notified to the RAPEX System and communicated to the local press and the public media for raising public

awareness.

Additional information on the inspections of the Chemicals Sector is presented in **Figure 3.7, Table 3.8** and **Table 3.9** of the **Appendix**.

The DLI participated in two European campaigns of the FORUM Committee. During the REF7 campaign, special provisions related to REACH registration were checked for 31 chemical substances imported by 15 companies. In a 2nd pilot campaign and in collaboration with Customs, 36 articles were checked for their content and for the presence of substances for which specific restrictions apply. During this campaign, the Registration numbers, the labelling and the Safety Data Sheets were checked for 18 chemical mixtures placed on the Cyprus market.

In addition, DLI participated to the new REF-8 campaign for checking the compliance of chemical products sold through internet. During this campaign 20 products were controlled for the obligation of having their hazardous information provided in the online offer (advertisement).

During 2020, three companies were prosecuted and administrative fines were imposed for breaching the national chemicals legislation for placing non-compliant chemical products on the Cyprus market.

1.23.4. Collaboration with the Customs Department

In the frame of the close collaboration with the Customs Department 32 cases of chemical imports were further investigated in 2020, for their compliance with the Chemicals Legislation. The collaboration with the Customs was considerably improved with the physical presence of an Inspector from the Limassol District Office for some hours per week, at the Limassol Port.

1.23.5. LIFE + Programme (LIFE CHEREE)

In 2020, the activities of the European Project LIFE+ (LIFE CHEREE: Chemicals Regulations Enforcement & Inspections Building Authority Capacity for REACH/CLP and SEVESO III Compliance) which started in 2016 continued as planned. The coordinating beneficiary is the Technical University of Crete (Greece) and the associated beneficiaries are the Competent Authorities for REACH, CLP and SEVESO III Legislation in Cyprus and Greece, which are the DLI of Cyprus and the General Chemical State Laboratory of Greece. The project aims at the development and implementation of common good-practices, guidance, training and supporting inspections for the effective enforcement of REACH/CLP Regulations and SEVESO III Directive in Greece and Cyprus. The project time frame is for 3,5 years. Due to the COVID-19 pandemic the project deadline was extended for one more year and will end on March 2021. The project actions/ goals were carried out as planned.

1.23.6. Pancyprian Chemicals Council

The Pancyprian Chemicals Council has been established through a special provision of the National Chemicals Legislation of 2010. The Council consists of Public Authorities and NGOs (Employers and Trade Union Organizations, Professional and Environmental Organizations and Consumer Associations) and its role is to advise the Minister of Labour, Welfare and Social Insurance on various issues related to chemicals management and control. The Council meets once per year and during the meetings, the latest developments on the chemicals management and legislation are presented and different issues are further discussed.

1.23.7. Participation to Committees – Working Groups in Cyprus

The DLI is in close cooperation with other Ministries / Departments and provides help and advice on specific issues related to chemicals. In this framework, officers of the DLI actively participated to the Tender Evaluation Committees (a) at the Ministry of Finance and (b) at the Ministry of Health, where they were involved in the evaluation of tenders related to chemical products. Also, they participated to the Council for the registration and authorisation of Plant Protective Products and Biocides, to the Advisory Committee for the evaluation and Authorisation of EU Ecological products and to the Cyprus National Committee on Environment and Child's Health.

1.23.8. Participation to European and International Meetings

During 2020, DLI officers actively participated to the majority of the European Chemicals Agency (ECHA) Committee meetings, as well as to the meetings of the Competent Authorities for Regulations REACH and CLP. Through these activities the DLI is informed on all new developments concerning chemicals management and control and subsequently transfers this information to all importers, producers and users of chemicals in Cyprus helping them to fulfil their obligations. During these meetings there was close collaboration with other Member States in order to achieve a better and more harmonized implementation of the European Chemicals Legislation. Also, the DLI followed all the international efforts undertaken by the United Nations to control and manage chemicals. Additionally, during 2020, the annual report of the European Regulation 649/2012, on the import / export of certain hazardous chemicals, has been submitted, as well as the annual survey on the activities of the national CLP and REACH Helpdesks was submitted online to ECHA.

1.24. Legislation Update for Issues of Safety and Health at Work Sector

In 2020, the following legislation was approved by the House of Representatives and published in the Official Gazette of the Republic:

1. The Safety and Health at Work (Amendment) Law of 2020, (Law 215(I)/2020).

2. The Safety and Health at Work (Medical Examinations of Workers Climbers at Height) Order of 2020, (R.A.A 30/2020).
3. The Safety and Health at Work (Prescribed Fees) Order of 2020 (R.A.A 548/2020).
4. The Safety and Health at Work (Prescribed Fees) Order of 2020 (Registration of Premises, Installations, Enterprises and Work Places) (R.A.A. 62/2020).
5. The Safety and Health at Work (Carcinogenic and Mutagenic Agents) (Amendment) Regulations of 2020, (R.A.A 282/2020).
6. The Safety and Health at Work (Code of Practice for the Protection of Workers from Heat Stress) (Amendment) Order of 2020.
7. The Control of Factory Atmosphere and Dangerous Substances in Factories (Amendment) Regulations of 2020 (R.A.A. 285/2020).
8. The Chemical Substances Law of 2020 (Law 119(I)/2020).
9. The Chemical Substances (Application of the Principles of Good Laboratory Practice) Regulations of 2020 (R.A.A. 380/2020).
10. The Chemical Substances (Breach of the Provisions of CLP Regulation) Regulations of 2020 (R.A.A. 381/2020).
11. The Chemical Substances (Breach of the Provisions of PIC Regulation) Regulations of 2020 (R.A.A. 382/2020).
12. The Chemical Substances (Breach of the Provisions of REACH Regulation) Regulations of 2020 R.A.A. 383/2020).
13. The Chemical Substances (Breach of the Provisions of articles 3-9 of Regulation 2017/852) Regulations of 2020 (R.A.A. 384/2020).
14. The Stockholm Convention on Persistent Organic Pollutants Ratifying (Amendment) Law of 2020 (Law 9(III)/2020).

Also, the Rotterdam Convention on the Prior Informed Consent for Certain Hazardous Chemicals and Pesticides in International Trade Ratifying (Amendment) Law of 202X is under publication.

1.25. DLI Actions to Respond to COVID-19 Pandemic

- ❖ DLI, in collaboration with the Ministry of Health and other bodies, developed Guides / Informative Brochures and Health Protocols for the Management of COVID-19 Pandemic and distributed this material to the general public, employers and trade unions as well as other involved stakeholders.
- ❖ Development and continuous update of a specific section on DLI's website on COVID-19.
- ❖ In May 2020, DLI organized an online training of 160 officers from DLI and other governmental departments, (Deputy Ministry of Tourism, Public Health Service, Department of Labour Relations, Department of Labour, Consumer Protection Service, Hunting & Fauna Service, Cyprus Police, Municipal Traffic Wardens and British Base Police).
- ❖ Organization of web training of Inspectors, in June 2020 on the measures against COVID-19.
- ❖ Scheduling and Coordination of Inspections at Construction Sites and Retail Companies, Large Shopping Malls, Nursing Homes and Other Workplaces. In total, until 31.12.2020, from 4.5.2020, 28.479 inspections were carried out and 198 sanctions were imposed (Prohibition Notices and extrajudicial fines). Out of the 28.479 inspections, 24.741 were carried out in the Retail Trade, mainly by the Officers of other Departments and Services that support DLI. However, 3.788 inspections were carried out exclusively by DLI Inspectors. 3.352, were carried out at Construction sites, 73 in Nursing Homes for the Elderly and 313 inspections at other workplaces (e.g., Manufacturing).
- ❖ Continuous presence at mass media and social media and publication of announcements.
- ❖ Market Surveillance for Personal Protective Equipment that meets safety and health standards and in particular the availability of masks.
- ❖ Management of frequently asked questions from public.
- ❖ Development in cooperation with EU-OSHA, of a new online interactive risk assessment tool for COVID-19. OiRA COVID-19, focuses exclusively on the management of hazards at workplaces due to COVID-19, suggesting preventive and protective measures for the safety, health and well-being of every employee. The tool is free and user friendly, it can be utilized by every business, no matter of size or economic activity and it can be an integrated part of the review of the existing risk assessment that every employer must have in place.
- ❖ In cooperation with the Press and Information Office, DLI implemented during August and September 2020, targeted campaign for the promotion of OiRA COVID-19. The promotion was

done through the projection of a specific video by tv channels and the social media and the broadcasting of a radio spot from all the radio stations.

- ❖ Continuous enlightenment campaign by placing of a specific information message on buses throughout Cyprus as well as the publication and dissemination by DLI and other governmental services, guiding leaflets.
- ❖ Informing the Social Partners and the Members of the Pancyprian Safety and Health Council on the actions of DLI

2. RADIATION PROTECTION, ENVIRONMENTAL ISSUES AND EQUIPMENT SECTOR

2.1. The Machinery, Pressure Vessels Inspection and Lifts Unit

The Machinery and Pressure Vessels Inspection and Lifts Unit operates with personnel at the Headquarters as well as at the District Offices of the DLI and provides specialised inspection services to the owners of Inspectable Machinery (IM), which include inspection, testing and examination, according to the type of IM.

Table 3.10 of the **Appendix** shows an analysis of the 1.002 machinery inspections carried out by the Inspectors, per District and category of IM for 2020. **Table 3.11** of the **Appendix** shows the maximum legal interval between two consecutive inspections and the corresponding number of inspections for 2020 for each category of IM in comparison with those for 2019.

Within the framework of the enforcement of the Safety and Health at Work (Operation, Maintenance and Audit of Lifts) Regulations of 2012 (R.A.A. 533/2012), the DLI carried out a total of 21 inspections. Specifically, in 2020, 4 Lifts Maintenance Persons were inspected at their premises as well as lifts for which they provide maintenance. Moreover, the DLI assessed 14 requests from lift owners, who requested an Exemption from the application of certain technical provisions of the Regulations on their lifts and initiated 3 complaint investigations. Also, one Improvement Notice was issued for a dangerous lift. The DLI maintains up to date the Register of the Authorised Lift Auditors and the Register of the Lift Maintenance Persons. Both Registers are available at the DLI website. In 2020, 1 new Lift Maintenance Person and 6 qualified persons were approved. Furthermore, within 2020 the draft amendment of the above Regulations was sent to the European Commission, through the TRIS process, for any technical comments.

During 2020, the Legal Services of the Republic completed the legal vetting of the draft of the Health and Safety at Work (Operation, Maintenance and Control of Lifting Machines) Regulations and the draft Regulations were forwarded to the House of Representatives for approval. Respectively, the draft of the Health and Safety at Work (Fluid Systems) Regulations was made available for public consultation.

2.2. Safety and Health Requirements for Products bearing a CE Marking Unit

The CE Marking Products Unit is responsible for the enforcement of the national legislation that transposes the New Approach Directives on the seven following product categories:

1) Machinery, 2) Lifts, 3) Pressure Equipment, 4) Simple Pressure Vessels, 5) Personal Protective Equipment (PPE), 6) Equipment and Protective Systems for Use in Explosive Atmospheres and 7) Noise Emission in the Environment by Equipment for Outdoors Use.

The enforcement of the CE legislation is achieved through market surveillance on a sampling basis, as well as after information, which is received regarding non-conforming products. Such information is usually received from the Customs Authorities, other local Surveillance Authorities or from consumers, employees or from other persons. Periodically, random inspections at retail outlets and undertakings are carried out based on a special Market Surveillance Programme prepared for the Cyprus market. Within the Framework of the COVID-19 Pandemic, the Unit carried out inspections of PPE at the points of entry into the Republic and at retail premises where PPE were made available.

During 2020, 77 market surveillance activities were carried out that included 13 specialized inspections to investigate requests for derogation from the essential requirement 2.2. of the European Directive for Lifts.

Within the framework for the enforcement of European Regulation (EC) No 765/2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, the Unit prepared its Market Surveillance Programme for the year 2020, which was notified to the European Commission. This Programme included activities on lifts and machinery, personal protective equipment, pressure equipment and air vessels.

Furthermore, in cooperation with the Customs Authorities, during the importation stage, non-compliant equipment was identified, and measures were taken to prohibit the clearing through the customs of such non-compliant products which included protective face masks, electric bicycles and tricycles, wood shredders, etc. Moreover, measures were taken for compliance or prohibition of placement on the local market of protective face masks and pressure equipment, following information received from the Consumers Protection Association. Also, an administrative fine was imposed on a lift installer who placed a non-compliant lift on the market and in another case a Compliance Notice was issued for a non-compliant pressure equipment.

Within the COVID-19 Pandemic context, the Unit participated in a program funded entirely by the European Commission, which included sampling and laboratory testing at an accredited laboratory of protective face masks and protective gloves, as well as exchanging experiences for market surveillance actions between Member States. The program continues in 2021. The Unit also completed its participation in another corresponding program to check the compliance of electric bicycles and electric scooters and presented, due to the pandemic, the results in a European video conference and press conference.

Also, an Inspector, who chairs the Lifts Administrative Cooperation Group (AdCo) at EU level, provided an online contribution to the development of the new legal framework for market surveillance and joint market surveillance programs.

Additionally, the Unit informed the general public with a total of 49 Announcements, which were uploaded on the DLI website, the social media and the electronic press, for non-compliant products intended for public use, which were identified on the European market and posted on the Rapid Alert System (RAPEX) for the exchange of information for non-food dangerous products.

2.3. Storage and Installations LPG Unit

During 2020, the Storage and installations LPG Unit continued the monitoring of the enforcement of the legislation carrying out specific inspection.

Within the process of License granting for storage of LPG, 664 inspections were carried out by the DLI Inspectors at undertakings where LPG is stored. Additional 15 inspections related to LPG, but for reasons other than the granting of Licence, were carried out. The Inspectors also examined 27 complaints from the general public concerning LPG installations. In addition, 21 inspections were carried out on catering vehicles that use LPG and 16 inspections were carried out on LPG vehicle conversion workshops and petrol stations with autogas. The number of inspections per District is shown on **Table 3.12** of the **Appendix**.

Inspectors of the Unit also provided technical guidance on the interpretation of LPG legislation to LPG installers and importers of LPG equipment. They also set conditions for new industrial installations that will store large quantities of LPG and for new petrol stations with autogas.

In the context of the modernization of the legal framework for LPG, the public consultation for the amendment of the Codes of Practice for LPG concerning small and large LPG installations has been completed. The comments received were evaluated and their incorporation into the texts of the Codes began. Also, the discussion of the new LPG Regulations began in the competent Parliamentary Committee of the House of Representatives. These Regulations regulate the operation, maintenance and control of LPG installations and storage by assigning technical controls to the private sector and introducing a System of Approval and Control.

2.4. Radiation Protection and Nuclear Safety (RP&NS)

The Radiation Inspection and Control Service (RICS), operating within the DLI as the Radiation Protection Section, was established under the Protection against Ionising Radiation and Nuclear and Radiological Safety and Security legislation.

2.4.1. Revision and Improvement of RP&NS Legislative Framework

In 2020, following the 2018 enactment of the main RP&NS Law and Regulations, the harmonisation process with BSS Directive 2013/59/Euratom and the International Atomic Energy Agency (IAEA)

standards GSR Parts 1 and 3 continued.

In 2020, the following documents were approved and/or published:

1. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Code of Practice on the Radiation Protection of Members of the Public) Notification of 2020 (R.A.A. 20/2020).
2. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Code of Practice on the Designation of Controlled and Supervised Areas) Notification of 2020 (R.A.A. 21/2020).
3. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Code of Practice on the role, the responsibilities and the practices which require the appointment of a Radiation Protection Officer is required by the undertaking or the employer) Notification of 2020 (R.A.A. 22/2020).
4. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Code of Practice on Setting-Out and Implementing Diagnostic Reference Levels for Radiodiagnostic Examinations) Notification of 2020 (R.A.A. 23/2020).
5. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Code of Practice on the Individual Radiological Monitoring) Notification of 2020 (R.A.A. 24/2020).
6. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (General Conditions for Authorisation through Registration for Veterinary Radiodiagnostic Practices) Notification of 2020 (R.A.A. 51/2020).
7. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Specifications on the registration of practices with radiation generators used for non-medical imaging exposure and operating at less than 200 kV, excluding computed tomography practices) Notification of 2020 (R.A.A. 390/2020).
8. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Code of Practice on the Implementation of a Management System by the Undertaking or the Employer) Notification of 2020 (R.A.A. 427/2020).
9. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Code of Practice on Conducting Risk Assessment) Notification of 2020 (R.A.A. 428/2020).

10. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (Code of Practice on the Application of Local Rules, the Supervision of Classified Areas and the Application of Additional Requirements for Classified Areas) Notification of 2020 (R.A.A. 459/2020).
11. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (General Conditions for Authorisation through Registration for Practices with Sealed Radioactive Sources of Category 5) Notification of 2020 (R.A.A. 584/2020).
12. The Protection against Ionising Radiation and Nuclear and Radiological Safety and Security (General Conditions for Authorisation through Registration for Practices with Unsealed Radioactive Sources with a Maximum Total Yearly Radioactivity of 100 MBq for Laboratory (in vitro) Medical or Non-Medical Application Purposes) Notification of 2020 (R.A.A. 585/2020).

In addition, RICS prepared draft documents for fines and transport which are expected to be published in 2021.

2.4.2. Implementation of a RP&NS Integrated Regulatory System (Authorisation, Inspection and Compliance Control) - Record Keeping

In 2020, RICS personnel performed 157 inspections, including measurements in workplaces, medical centres and other premises where activities with ionising or non-ionising radiation take place. The general outcome from the inspections is that, in general, there is compliance of the enterprises with the legislation on the conditions of the licenses. The main issue found is that a number of radiology centres do not comply with the requirement of performing quality assurance checks at least once per year. In addition, there were 4 meetings of the Technical Licensing Committee resulting in the granting of 40 licenses for practices with ionising radiation. 50 authorisations to enterprises for the import / export / shipment of radioactive sources or radioisotopes were also granted. Additionally, 218 certificates for radioactivity levels in recyclable metals, plastics, batteries, feed, foodstuff and beverages, for the purpose of exportation, were issued. Finally, there were 10 approvals for RP&NS services.

RICS in 2020 continued updating and upgrading the National Registers of Ionising Radiation Sources and Practices, the National Personal Dosimetry Register of Workers exposed to ionising radiation, as well as the Radioactive Waste and Disused Sources Register.

2.4.3. Improvement of the Organisation and Strengthening of the RP&NS System in Cyprus

RICS continued its work on meeting the recommendations of the peer review of the RP&NS system and the competent authority of Cyprus that took place in 2017, following the action plan prepared for the

four-year period 2017-2020.

Two informational documents were published one for the protection of the public during nuclear medicine procedures and one for the protection of pregnant persons.

In 2020, RICS continued updating the 6 thematic areas in the IAEA “Radiation Safety Information System” (RASIMS-2).

Finally, the implementation of the two national projects for 2020-2023 aimed at strengthening the capabilities of the involved services in radiation safety and in the management of radioactive waste and disused radioactive sealed sources begun.

2.4.4. Monitoring of Environmental Radioactivity

The monitoring, sampling and measuring of radioactivity levels in air, soil, water, the marine environment, foodstuff, feed, materials from the hydrocarbon exploitation industry, building materials and miscellaneous goods continued in 2020, in collaboration with the State General Laboratory and the Department for Fisheries and Marine Research.

The telemetric network for the monitoring of environmental radioactivity in the atmosphere of Cyprus, which also functions as the early warning system in the event of a radiological incident has seven fixed local measuring stations covering the entire area under the control of the Republic, a portable gamma-radioisotope spectroscopic measuring station and a fixed total α -radiation, total β -radiation and γ -radioisotopes spectroscopic station for aerosol. The telemetric network is also linked to the European network EURDEP and sends data automatically (on an hourly basis) to the EU Joint Research Centre. The national radioactivity monitoring network, in addition to the telemetric network, includes two automatic air sampling pumps, one in Nicosia and one in Limassol, for measurements of total β -radiation in the atmosphere and an automatic high-volume sampling pump in Nicosia for the monitoring of γ -radioisotope concentrations in the atmosphere.

In 2020, a new contract was awarded for the maintenance of the telemetric network (2021-2025) and a new memorandum of cooperation on radioactivity measurements was signed with the State General Laboratory (2021-2023). Additionally, an agreement was reached with the Department for Fisheries and Marine Research on sea sampling.

In 2020, RICS continued the digital mapping of radon concentration in buildings, schools and workplace environments in Cyprus, which will be completed through a 3-year project by an external contractor.

In June 2020, Cyprus sent the results of the environmental monitoring for 2019 to the European Commission data bank REM (Radioactivity Environmental Monitoring).

2.4.5. National Action Plan ELECTRA for Nuclear / Radiological Incident Preparedness and Response

In 2020, the implementation of actions to upgrade the emergency preparedness framework for dealing with radiological / nuclear incidents continued through the implementation of the ELECTRA National Plan. In 2020, RICS was further equipped one low volume air sampling pump for the purposes of ELECTRA. In September 2020, an online exercise took place within the framework of that plan, with participation from various involved services.

In 2020, RICS participated in IAEA (ConvEx) and EU (ECUREX) Preparedness and Response exercises and related meetings.

2.4.6. Implementation of an Integrated Radioactive Waste Management System in Cyprus

The implementation of actions under the National Programme for the Safe and Responsible Management of Radioactive Waste, approved by the Minister of Labour, Welfare and Social Insurance in 2015, continued in 2020. The National Register of Radioactive Waste and Disused Sources is updated on a continuous basis, whenever there is a change. RICS continued its activities for (a) the repatriation of a number of legacy Disused Sealed Radioactive Sources stored in Cyprus, (b) finding solutions for the final disposal of these sources and any possible new such sources. Within this framework RICS, in cooperation with the IAEA, succeeded in exporting a number of high activity legacy Disused Sealed Radioactive Sources. Additionally, the peer review on radioactive waste management, ARTEMIS, set for October 2020, was postponed until 2021.

2.4.7. Radiation Protection and Nuclear Safety Council

Because of the pandemic the Radiation Protection and Nuclear Safety council did not convene in 2020. The Council was consulted electronically 3 times.

2.4.8. Strengthening International Cooperation on RP&NS (EURATOM, IAEA, International Organisations or other countries) – IAEA Regional Programmes

RICS participated virtually in various Committees of EURATOM and other European bodies (ENSREG, Euratom Art. 31 and Art. 35/36 GoE, ECURIE/EURDEP, HERCA, WENRA) and of the IAEA (IEC, ITDB, TC). It also participated virtually in the IAEA General Conference, where a statement was read, and in various other IAEA meetings and activities, as well as in counter-terrorism meetings and activities. RICS provided requested information and replied to questionnaires to the EU, the IAEA and the UN (UNSCEAR) on RP&NS issues. In February RICS participated in the International Conference on

Nuclear Security, where a national statement was read.

In 2020, RICS participated in various IAEA Technical Cooperation Programmes aiming at strengthening the RP & NS system, as well as at upgrading the relevant infrastructure and capabilities of Cyprus. Within the framework of the above programmes, 50 officers from RICS and other agencies and organisations participated in mainly virtual meetings of the IAEA and were trained on relevant subjects. The economic benefit to Cyprus from the participation of Cypriot officers in the above meetings in 2020 is estimated at around €100,000. Also, in cooperation with the IAEA, RICS organised in 2020 three meetings in Cyprus, two on nuclear security detection architecture and transport security and one on radiological crime scene management. Finally, in 2020, in the framework of the implementation of the bilateral agreement signed in 2008, the cooperation of RICS with the Greek Atomic Energy Commission (EEAE) continued.

2.5. Control of Industrial Air Pollution

2.5.1. Permitting

During 2020, within the framework of the implementation of the provisions of the Atmospheric Pollution Control Laws and the Industrial Emissions Laws that refer to the permitting of industrial installations, the competent Technical Committees (for the Protection of the Atmosphere and the Environment respectively) in which, apart from the Ministry of Labour, Welfare and Social Insurance (MLWSI), five other Ministries, the Cyprus Scientific and Technical Chamber and the Cyprus Federation of Environmental Organizations participate, continued to be active. These Committees, which are chaired by a MLWSI inspector, examined 1 application for Air Emission Permit and 3 applications for Industrial Emissions Permits.

Upon proposal of the Technical Committee for the Protection of the Atmosphere, 1 Air Emission Permit was granted by the Director of the Labour Inspection Department. Based on the recommendations of the Technical Committee for the Protection of the Environment, the Minister of Labour, Welfare and Social Insurance granted 1 Industrial Emissions Permit for a printing installation and 6 more Permits for dry cleaning installations on the basis of general binding rules. Moreover, the Minister of Labour, Welfare and Social Insurance together with the Minister of Agriculture, Rural Development and Environment granted 2 Industrial Emissions Permits to other installations. Furthermore, the Director of the Labour Inspection Department granted 12 Air Emission Permits on the basis of general binding rules. The categories and number of installations for which Air Emission Permits and Industrial Emissions Permits were granted in 2020, are shown in **Table 3.13** of the **Appendix**.

2.5.2. Inspections and Measurements

Regarding the implementation and enforcement of the legislation, particular emphasis was given on checking the compliance of installations with the specified operating conditions and Permit emission

limit values (Air Emission Permits and Industrial Emissions Permits). For this purpose, the inspections and the environmental measurements continued during 2020. During 2020, 44 inspections were carried out at permitted installations in order to check the compliance with the operating conditions, which are specified in the corresponding permits (Air Emission Permits), 30 inspections were carried out at non-licensable installations (e.g. boilers, crushing plants, asphalt plants etc.) in order to check the compliance with the conditions which are specified in the relevant Regulations, 27 inspections were carried out at installations under the Industrial Emissions Law, 15 inspections were carried out at installations under the Medium Combustion Plants Regulations and 3 inspections were carried out for the investigation of complaints addressed by the public related to the operation of neighboring factories.

In addition, 15 questions from Members of the House of Representatives, the public and the Ombudsman were answered.

In 2020, emission measurements were carried out by a private company on behalf of the Department of Labour Inspection at 18 installations. The monitoring of the operation of large-scale industrial installations was also achieved by competent Inspectors through the data validation and control of the air emission measurements obtained from instruments installed by the operators at the stacks of the aforementioned installations. A total of 381 annual reports submitted were checked.

During 2020, 1 new penal case for violation of the provisions of the legislation was registered with the Court. Moreover, 48 public information Announcements were issued regarding the submission of applications for the granting of Air Emission Permits and Industrial Emissions Permits and the publication of new legislation.

2.5.3. European Pollutant Release and Transfer Register (E-PRTR)

According to the European requirements on the Cyprus Republic concerning the establishment of a European Pollutant Release and Transfer Register (E-PRTR Regulation), Cyprus is required to annually submit key environmental data from industrial activities. In 2020, the DLI submitted to the European Commission and the European Environment Agency, the report of 2018 and 2019 with the relevant data for Cyprus. The Cyprus Pollutant Release and Transfer Register consists of a website (<http://www.prtr.dli.mlsi.gov.cy>) and a specialized database, on which environmental data from industrial facilities that fall within the scope of the Regulation E-PRTR Regulation are uploaded. The Register enables the public to have access to environmental information and also contributes to transparency and more effective participation by the public in environmental decision-making. In addition, the objectives of reducing bureaucracy and administrative burden have been met, since the operators of industrial facilities are able to upload on the website one report providing the required environmental data to both the DLI and the Department of Environment simultaneously.

2.5.4. Harmonization with the Acquis Communautaire and New Legislation for Industrial Air Pollution

Within the framework of the implementation of the provisions of the Atmospheric Pollution Control Laws the following legislation was issued:

- (a) The Control of Atmospheric Pollution (Amendment) Law of 2020 (Law 97(I)/2020).
- (b) The Air Pollution Control (General Operating Conditions for New Medium Combustion Plants) Order of 2020 (R.A.A. 143/2020).
- (c) The Air Pollution Control (General Operating Conditions for the Production and Packaging of Pharmaceutical Products Installations) Order of 2020 (R.A.A. 484/2020).
- (d) The Air Pollution Control (General Operating Conditions for Wood Treatment Installations) Order of 2020 (R.A.A. 485/2020).
- (e) The Air Pollution Control (General Operating Conditions for Wood Painting and Treatment Installations) Order of 2020 (R.A.A. 486/2020).
- (f) The Air Pollution Control (General Operating Conditions for the Production of Coating Mixture, Varnishes, Inks and Adhesives Installations) Order of 2020 (R.A.A. 487/2020).
- (g) The Air Pollution Control (Prescribed Fees) Order of 2020 (R.A.A. 546/2020).

Within the framework of the implementation of the provisions of the Industrial Emissions Laws the following Orders were issued:

- (a) The Industrial Emissions (Emission Permit Application Form – Use of Organic Solvents) Order of 2020 (R.A.A.144/2020).
- (b) The Industrial Emissions (Prescribed Fees) Order of 2020 (R.A.A. 588/2020).

Furthermore, the draft of Regulations titled «The Control of Atmospheric Pollution (Non-Licensable Installations) (Amendment) Regulations of 2020» and the draft of Order titled «The Air Pollution Control (Amendment of Annex II) Order of 2020» were submitted to the Law Office for legal vetting.

Moreover, the draft legislation titled «The Industrial Emissions (Integrated Pollution Prevention and Control) (Amendment) Law of 202x», «The Control of Atmospheric Pollution (Amendment) Law of 202x» and «The Control of Atmospheric Pollution (Prevention and Reduction of Atmospheric Pollution by Asbestos) Notification of 202x» were exposed to public consultation.

2.6. Air Quality

2.6.1. Ambient Air Quality Monitoring

During 2020, DLI continued the measurements for monitoring of ambient air quality in various points of Cyprus, as shown in the map of **Picture 3.1** of the **Appendix**. The aforementioned measurements were carried out using nine Stations, fully equipped with automatic real time instruments measuring the following pollutants: Nitric Oxide, Nitrogen Dioxide and Nitrogen Oxides (NO, NO₂ and NO_x), Ozone (O₃), Sulphur Dioxide (SO₂), Carbon Monoxide (CO), Suspended Particles (PM-Particulate Matter) (dust) and Benzene (C₆H₆). In addition, the most important meteorological parameters are monitored such as Wind Direction, Wind Speed, Ambient Temperature, Relative Humidity, Atmospheric Pressure and Solar Radiation. A photo of a representative station is shown in **Picture 3.2** of the **Appendix**.

The results of the measurements as well as other relevant information are presented on-line, through the specialized website www.airquality.gov.cy. In addition, the information of the public for the air quality is carried out with indoor panels installed in 3 Municipalities' Offices, as well as through 4 island-wide TV stations during the central news bulletin. Also, the air quality bulletin is published by the daily newspaper Cyprus Mail in English language.

It is noted that, since 2017 the Department of Labour Inspection operates a mobile phone application with the aim to directly inform the public, especially the sensitive population groups, the employees and other interested people. Through this application, the visitor has access to the information for the air quality, in real time, based on the different colors of pollution levels on Cyprus map, as well as based on the concentrations of pollutants per station.

2.6.2. Dust Events

During 2020, dust events were observed due to dust transport from the dry regions (deserts) of North Africa and Middle East areas. In 2020, 14 announcements were issued for high concentrations of Particulate Matter (PM) in the atmosphere of Cyprus to warn the public and especially the vulnerable groups (children, the elderly and patients) and the workers working in open spaces.

2.6.3. Suspended Particulate Matter Measurements

The measurements of concentrations of the Suspended Particles (PM) using special filters with dedicated samplers in all towns of Cyprus continued during 2020. From these samplings, firstly the concentrations of PM₁₀ and PM_{2.5} are calculated and then chemical analyses of these filters are carried out in specialised analytical laboratories for the determination of the concentrations of heavy metals (As, Cd, Ni, Hg, Pb), other metals (Al, Fe, Cu, Zn, Mn, Ti, Cr, V), ions (Cl⁻, Br⁻, SO₄²⁻, PO₄³⁻, NO₃⁻, Na⁺, K⁺, NH₄⁺, Mg²⁺, Ca²⁺) and Polycyclic Aromatic Hydrocarbons (PAH's) included in the PM.

2.6.4. Evaluation of the Results of Measurements

This report refers to the results of the measurements of 2019, because not only the measurements' validation procedure (hourly, daily) but also the chemical analyses of the filters for PM are difficult and time-consuming procedures with the result the processing of measurements of 2019 has been completed in 2020.

The results of the measurements of the major atmospheric pollutants at the areas which measurements are carried out show that the concentrations of most pollutants, like Sulphur Dioxide (SO₂), Carbon Monoxide (CO), Nitrogen Monoxide, Nitrogen Dioxide and Nitrogen Oxides (NO, NO₂ and NO_x), Benzene (C₆H₆), heavy metals and benzo(a)pyrene are below the corresponding limit values, specified in the Cyprus and European Legislation. Exception exists in cases of Ozone (O₃) and Particulate Matter (PM₁₀) where exceedances of the limit values are observed.

The results of the measurements are presented in **Figures 3.8 to 3.12** of the **Appendix**. Specifically, in **Figure 3.8**, the annual mean values of various pollutants at the Nicosia Traffic Station are presented, from 2000 to 2019, where a constant decline of the concentration of the pollutants NO₂, CO and SO₂ is observed. This decline is mainly due to the improvement of fuel quality, the introduction of modern technology vehicles equipped with catalyst and the routine technical inspection of all vehicles.

Figure 3.9 of the **Appendix**, shows the annual mean concentrations of O₃ at three representative areas (background, residential area and increased traffic area). The relevant exceedances of the target value are mostly due to the climatic conditions prevalent in Cyprus, where high ambient temperatures and high solar radiation contribute to the production of O₃, as well as due to the transboundary pollution of the O₃ and O₃ precursor's transportation from the East Mediterranean and other neighboring countries.

Figure 3.10 of the **Appendix**, shows the annual average values of Particulate Matter (PM₁₀) at the Traffic Stations of Nicosia (NICTRA), Limassol (LIMTRA), Larnaca (LARTRA) and Pafos (PAFTRA) and at the Rural Background Station of Ayia Marina Xyliatou (EMEP) for the years 2010 to 2019. The annual average values in some towns continue to be higher than the annual limit value (40µg/m³). Despite the exceedances, during the last years there is a small reduction in the PM₁₀ concentration. The exceedances of the limit value of PM₁₀ observed are due to anthropogenic and natural sources. The anthropogenic sources are the emissions from combustion (vehicles, industry and heating) and natural sources are dust transportation from the deserts of North Africa, Middle East and the sea salt.

Figure 3.11 of the **Appendix**, shows the number of exceedances of the daily limit value of PM₁₀ (50 µg/m³) at the traffic stations. In 2019, at the Nicosia and Limassol traffic stations the number of exceedances exceeds the maximum allowed number of 35 per year. It is noted that, after the subtraction of the number of the exceedances due to natural sources (sea salt, dust from Sahara and Asia) the final

number of exceedances is below the 35 in all traffic stations.

Figure 3.12 of the **Appendix**, shows the annual average values of PM_{2.5} at the Residential Stations and EMEP Background Station at Ayia Marina Xyliatou. The measurements in the Residential Stations for the last three years (2017-2019), were used to calculate the Average Exposure Index (AEI). The AEI calculated is 15,13 µg/m³. Based on the relevant legislation, the national exposure reduction target for PM_{2.5} for the protection of human health, for 2020, is defined to be 18 µg/m³.

In order to handle the problem of the exceedances, especially for the PM₁₀, and to improve air quality concerning the other pollutants, the DLI prepared an Action Plan for the Improvement of Air Quality, which was approved by the Council of Ministers in 2008 and was submitted to the European Commission. The progress of implementing the measures of the Action Plan is monitored by the DLI, as the Competent Authority, through a Technical Committee, which is prescribed in the relevant legislation and where representatives from five Ministries, the Cyprus Scientific and Technical Chamber and the Federation of Environmental Organisations of Cyprus. In 2019, a meeting of the Technical Committee was carried out in 13.6.2019, during which the progress of the implementation of measures included in the National Action Plan was presented and the table of measures was revised. At the same time, the study for the identification of sources of PM₁₀ with chemical analyses was continued, to determine the percentage of natural sources contribution so that realistic measures can be applied for the reduction of anthropogenic sources.

2.6.5. National Air Quality Reference Laboratory (NRL)

The NRL was accredited by the Cyprus Organization for the Promotion of Quality (CYS-CYSAB) according to the CYS EN ISO/IEC 17025 standard from 6.6.2013 for four years. The inspection of conformity to the standard is done annually. On 19 and 20.6.2017 the reassessment of the entire Quality Assurance System by the CYS-CYSAB was successfully carried out and the Accreditation of the Laboratory and the Air Quality Monitoring Network was renewed for the next four years with annual surveys. In addition, in 2 and 3.12.2019 the NRL and the Air Quality Monitoring Network were inspected successfully with the revised standard CYS EN ISO/IEC 17025:2017. The NRL participates in mandatory Laboratory Intercomparisons at the Joint Research Center (Ispra - Italy) of the European Union every three years, as obliged by the relevant EU Directive for the Air Quality. These intercomparisons concern all methods of measurement with the instruments of the NRL of the various atmospheric pollutants for which measurements are made.

2.6.6. Annual National Air Pollutant Emissions

The DLI, acting as the National Focal Point for the 1979 Convention on Long-Range Transboundary Air Pollution, was actively involved in the Convention's activities and its Protocols in 2020. Within this

framework, during 2020 the annual emissions of the air pollutants of Cyprus were calculated for the year 2018 and were forwarded to the Executive Body of the Convention and to the European Environment Agency. These data have been included in the relative reports published by the Executive Body of the Convention. In **Table 3.14** and in **Figure 3.13** to **Figure 3.19** of the **Appendix**, the total annual air pollutant emissions per activity for the year 2018 are shown.

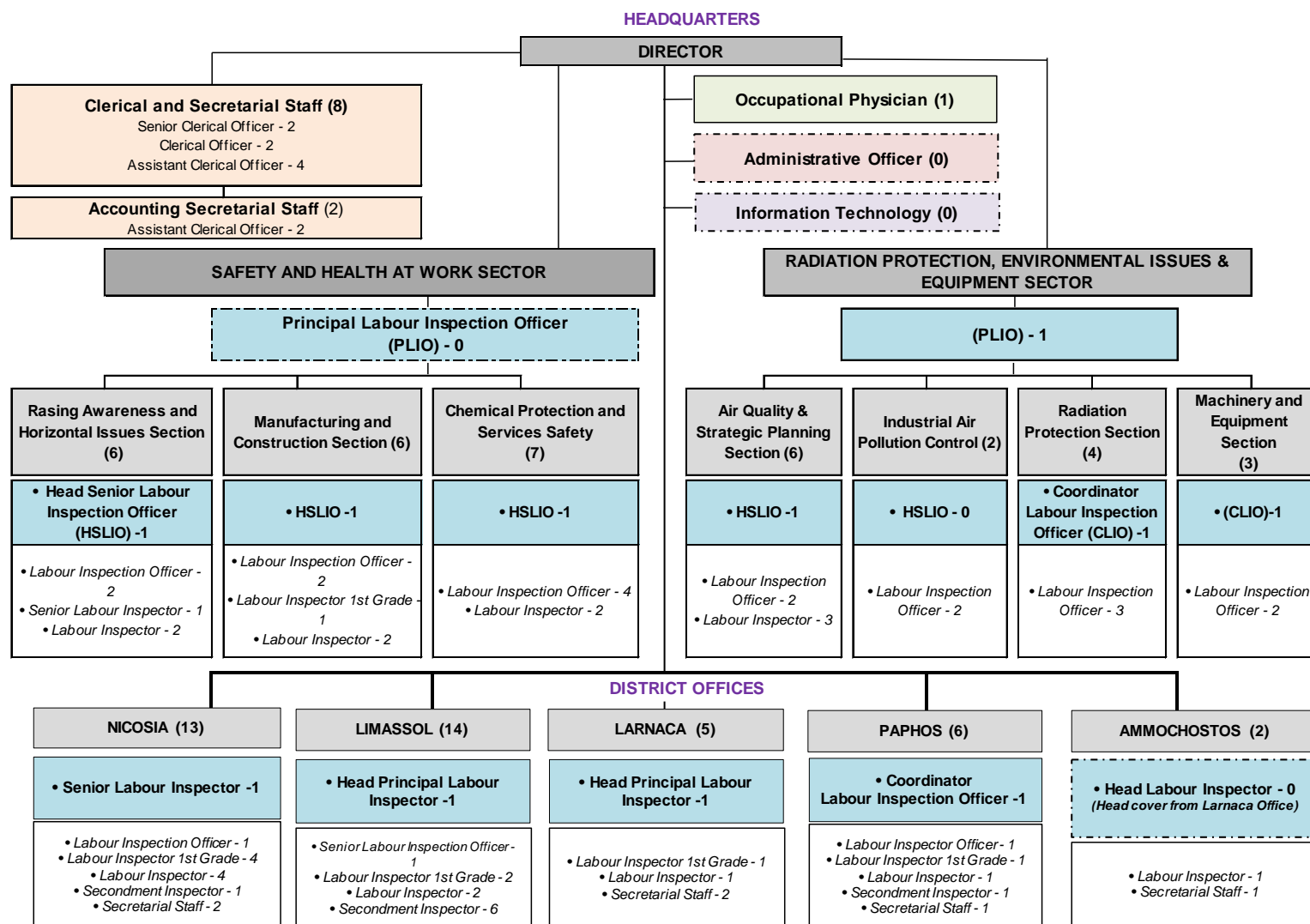
2.6.7. New Air Quality Legislation

During 2020, the Cyprus Parliament approved the following legislative documents which were published in the official government newspaper:

1. The Air Quality (Amendment) Law of 2020 (Law 20(I)/2020).
2. The Air Quality (Reduction of National Emission of Certain Atmospheric Pollutants) Regulations of 2020 (R.A.A. 83/2020).

3. APPENDIX

Chart 3.1: Organizational Chart and Personnel of the Department of Labour Inspection (DLI) 2020



DLI Budget Permanent Posts: 85 (Appointed 61, Vacant Posts 24). Supporting Staff: Secretarial - 18, Occupational Physician - 1, Information Technology - 0, Cleaners - 5 (equivalent), Messengers - 3 (equivalent). Provisional Additional staff: 2. Secondment Inspectors from other Public Services to DLI: 8. Moved from DLI to MLWSI: (1 Senior Labour Inspection Officer, 2 Labour Inspector and 1 Messenger) 4. **Total servicing in DLI: 98**

Table 3.1: Inspection Program for Safety and Health at Work for the Year 2020 – Yearly and Monthly Inspection Activities

S/N	INSPECTION ACTIVITIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PART A – THROUGHOUT THE YEAR													
1	Re-inspection of work places at which a Contravention Letter has been sent or an Improvement Notice has been issued either in the previous or current												
2	Audit of Safety issues management (External and Internal Protection and Prevention Services, Safety Officers)												
3	Examination of applications for the issue of a Planning Permit / Building Permit / Certificates of Final Approval.												
4	Examination of applications and inspection for the issue of a Factory Registration Certificate												
5	Inspection in Nursing Activities (Hospitals, Private clinics, P8610)												
6	Inspections for the Safe Storage of Petroleum Products												
7	Control of Smoking at Workplaces												
8	Control at workplaces where foreign workers are employed, upon information received by the Labour Department												
9	Inspections at units where dangerous chemical substances of “Seveso” category are stored/ used.												
10	Inspections of Manual handling of loads / Prevention of musculoskeletal disorders												
11	Inspections at the Constructor Sector (F41- 43)												
PART B – ON A MONTHLY BASIS													
12	Wholesale trade (G46)												
13	Protection of workers from Heat stress [Work sites (F41- 43)]												
14	Campaign in processing facilities that have not been inspected in the last 5 years												
15	Inspection of Covid-19 prevention measures at construction sites and retail												

Table 3.2: Inspections of Undertakings for the Year 2020 for Safety and Health at Work Issues

S/N	ECONOMIC ACTIVITY	DISTRICT																	
		NICOSIA			LIMASSOL			FAMAGUSTA			LARNACA			PAPHOS			TOTAL		
		No.	% (1)	% (2)	No.	% (1)	% (2)	No.	% (1)	% (2)	No.	% (1)	% (2)	No.	% (1)	% (2)	No.	% (3)	
1	SECTION A — AGRICULTURE, FORESTRY AND FISHING	8	0,3%	42,1%	3	0,2%	15,8%	2	0,3%	10,5%	6	1,0%	31,6%	0	0,0%	0,0%	19	0,3%	
2	SECTION B — MINING AND QUARRYING	2	0,1%	25,0%	4	0,3%	50,0%	0	0,0%	0,0%	2	0,3%	25,0%	0	0,0%	0,0%	8	0,1%	
3	SECTION C — MANUFACTURING	192	8,3%	34,0%	130	9,9%	23,0%	103	13,1%	18,2%	75	12,9%	13,3%	65	6,2%	11,5%	565	9,4%	
4	SECTION D — ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY	1	0,0%	10,0%	2	0,2%	20,0%	0	0,0%	0,0%	5	0,9%	50,0%	2	0,2%	20,0%	10	0,2%	
5	SECTION E — WATER SUPPLY; SEWERAGE, WASTE MANAGEMENT AND REMEDIATION ACTIVITIES	4	0,2%	50,0%	2	0,2%	25,0%	0	0,0%	0,0%	1	0,2%	12,5%	1	0,1%	12,5%	8	0,1%	
6	SECTION F — CONSTRUCTION	1315	56,9%	37,6%	939	71,4%	26,8%	191	24,3%	5,5%	334	57,4%	9,5%	720	69,1%	20,6%	3499	58,0%	
7	SECTION G — WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES	546	23,6%	40,2%	133	10,1%	9,8%	435	55,3%	32,0%	93	16,0%	6,8%	151	14,5%	11,1%	1358	22,5%	
8	SECTION H — TRANSPORTATION AND STORAGE	23	1,0%	39,7%	14	1,1%	24,1%	3	0,4%	5,2%	14	2,4%	24,1%	4	0,4%	6,9%	58	1,0%	
9	SECTION I — ACCOMMODATION AND FOOD SERVICE ACTIVITIES	53	2,3%	30,6%	20	1,5%	11,6%	25	3,2%	14,5%	10	1,7%	5,8%	65	6,2%	37,6%	173	2,9%	
10	SECTION J — INFORMATION AND COMMUNICATION	3	0,1%	37,5%	2	0,2%	25,0%	0	0,0%	0,0%	0	0,0%	0,0%	3	0,3%	37,5%	8	0,1%	
11	SECTION K — FINANCIAL AND INSURANCE ACTIVITIES	8	0,3%	53,3%	6	0,5%	40,0%	0	0,0%	0,0%	0	0,0%	0,0%	1	0,1%	6,7%	15	0,2%	
12	SECTION L — REAL ESTATE ACTIVITIES	1	0,0%	14,3%	5	0,4%	71,4%	0	0,0%	0,0%	1	0,2%	14,3%	0	0,0%	0,0%	7	0,1%	
13	SECTION M — PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES	22	1,0%	48,9%	10	0,8%	22,2%	5	0,6%	11,1%	6	1,0%	13,3%	2	0,2%	4,4%	45	0,7%	
14	SECTION N — ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	11	0,5%	55,0%	3	0,2%	15,0%	1	0,1%	5,0%	2	0,3%	10,0%	3	0,3%	15,0%	20	0,3%	
15	SECTION O — PUBLIC ADMINISTRATION AND DEFENCE; COMPULSORY SOCIAL SECURITY	25	1,1%	58,1%	8	0,6%	18,6%	2	0,3%	4,7%	6	1,0%	14,0%	2	0,2%	4,7%	43	0,7%	
16	SECTION P — EDUCATION	10	0,4%	45,5%	4	0,3%	18,2%	1	0,1%	4,5%	4	0,7%	18,2%	3	0,3%	13,6%	22	0,4%	
17	SECTION Q — HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	49	2,1%	41,5%	23	1,7%	19,5%	12	1,5%	10,2%	16	2,7%	13,6%	18	1,7%	15,3%	118	2,0%	
18	SECTION R — ARTS, ENTERTAINMENT AND RECREATION	14	0,6%	58,3%	4	0,3%	16,7%	2	0,3%	8,3%	2	0,3%	8,3%	2	0,2%	8,3%	24	0,4%	
19	SECTION S — OTHER SERVICE ACTIVITIES	16	0,7%	57,1%	3	0,2%	10,7%	5	0,6%	17,9%	4	0,7%	14,3%	0	0,0%	0,0%	28	0,5%	
20	SECTION T — ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS; UNDIFFERENTIATED GOODS- AND SERVICES-PRODUCING ACTIVITIES OF HOUSEHOLDS FOR OWN USE	8	0,3%	88,9%	0	0,0%	0,0%	0	0,0%	0,0%	1	0,2%	11,1%	0	0,0%	0,0%	9	0,1%	
21	SECTION U — ACTIVITIES OF EXTRATERRITORIAL ORGANISATIONS AND BODIES	0	0,0%	0%	0	0,0%	0%	0	0,0%	0%	0	0,0%	0%	0	0,0%	0%	0	0,0%	
TOTAL NO. OF INSPECTIONS		2311	38,3%		1315	21,8%		787	13,0%		582	9,6%		1042	17,3%		6037		
				(%4)			(%4)			(%4)			(%4)			(%4)			

%1: Percentage contribution of District Inspections for the specific Economic Activity, on the total number of District Inspections.

%2: Percentage contribution of District Inspections for the specific Economic Activity, on the Cyprus wide total number of Inspections of the same Economic Activity.

%3: Percentage contribution of Cyprus wide Inspections for the specific Economic Activity, on the total number of Inspections.

%4: Percentage contribution of District Inspections on the total number of Inspections Cyprus wide.

Table 3.3 Number of Contraventions and Fines imposed on 11 Legal Proceedings completed in 2020 for Safety and Health issues in comparison with previous years

No	Laws/Regulations	Number of Contraventions ¹				Total amount of fines charged in Euros €			
		2017	2018	2019	2020	2017	2018	2019	2020
1	The Safety and Health at Work Law of 1996 - 2015	9 ²	17 ³	11	13	12.750	36.100	32.500	14.400
2	The Factories Law of 1956, Chap. 134	0	2	0	0	0	300	0	0
3	The Safety and Health at Work (Accidents and Dangerous Occurrences Notification) Regulations of 2007	5	0	3	4	3.300	0	1.600	1.550
4	The Safety and Health (Minimum Requirements for Temporary or Mobile Construction Sites) Regulations of 2002 and 2015	13 ⁴	17	6	7	45.200	20.250	6.250	22.000
5	The Management of Safety and Health Issues at Work Regulations of 2002	12	20	5	19	17.000	12.700	5.250	12.300
6	The Minimum Requirements for Safety and Health (Use of Work Equipment at Work) Regulations of 2001 and 2004	5	6	13	8	8.750	9.000	39.500	7.600
7	The Minimum Requirements for Safety and Health at the Workplace Regulations of 2002 and 2004	2	4	2	5	4.500	5.250	1.450	2.450
8	The Minimum Requirements for Safety and Health Signs at Work Regulations of 2000	0	0	0	0	0	0	0	0
9	The Minimum Requirements for Safety and Health (Use of Personal Protective Equipment at Work) Regulations of 2001	1	2 ⁵	0	0	750	2.000	0	0
10	The Safety and Health at Work (Manual Handling of Loads) Regulations of 2001	0	2	0	0	0	3.000	0	0
11	The Employer's Liability (Compulsory Insurance) Laws of 1989 - 2011	0	0	0	2	0	0	0	1.250
12	The Safety and Health at Work (Protection from Asbestos) Regulations of 2006 and 2015	0	0	0	0	0	0	0	0
13	The Safety and Health at Work (Biological Agents) Regulations of 2001	0	0	0	1	0	0	0	850
14	The Safety and Health at Work (Chemical Agents) Regulations of 2001 - 2012	0	0	1	1	0	0	500	850
15	The Safety Committees at Work Regulations of 1997	0	0	0	0	0	0	0	0
16	The Essential Requirements (Machinery) Regulations of 2003 (abolished in 29/12/2009)	0	0	0	0	0	0	0	0
17	The Essential Requirements (Lifts) Regulations of 2003	0	0	0	0	0	0	0	0
TOTAL		47	70	41	60	92.250	88.600	87.050	63.250

¹ A completed case may involve more than one contravention.

² The sentence for one of the contraventions was 1 year of imprisonment with a three-year of suspension.

³ The sentence for two of the contraventions was 1 year of imprisonment with a three-year of suspension.

⁴ The sentence for one of the contraventions was 2 months of imprisonment with a two-year of suspension.

⁵ The sentence for one of the contraventions was 3 months with a two-year of suspension.

Table 3.4: Analysis of Work Accidents for the Year 2020 by Economic Activity Sector, Gender, Age, Degree of Injury & Causation (Employed Persons only, during their work)

S/N	ECONOMIC ACTIVITY (NACE 2)	NO. OF ACCIDENTS	%	GENDER		AGE		INJURY DEGREE		CAUSATION				
				Male	Female	Under 18	8 and Above	Fatal	Non Fatal	Buildings / Structures	Machinery / Equipment	Transportation Means	Materials / Substances	Other Causes
1	SECTION A — AGRICULTURE, FORESTRY AND FISHING	26	1,70%											
2	Crop and animal production, hunting and related service activities	16	1,05%	11	5	0	16	0	16	7	5	0	1	3
3	Forestry and logging	5	0,33%	5	0	0	5	0	5	4	1	0	0	0
4	Fishing and aquaculture	5	0,33%	5	0	0	5	0	5	2	2	0	1	0
5	SECTION B — MINING AND QUARRYING	6	0,39%											
6	Mining of coal and lignite	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
7	Extraction of crude petroleum and natural gas	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
8	Mining of metal ores	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
9	Other mining and quarrying	6	0,39%	6	0	0	6	0	6	2	2	1	1	0
10	Mining support service activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
11	SECTION C — MANUFACTURING	265	17,35%											
12	Manufacture of food products	114	7,47%	64	50	0	114	0	114	45	32	6	28	3
13	Manufacture of beverages	10	0,65%	8	2	0	10	0	10	1	3	2	3	1
14	Manufacture of tobacco products	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
15	Manufacture of textiles	1	0,07%	1	0	0	1	0	1	1	0	0	0	0
16	Manufacture of wearing apparel	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
17	Manufacture of leather and related products	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
18	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	16	1,05%	16	0	0	16	0	16	4	6	2	4	0
19	Manufacture of paper and paper products	1	0,07%	1	0	0	1	0	1	0	1	0	0	0
20	Printing and reproduction of recorded media	3	0,20%	1	2	0	3	0	3	0	2	0	0	1
21	Manufacture of coke and refined petroleum products	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
22	Manufacture of chemicals and chemical products	2	0,13%	2	0	0	2	0	2	1	0	1	0	0
23	Manufacture of basic pharmaceutical products and pharmaceutical preparations	12	0,79%	9	3	0	12	0	12	1	5	2	3	1
24	Manufacture of rubber and plastic products	8	0,52%	8	0	0	8	0	8	3	0	2	0	3
25	Manufacture of other non-metallic mineral products	28	1,83%	28	0	0	28	0	28	7	6	5	10	0
26	Manufacture of basic metals	1	0,07%	1	0	0	1	0	1	0	1	0	0	0
27	Manufacture of fabricated metal products, except machinery and equipment	44	2,88%	43	1	0	44	0	44	13	15	0	16	0
28	Manufacture of computer, electronic and optical products	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
29	Manufacture of electrical equipment	6	0,39%	6	0	0	6	0	6	1	3	0	1	1
30	Manufacture of machinery and equipment n.e.c.	4	0,26%	4	0	0	4	0	4	1	1	0	2	0
31	Manufacture of motor vehicles, trailers and semi-trailers	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
32	Manufacture of other transport equipment	1	0,07%	1	0	0	1	0	1	0	0	1	0	0
33	Manufacture of furniture	5	0,33%	5	0	0	5	0	5	1	3	0	1	0
34	Other manufacturing	9	0,59%	8	1	0	9	0	9	2	3	1	3	0
35	Repair and installation of machinery and equipment	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
36	SECTION D — ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY	12	0,79%											
37	Electricity, gas, steam and air conditioning supply	12	0,79%	12	0	0	12	0	12	7	1	1	2	1
38	SECTION E — WATER SUPPLY SEWERAGE, WASTE MANAGEMENT AND REMEDIATION ACTIVITIES	27	1,77%											
39	Water collection, treatment and supply	9	0,59%	9	0	0	9	0	9	1	4	1	2	1
40	Sewerage	4	0,26%	4	0	0	4	0	4	2	0	0	2	0
41	Waste collection, treatment and disposal activities, materials recovery	11	0,72%	11	0	0	11	0	11	2	2	4	3	0
42	Remediation activities and other waste management services	3	0,20%	3	0	0	3	0	3	0	0	1	0	2
43	SECTION F — CONSTRUCTION	329	21,55%											
44	Construction of buildings	224	14,67%	220	4	0	224	4	220	115	32	10	53	14
45	Civil engineering	12	0,79%	12	0	0	12	1	11	2	4	0	3	3
46	Specialised construction activities	93	6,09%	93	0	0	93	4	89	56	14	1	21	1
47	SECTION G — WHOLESALE AND RETAIL TRADE, REPAIR OF MOTOR VEHICLES AND MOTORCYCLES	229	15,00%											
48	Wholesale and retail trade and repair of motor vehicles and motorcycles	30	1,96%	29	1	0	30	0	30	9	7	6	5	3
49	Wholesale trade, except of motor vehicles and motorcycles	49	3,21%	43	6	0	49	1	48	15	9	13	10	2
50	Retail trade, except of motor vehicles and motorcycles	150	9,82%	78	72	0	150	1	149	47	73	3	23	4
51	SECTION H — TRANSPORTATION AND STORAGE	95	6,22%											
52	Land transport and transport via pipelines	19	1,24%	19	0	0	19	3	16	4	2	10	1	2
53	Water transport	2	0,13%	0	2	0	2	0	2	1	0	1	0	0
54	Air transport	0	0,00%	0	0	0	0	0	0	0	0	0	0	0
55	Warehousing and support activities for transportation	67	4,39%	57	10	0	67	1	66	20	16	10	15	6
56	Postal and courier activities	7	0,46%	7	0	0	7	0	7	2	0	2	1	2
57	SECTION I — ACCOMMODATION AND FOOD SERVICE ACTIVITIES	286	18,73%											
58	Accommodation	82	5,37%	48	34	0	82	0	82	40	25	3	10	4
59	Food and beverage service activities	204	13,36%	161	43	1	203	1	203	78	28	73	19	6

S/N	ECONOMIC ACTIVITY (NACE 2)	NO. OF ACCIDENTS	%	GENDER		AGE		INJURY DEGREE		CAUSATION					
				Male	Female	Under 18	8 and Above	Fatal	Non Fatal	Buildings / Structures	Machinery / Equipment	Transportation Means	Materials / Substances	Other Causes	
60	SECTION J — INFORMATION AND COMMUNICATION	9	0,59%												
61	Publishing activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
62	Motion picture, video and television programme production, sound recording and music publishing activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
63	Programming and broadcasting activities	1	0,07%	0	1	0	1	0	1	1	0	0	0	0	
64	Telecommunications	8	0,52%	8	0	0	8	0	8	2	1	3	2	0	
65	Computer programming, consultancy and related activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
66	Information service activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
67	SECTION K — FINANCIAL AND INSURANCE ACTIVITIES	22	1,44%												
68	Financial service activities, except insurance and pension funding	17	1,11%	5	12	0	17	0	17	13	0	1	3	0	
69	Insurance, reinsurance and pension funding, except compulsory social security	1	0,07%	1	0	0	1	0	1	0	0	1	0	0	
70	Activities auxiliary to financial services and insurance activities	4	0,26%	3	1	0	4	0	4	1	0	3	0	0	
71	SECTION L — REAL ESTATE ACTIVITIES	3	0,20%												
72	Real estate activities	3	0,20%	2	1	0	3	0	3	2	0	1	0	0	
73	SECTION M — PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES	10	0,65%												
74	Legal and accounting activities	3	0,20%	2	1	0	3	0	3	2	0	1	0	0	
75	Activities of head offices; management consultancy activities	2	0,13%	2	0	0	2	0	2	0	0	2	0	0	
76	Architectural and engineering activities; technical testing and analysis	1	0,07%	1	0	0	1	0	1	0	0	1	0	0	
77	Scientific research and development	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
78	Advertising and market research	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
79	Other professional, scientific and technical activities	3	0,20%	3	0	0	3	0	3	1	1	0	1	0	
80	Veterinary activities	1	0,07%	1	0	0	1	0	1	1	0	0	0	0	
81	SECTION N — ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	46	3,01%												
82	Rental and leasing activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
83	Employment activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
84	Travel agency, tour operator reservation service and related activities	1	0,07%	0	1	0	1	0	1	1	0	0	0	0	
85	Security and investigation activities	6	0,39%	2	4	0	6	0	6	4	0	1	1	0	
86	Services to buildings and landscape activities	14	0,92%	5	9	0	14	0	14	9	3	1	1	0	
87	Office administrative, office support and other business support activities	25	1,64%	23	2	0	25	0	25	8	4	1	5	7	
88	SECTION O — PUBLIC ADMINISTRATION AND DEFENCE, COMPULSORY SOCIAL SECURITY	86	5,63%												
89	Public administration and defence; compulsory social security	86	5,63%	65	21	0	86	0	86	39	11	11	10	15	
90	SECTION P — EDUCATION	30	1,96%												
91	Education	30	1,96%	8	22	0	30	0	30	24	2	0	0	4	
92	SECTION Q — HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	20	1,31%												
93	Human health activities	14	0,92%	7	7	0	14	0	14	5	5	1	2	1	
94	Residential care activities	3	0,20%	1	2	0	3	0	3	0	0	0	2	1	
95	Social work activities without accommodation	3	0,20%	1	2	0	3	0	3	2	1	0	0	0	
96	SECTION R — ARTS, ENTERTAINMENT AND RECREATION	5	0,33%												
97	Creative, arts and entertainment activities	1	0,07%	1	0	0	1	0	1	1	0	0	0	0	
98	Libraries, archives, museums and other cultural activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
99	Gambling and betting activities	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
100	Sports activities and amusement and recreation activities	4	0,26%	2	2	0	4	0	4	3	0	0	0	1	
101	SECTION S — OTHER SERVICE ACTIVITIES	14	0,92%												
102	Activities of membership organisations	0	0,00%	0	0	0	0	0	0	0	0	0	0	0	
103	Repair of computers and personal and household goods	3	0,20%	3	0	0	3	0	3	1	1	0	1	0	
104	Other personal service activities	11	0,72%	8	3	0	11	0	11	3	1	3	2	2	
105	SECTION T — ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS; UNDIFFERENTIATED GOODS- AND SERVICES-PRODUCING ACTIVITIES OF HOUSEHOLDS FOR OWN USE	6	0,39%												
106	Activities of households as employers of domestic personnel	5	0,33%	2	3	0	5	0	5	3	2	0	0	0	
107	Undifferentiated goods- and services-producing activities of private households for own use	1	0,07%	0	1	0	1	0	1	1	0	0	0	0	
108	SECTION U — ACTIVITIES OF EXTRATERRITORIAL ORGANISATIONS AND BODIES	1	0,07%												
109	Activities of extraterritorial organisations and bodies	1	0,07%	1	0	0	1	0	1	0	1	0	0	0	
TOTAL		1.527		1.196	331	1	1.526	16	1.511	624	341	193	274	95	

Figure 3.1: Analysis of Work Accidents by Economic Activity for the Year 2020 (Employed Persons only, during their work)

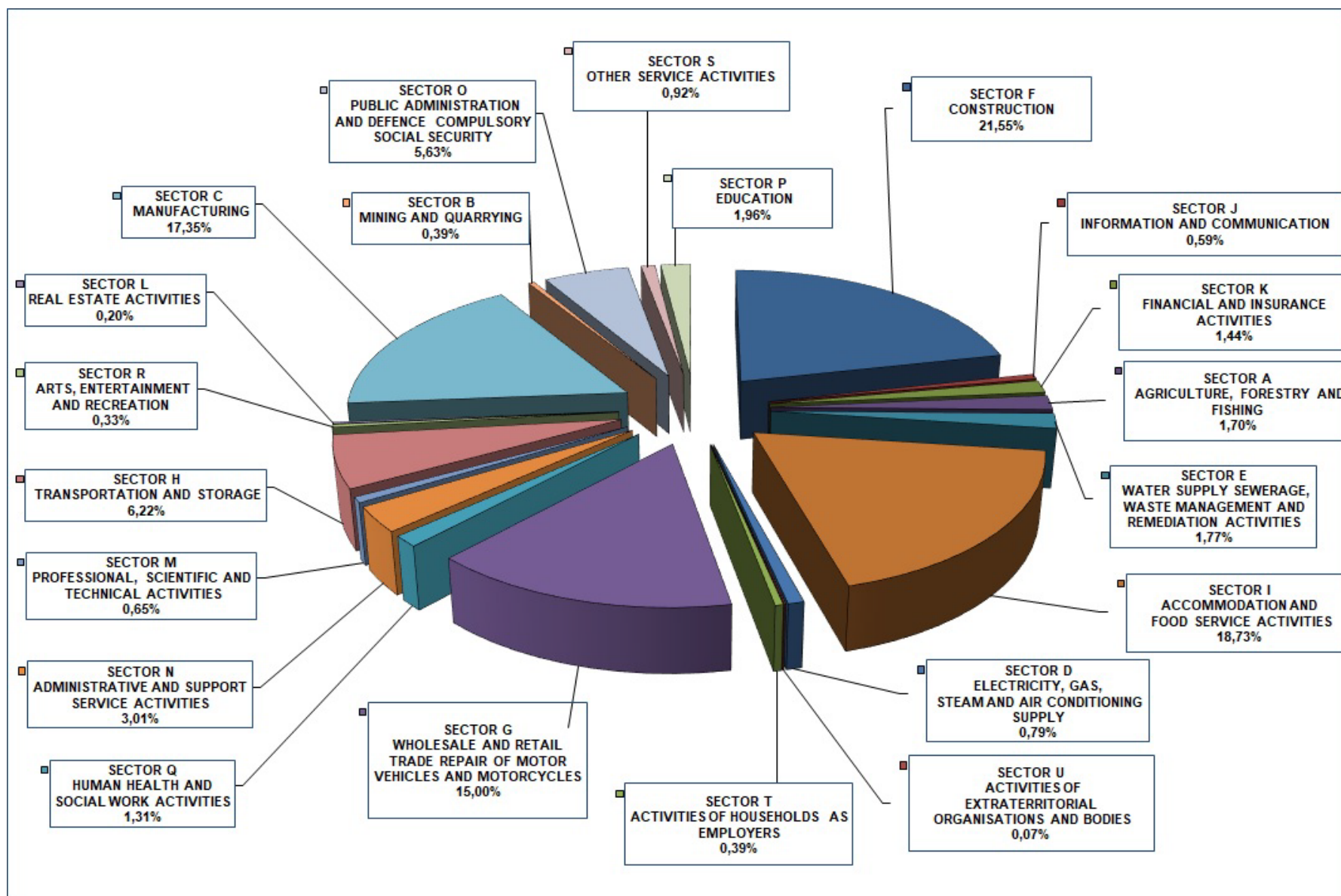


Figure 3.2: Accidents Reported during 2009 – 2020 (Employed Persons only, during their work)

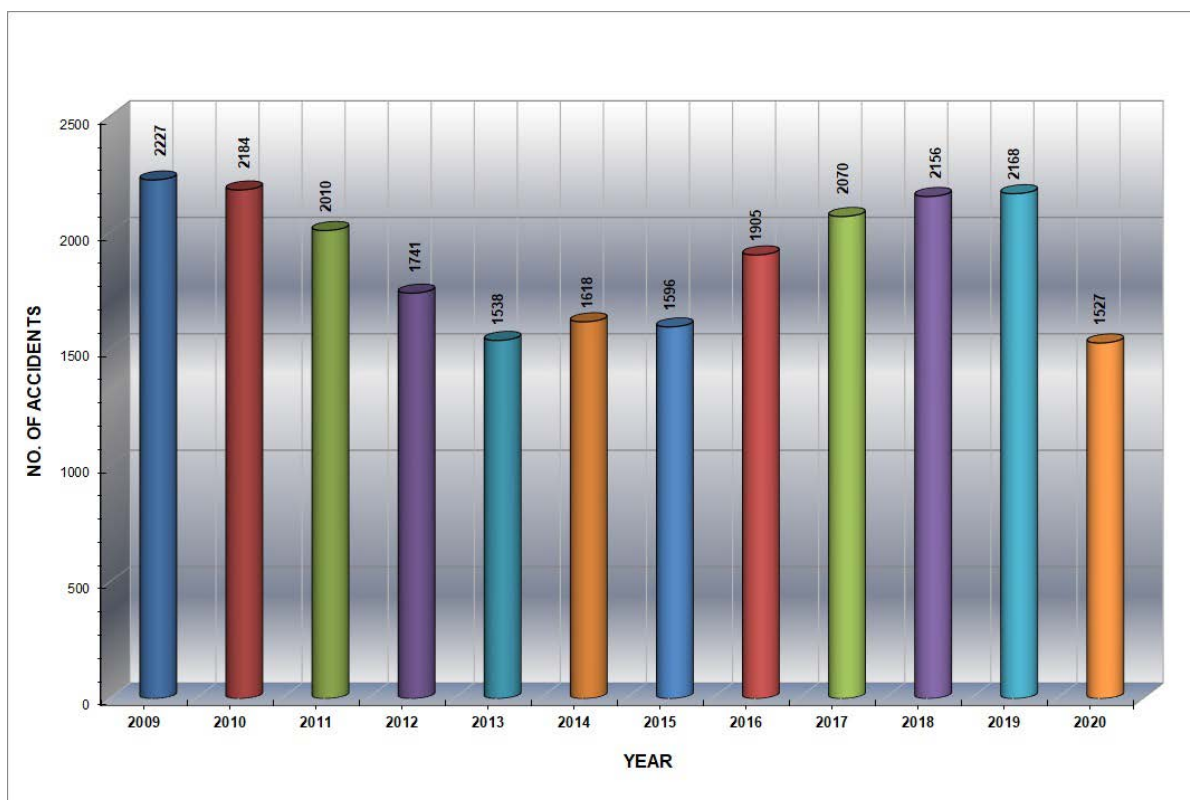


Figure 3.3: Analysis of Work Accidents Reported during the Year 2020 by Cause (Employed Persons only, during their work)

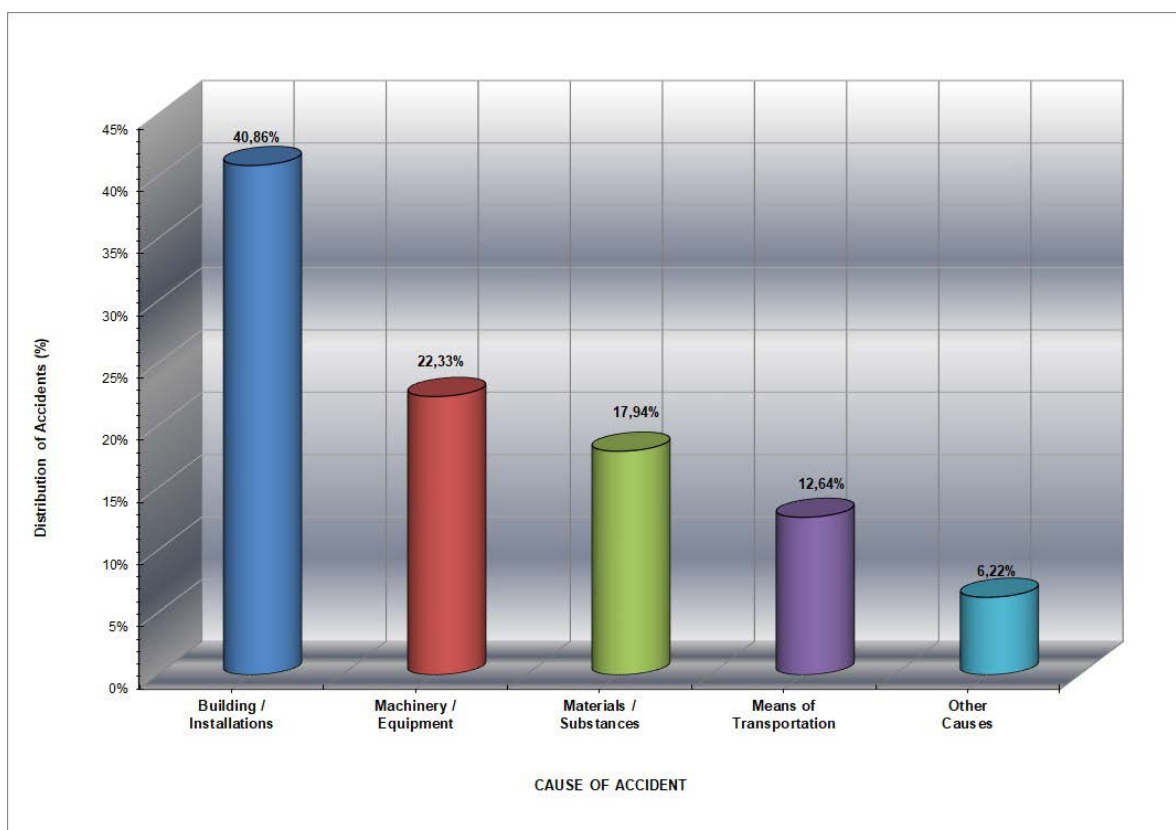


Table 3.5: Analysis of Fatal Accidents Occurred to employed person during work**Total No. of Accidents: 13** (*Accidents Reportable According to Legislation*)

No.	District	Number of Victims	Economic Activity Sector of Employer	Accident Causation
1.	Nicosia	1	Assembly of metal shelves	Fall from a height
2.	Pafos	1	Construction - Earth moving works	Crushed by forklift
3.	Ammochostos	1	Construction - Air conditioning installations	Fall from a height (portable ladder - height 3m)
4.	Pafos	1	Construction - Bar bending works	Fall from a height (floor under construction - height 8m)
5.	Nicosia	1	Passenger land transport	Crushed by bus
6.	Limassol	1	Freight transport	Crushed by timber bundles
7.	Limassol	1	Construction	Fall from a height
8.	Limassol	1	Construction	Fall from a height (floor under construction - height 23m)
9.	Larnaca	1	Transport and Storage	Fall from height (height 3,5m)
10.	Limassol	1	Wholesale of fruits and vegetables	Impact from metal objects (fell from the rear of a leading double-cab vehicle)
11.	Limassol	1	Trade of building materials	Beating and trapping by the crane arm of a crane truck
12.	Nicosia	1	Preparation - Delivery of ready meals	Road accident (collision with another vehicle)
13.	Limassol	1	Road construction maintenance work	Road accident (hit by a passing vehicle)

Table 3.6: Analysis of Fatal Accidents Occurred to Persons on their way to Work**Total No. of Accidents: 1** (*Accidents Reportable According to Legislation*)

No.	District	Number of Victims	Economic Activity Sector of Employer	Accident Causation
1	Nicosia	1	Manufacture of plastic packaging	Road accident

Table 3.7: Analysis of Fatal Accidents Occurred to Persons out of Work**Total No. of Accidents: 1** (*Accidents Reportable According to Legislation*)

No.	District	Number of Victims	Economic Activity Sector of Employer	Accident Causation
1	Nicosia	1	Picking of vegetables	Drowning (in cistern)

Figure 3.4: Fatal Accidents Reported during the Period 2009 – 2020 (Employed Persons only, during their Work)

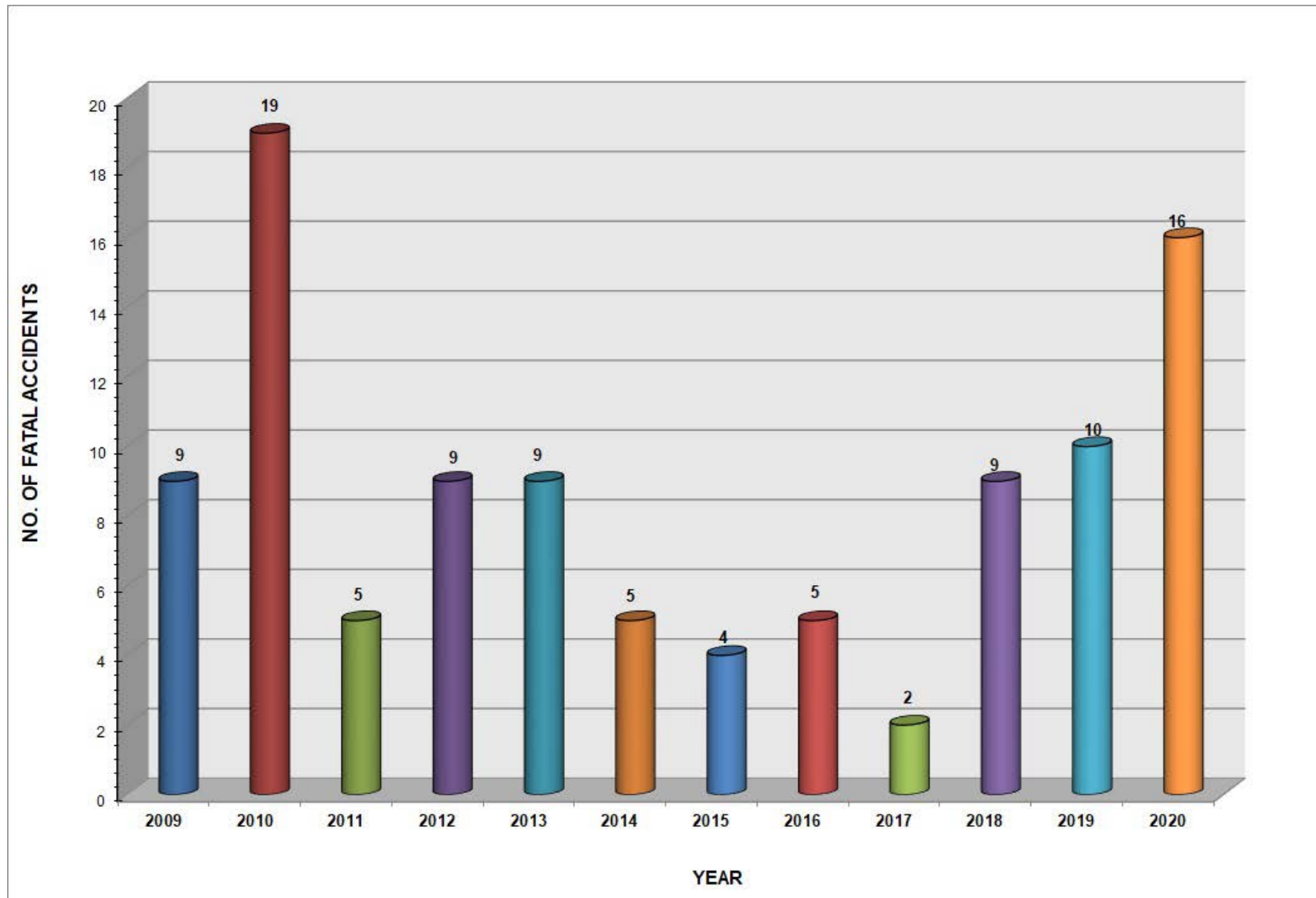


Figure 3.5: Frequency Index by Economic Activity for the Year 2020 (Preliminary Results)

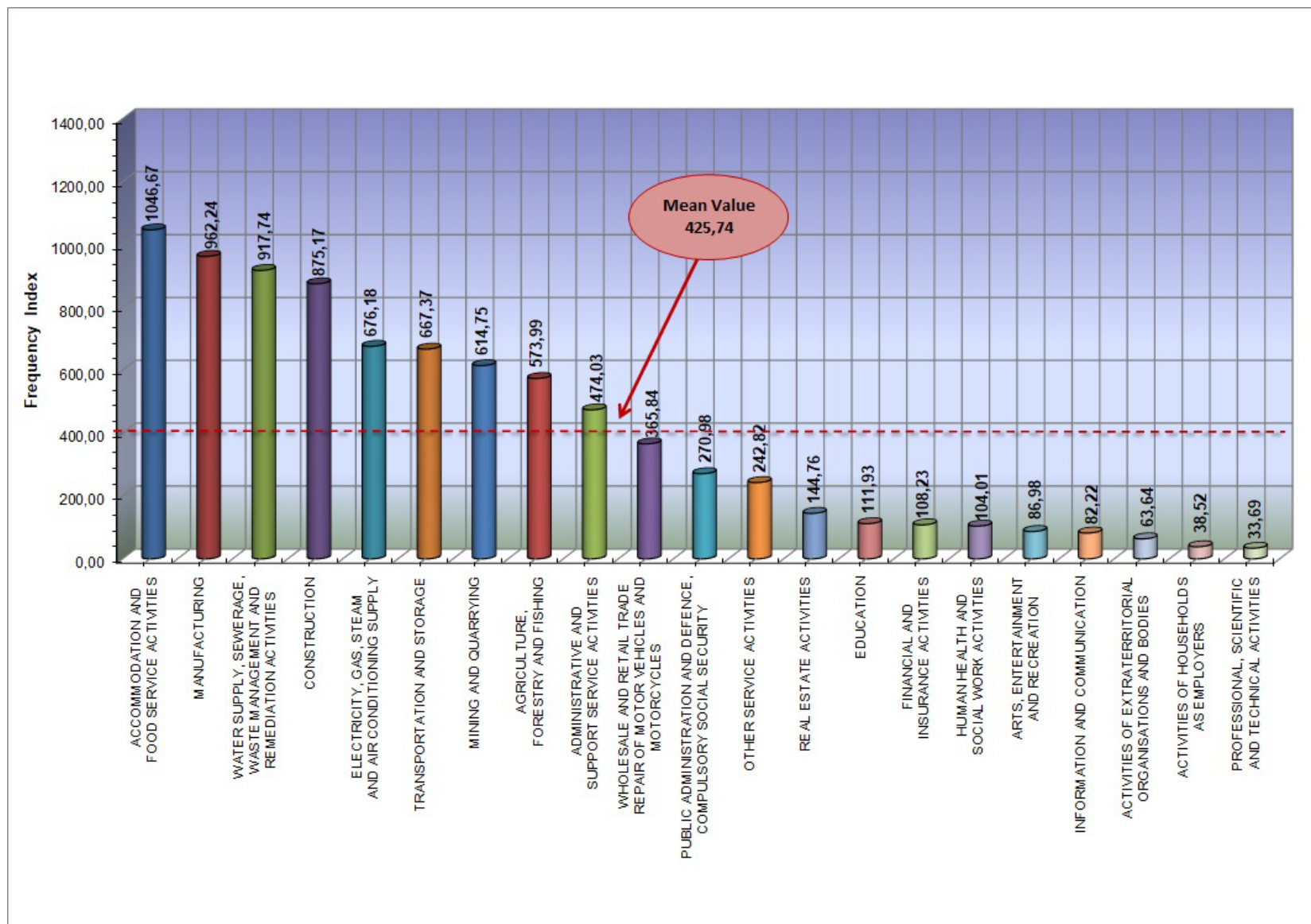
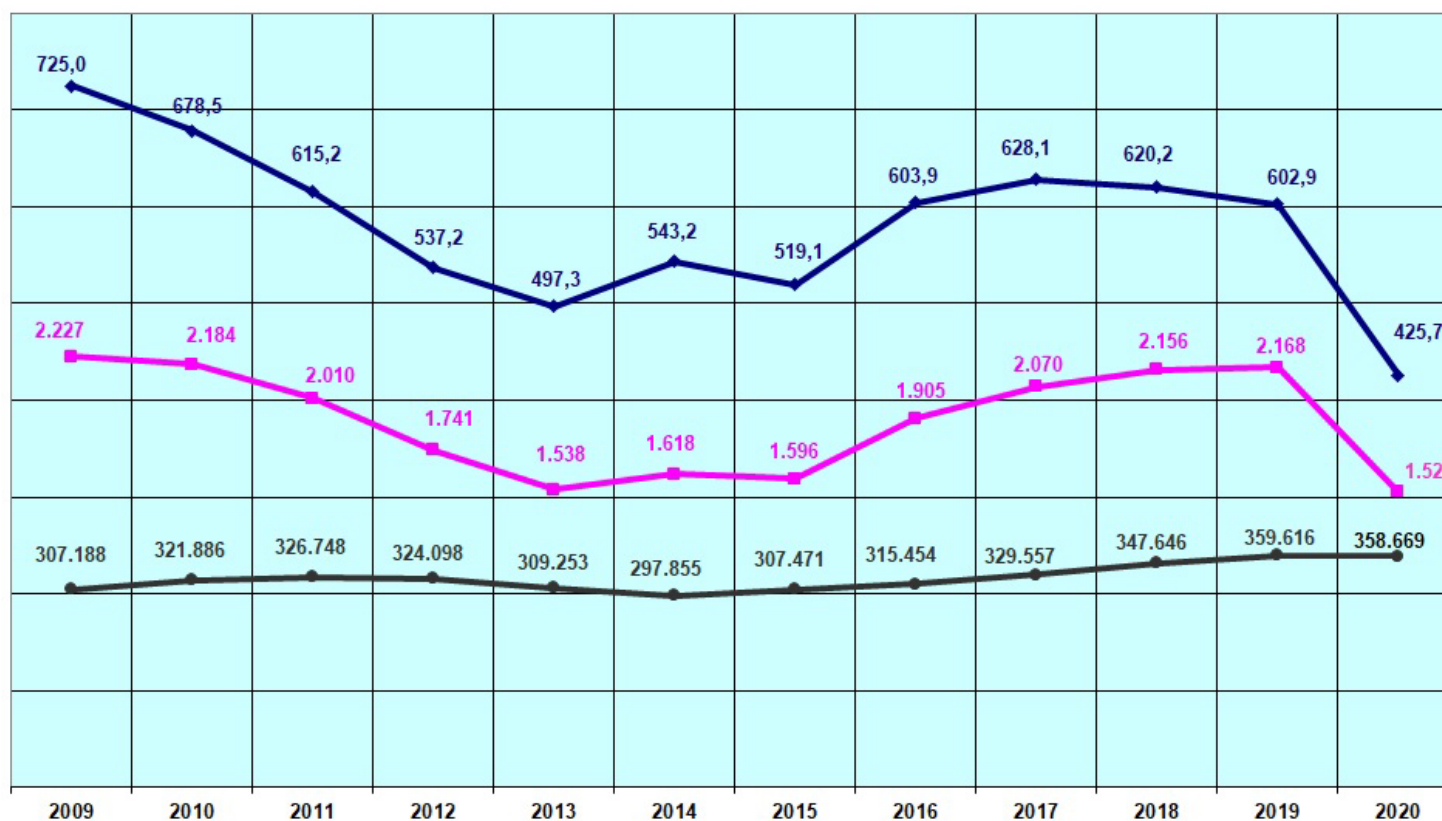


Figure 3.6: Trend of Frequency Index – No of Accidents, No of Employees, Totals – Averages for the Period 2009 – 2020



INCIDENCE RATE	NUMBER OF ACCIDENTS ⁽¹⁾	NUMBER OF EMPLOYEES
2009 – 2020: - 41,5 %	2009 – 2020: - 31,4%	2009 – 2020: 17,1%
725,0 - 424,4 ↓	2.227 – 1.527 ↓	307.188 – 359.833 ↑

Note 1: Number of accidents, refers to accidents that occurred to employees, during their work and reported to the Department of Labour Inspection.

Figure 3.7: Inspections of the Chemical Substances Section in 2020

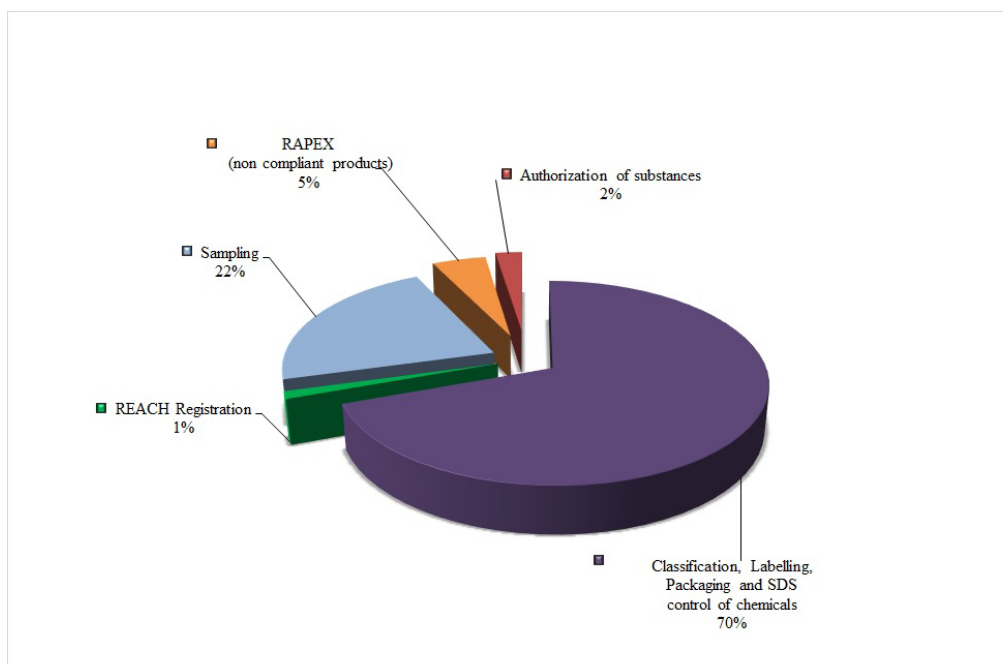


Table 3.8: Number of Inspections for Chemicals per subject in 2020

Subject	Number of Inspections *
Classification, Labelling, Packaging and SDS control of chemicals	173
REACH Registration	1
Sampling (toys, stationary, superglues)	55
RAPEX (non compliant products)	12
Complaints	12
Authorization of substances	6

* Some inspections covered more than one subjects

Table 3.9: Number of samples analysed and number of non-compliant products in 2020

Analysis of:	Samples analysed	Non – Compliant Products
Superglues or other professional glues for Benzene, Toluene and Chloroform	20	0
Toys and child care articles for phthalates content (phthalates are toxic for reproduction)	41	12
Air fresheners	15	0
Leather articles for Chromium VI	5	Not Available
Bleaching and other cleansing products for classification, labelling and packaging	20	0
Paints for VOCs	7	5
Thermal paper for Bisphenol A (BPA)	6	1

Table 3.10: Machinery Inspections in 2020

No	TYPE OF MACHINERY	DISTRICT																	
		NICOSIA			LIMASSOL			LARNACA			FAMAGUSTA			PAPHOS			TOTAL		
		No.	%(1)	%(2)	No.	%(1)	%(2)	No.	%(1)	%(2)	No.	%(1)	%(2)	No.	%(1)	%(2)	No.	%(3)	
1	LIFTING MACHINERY AND DEVICES	64	19,10%	41,03%	19	6,83%	12,18%	64	24,33%	41,03%	4	6,15%	2,56%	5	8,20%	3,21%	156	15,57%	
2	CRANES (MOBILE & TOWER)	98	29,25%	26,27%	131	47,12%	35,12%	96	36,50%	25,74%	39	60,00%	10,46%	9	14,75%	2,41%	373	37,23%	
3	BUILDING CRANES	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	
4	STEAM BOILERS	106	31,64%	28,80%	112	40,29%	30,43%	87	33,08%	23,64%	22	33,85%	5,98%	41	67,21%	11,14%	368	36,73%	
5	STEAM RECEIVERS	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	
6	AIR RECEIVERS	67	20,00%	63,81%	16	5,76%	15,24%	16	6,08%	15,24%	0	0,00%	0,00%	6	9,84%	5,71%	105	10,48%	
7	CHAINS	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	
8	ROPES	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	
9	LIFTING TACKLES	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	0,00%	0	0,00%	
TOTAL No. OF MACHINERY INSPECTIONS		335	33,43%		278	27,74%		263	26,25%		65	6,49%		61	6,09%		1.002		
		%(4)			%(4)			%(4)			%(4)			%(4)					

Table Notes:

1. Percentage contribution on the Total Number of Inspections for the same District.
2. Percentage contribution on the Total Number of Inspections for the same Machinery Type Cyprus wide.
3. Percentage contribution on the Total Number of Inspections Cyprus wide.
4. Percentage contribution of District Inspections on the Total Number of Inspections Cyprus wide.

Inspections of Inspectable Machinery and LPG Installations

Table 3.11: Inspections of Inspectable Machinery

Machinery Type	Number of Inspections		Maximum Prescribed Period between Inspections
	2019	2020	
Cranes and other Lifting Devices	624	529	14 months
Steam Boilers	313	368	14 - 18 months
Steam Receivers	18	0	26 months
Air Receivers	185	105	26 months
Ropes	0	0	6 months
TOTAL	1.140	1.002	

Table 3.12: LPG Inspection Analysis per District in 2020

Inspection reason	DISTRICT					Total
	Nicosia	Limassol	Larnaca	Pafos	Ammochostos	
	Nr	Nr	Nr	Nr	Nr	Nr
Examination report of LPG installation on a vehicle	12	6	1	2	0	21
Complaint Investigation	15	4	0	6	2	27
Licensing of LPG Storage	153	146	87	174	84	644
LPG Storage Inspection (without Licensing)	0	14	0	1	0	15
Autogas Workshops or MOT Inspection	3	1	0	3	0	7
Autogas Refuelling Stations Inspection	3	1	1	2	2	9
Inspection Total	186	172	89	188	88	723

**Installations for which Air Emission Permits
and Industrial Emissions Permits were issued in 2020**

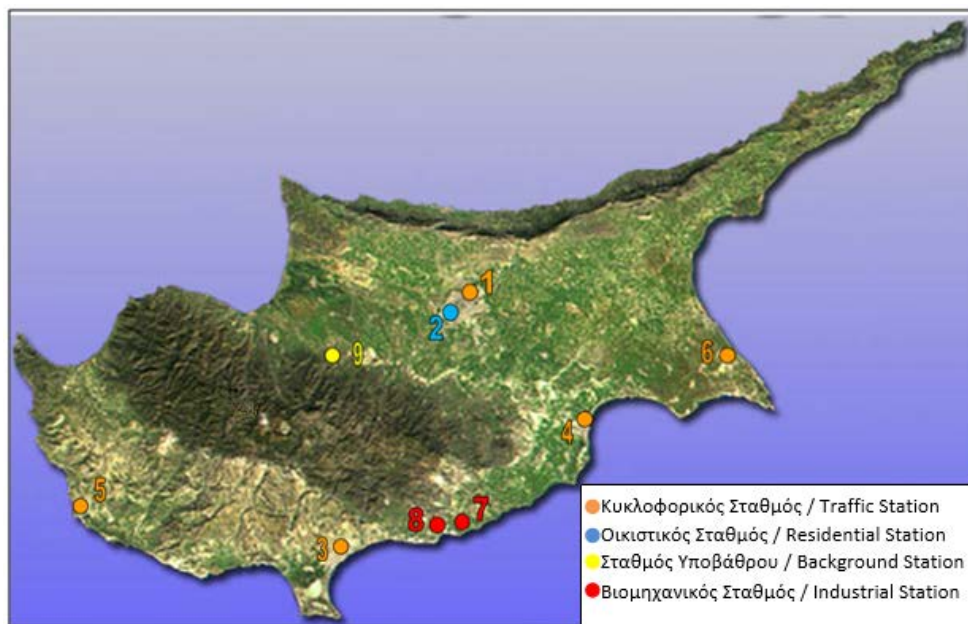
Table 3.13: Air Emission Permits and Industrial Emission Permits

Installation Category	Number of Air Emission Permits granted in 2020
Petrol Stations	4
Petroleum Storage	1
Wood Treatment	3
Production of Pharmaceuticals	1
Production of Paints	3
Crushing Plants	1
Total	13

Industrial Emissions Permits granted by the Minister of Labour, Welfare and Social Insurance for installations using organic solvents	
Installation Category	Number of Air Emission Permits granted in 2020
Dry Cleaning	6
Use of Organic Solvents	1
Total	7

Industrial Emissions Permits granted by the Minister of Labour, Welfare and Social Insurance and the Minister of Agriculture, Rural Development and Environment	
Installation Category	Number of industrial Emissions Permits granted in 2020
Ceramic products	1
Integrated Installation for the Management of Solid Domestic Waste	1
Total	2

Picture 3.1: Ambient Air Quality Monitoring Network



Picture 3.2: Photo of Atmospheric Air Quality Monitoring Station



Figure 3.8: Annual average values of NO₂, SO₂, PM₁₀, O₃, CO at the Nicosia Traffic Station

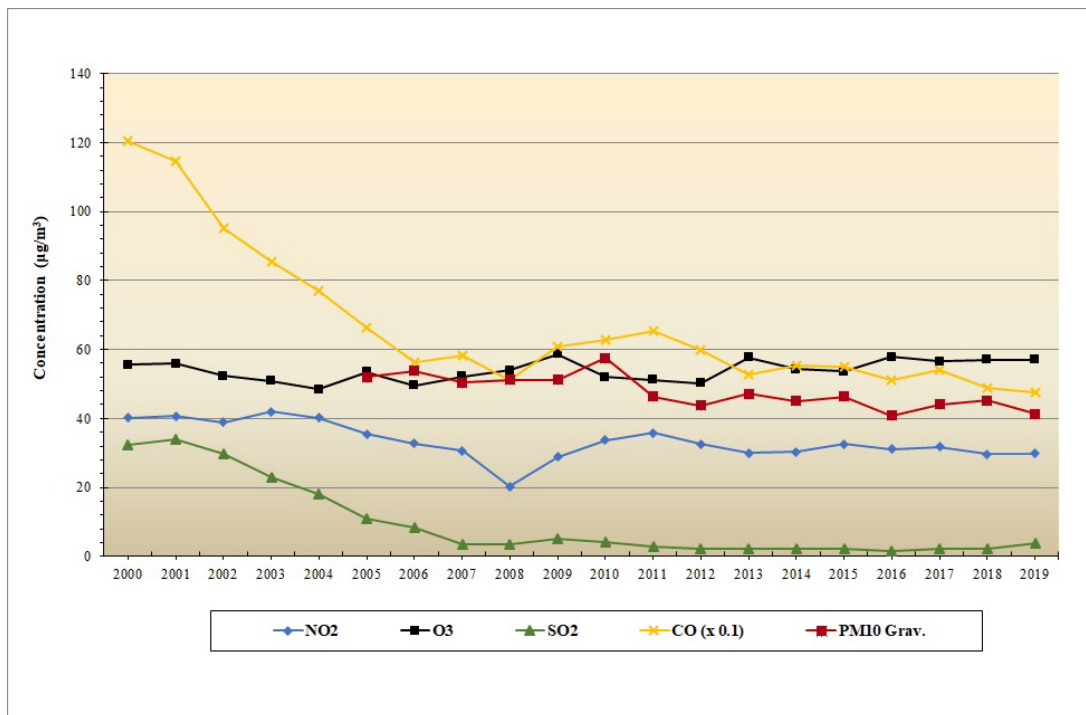


Figure 3.9: Annual average values of Ozone (O₃) at the Stations of the Air Quality Monitoring Network

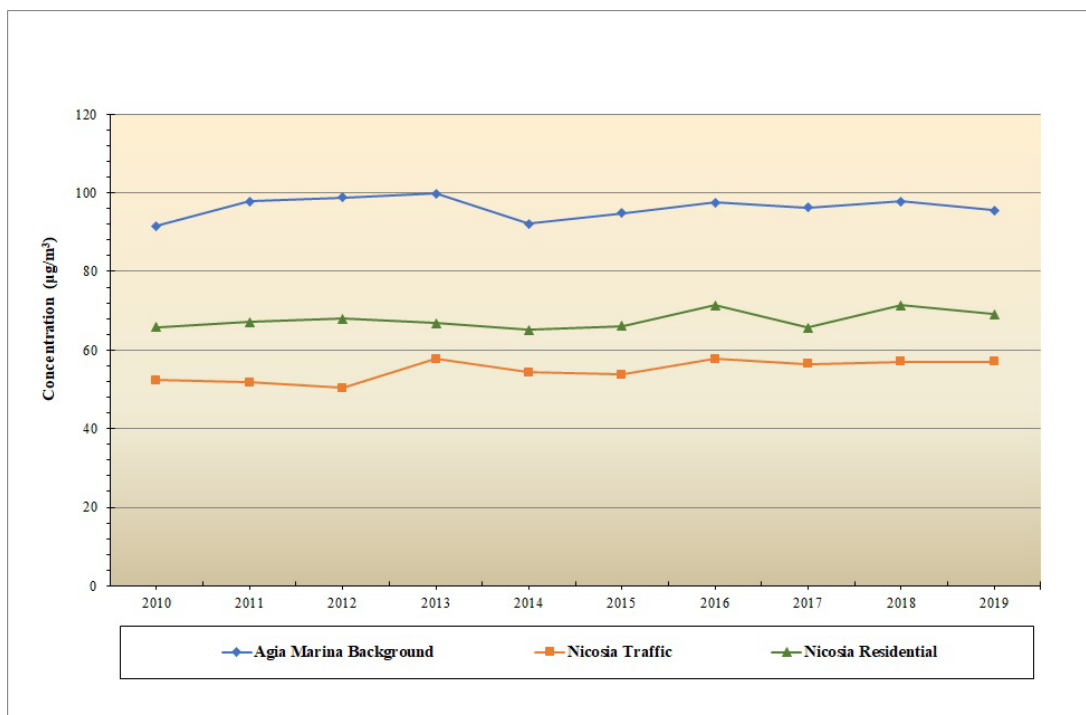


Figure 3.10: Annual average values of PM₁₀ at the Traffic Stations of the Air Quality Monitoring Network

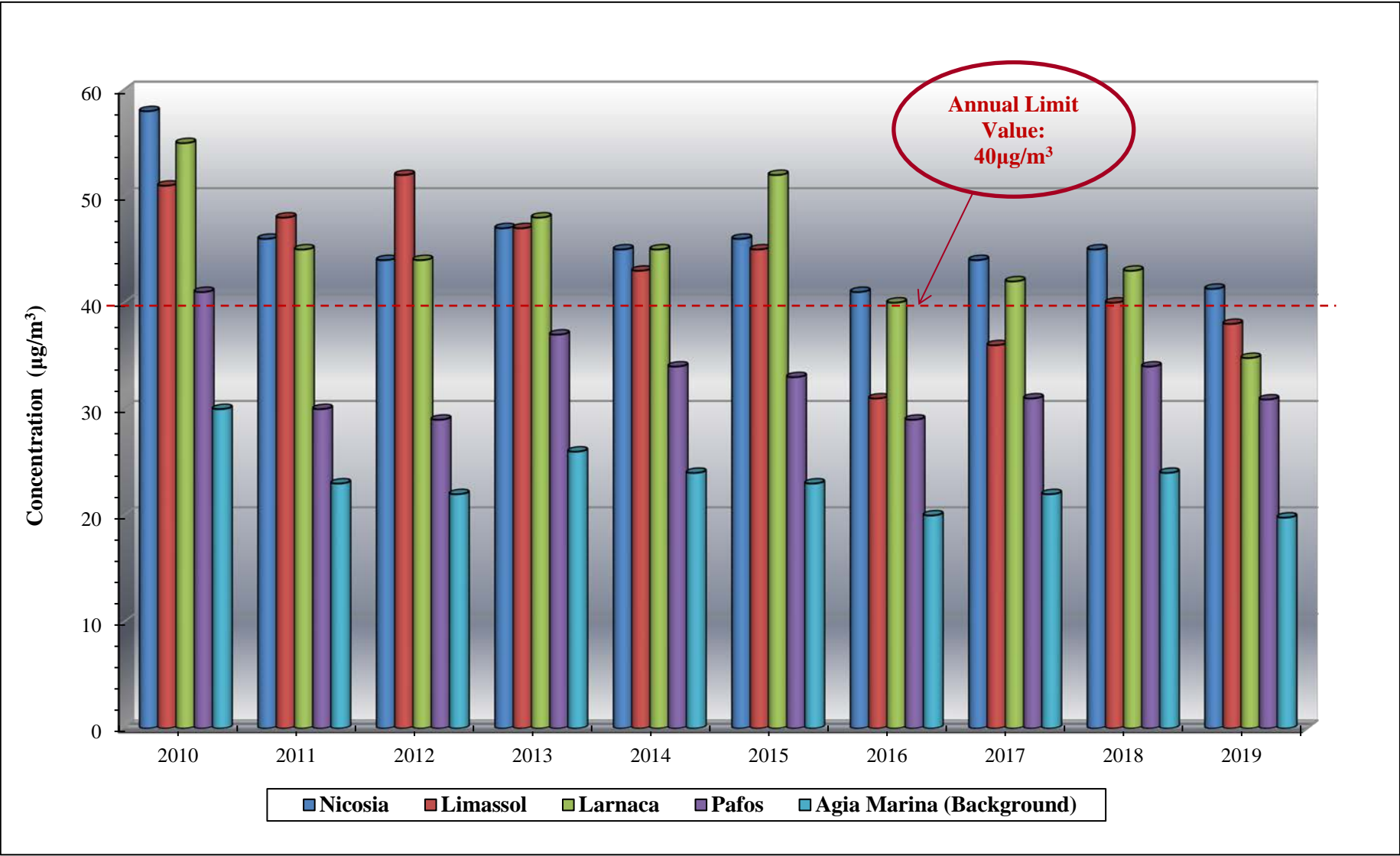


Figure 3.11: Number of exceedances of the daily limit value of PM₁₀ (50µg/m³) at the traffic stations of the Air Quality Monitoring Network

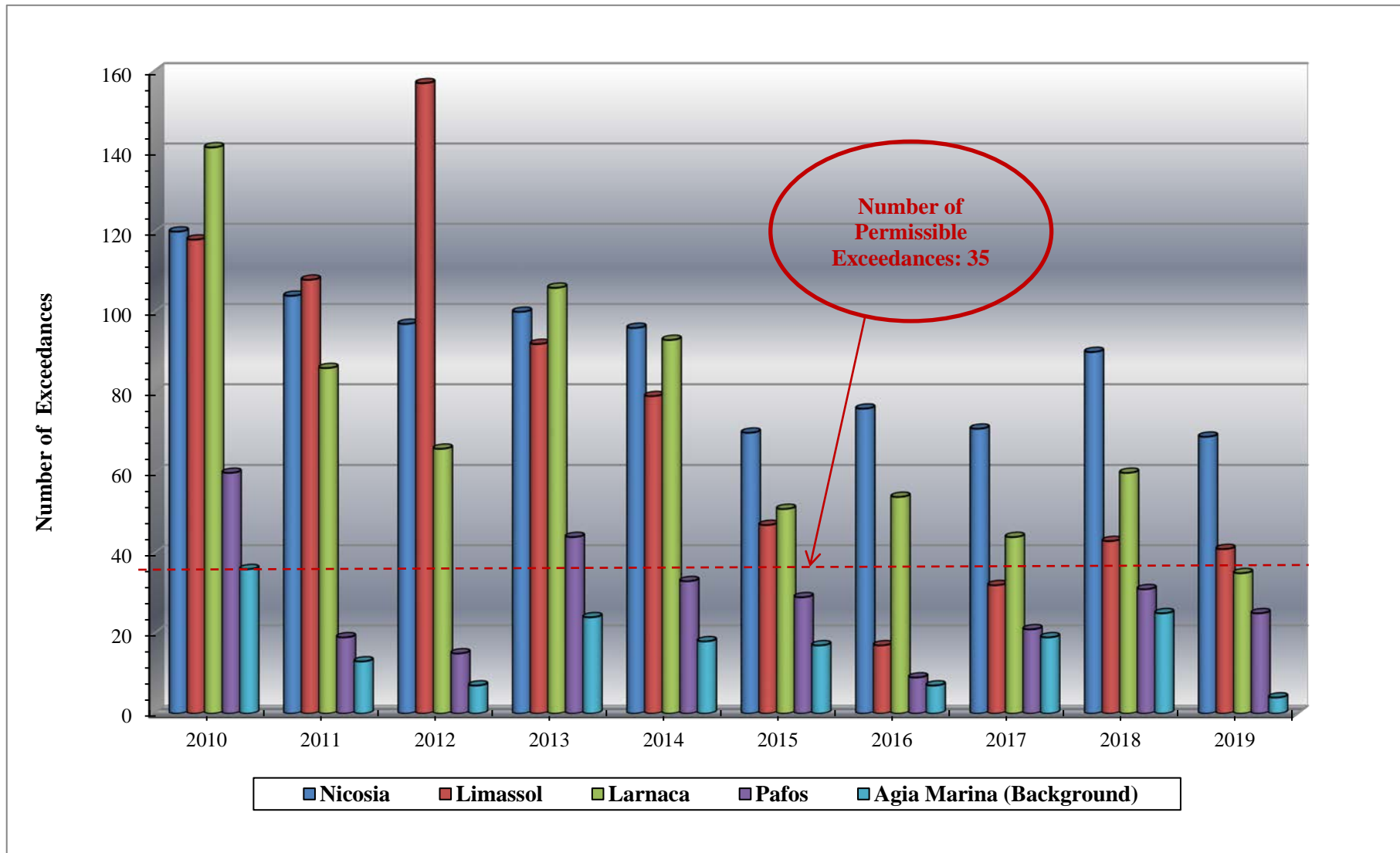


Figure 3.12: Annual average values of PM_{2.5} at the residential stations of the Air Quality Monitoring Network

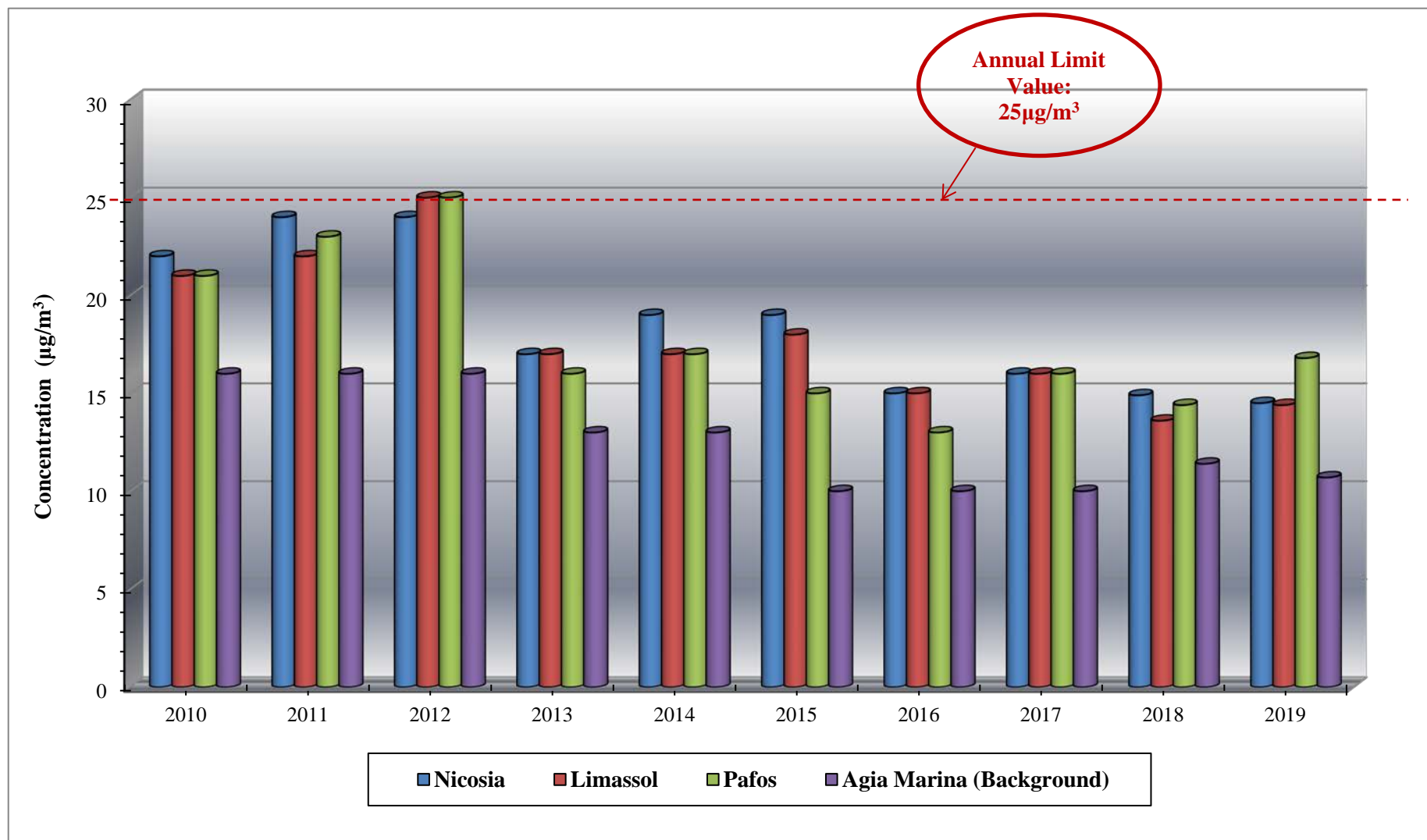


Table 3.14: National Annual Emissions per category (Year 2018)

ECONOMIC ACTIVITY	NO _x	NMVOC	SO _x	NH ₃	PM _{2.5}	PM ₁₀	TSP	CO	Pb	Cd	Hg	DIOX
	Gg NO ₂	Gg	Gg SO ₂	Gg	Gg	Gg	Gg	Gg	Mg	Mg	Mg	g I-Teq
Public Electricity and heat production	3,63	0,08	15,37	NE	0,21	0,3	0,4	0,32	0,1	0,03	0,01	0,09
Manufacturing Industry & Construction	2,82	0,1	1,24	0	0,47	0,48	0,5	2,53	0,03	0	0,02	0,02
Aviation	0,48	0,03	0,03	NE	0	0	0	0,29	NE	NE	NE	NE
Road Transport	5,86	2,18	0,01	0,18	0,33	0,45	0,58	8,08	0,24	0	0	0,22
Navigation	0,2	0,01	0,21	NE	0,03	0,03	0,03	NE	NE	NE	NE	NE
Residential (Central Heating)	0,27	0,05	0,1	0	0,06	0,06	0,06	0,51	0	0	0	0,08
Agriculture (Combustion and Mobile)	0,45	0,03	0,05	0	0,02	0,02	0,02	0,11	0	0	0	0
Distribution /Storage of Oil Products	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Cement Production	IE	IE	IE	NE	0,06	0,09	0,09	NE	NE	NE	NE	NE
Lime Production	IE	IE	IE	NA	0	0,02	0,05	NE	NE	NE	NE	NA
Asphalt	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
Quarries	NA	NA	NA	NA	0,03	0,2	0,39	NA	NA	NA	NA	NA
Production of Food & Drink	NA	0,17	NA	NA	NE	NE	NE	NA	NA	NA	NA	NA
Paint Application	NA	2,17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dry Cleaning	NA	0,03	NA	NA	NE	NE	NE	NA	NA	NA	NA	NA
Solvents	0	0,01	0	0	0,03	0,04	0,04	0,06	0,01	0	0	0
Manure Management	0,67	1,29	0	6,26	0,06	0,3	0,51	0	0	0	0	0
Fertilizers	0,23	NA	NA	0,53	NA	NA	NA	NA	NA	NA	NA	NA
Cremation Pokalamis	0	0	0	0	0,01	0,01	0,01	0,1	0	0	0	0
Waste Management	0	0,32	0	0,01	0,03	0,03	0,03	0,04	0	0	0	0,27
Total Emissions	14,61	6,48	17,01	7,01	1,34	2,04	2,71	12,03	0,39	0,04	0,03	0,67

Note: Gg=kt (thousands of tones) and Mg=t (tones)
NA: Not Applicable, NE: Not Estimated, NO: Not Occurring, IE: Included Elsewhere

Figure 3.13: Percentage of Total Emissions of Nitrogen Oxide by activity in 2018

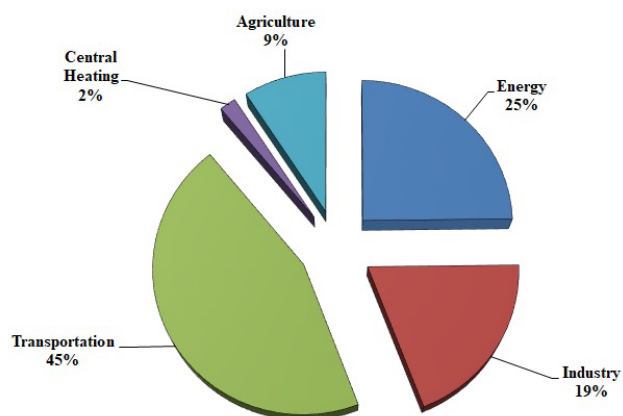


Figure 3.14: Percentage of Total Emissions of Carbon Monoxide by activity in 2018

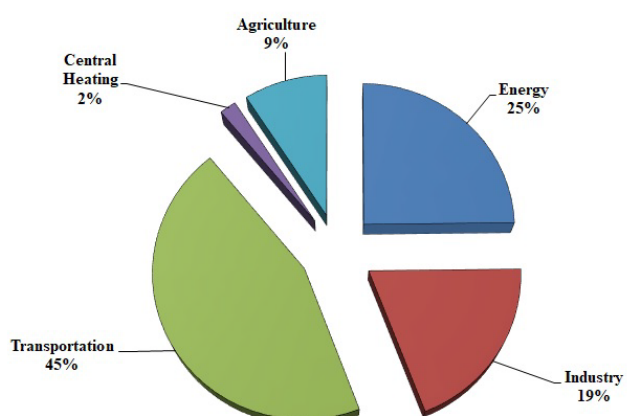


Figure 3.15: Percentage of Total Emissions of Volatile Organic Compounds by activity in 2018

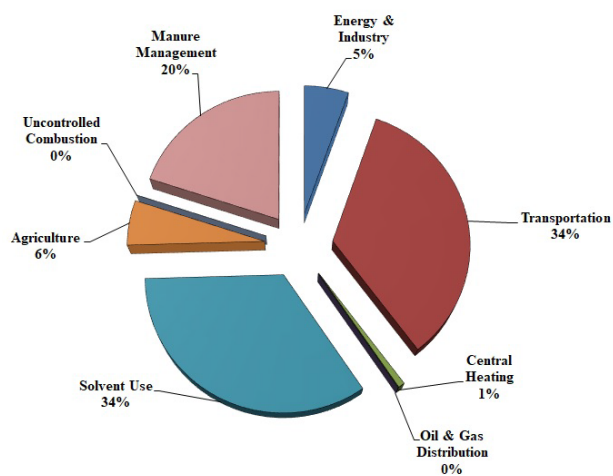


Figure 3.16: Percentage of Total Emissions of Sulphur Dioxide by activity in 2018

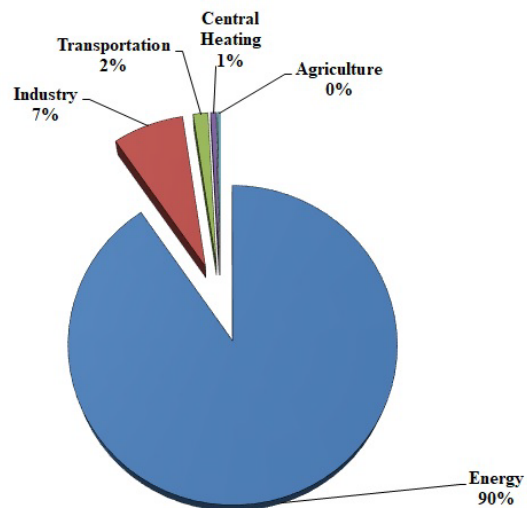


Figure 3.17: Percentage of Total Emissions of Ammonia by activity in 2018

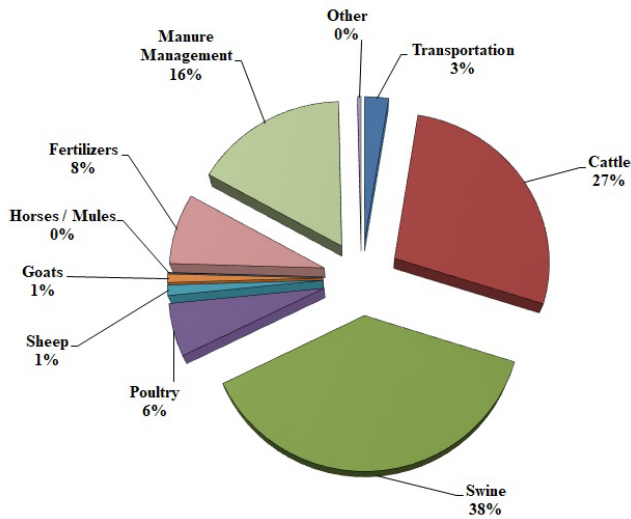


Figure 3.18: Percentage of Total Emissions of Particulate Dust (TSP) by activity in 2018

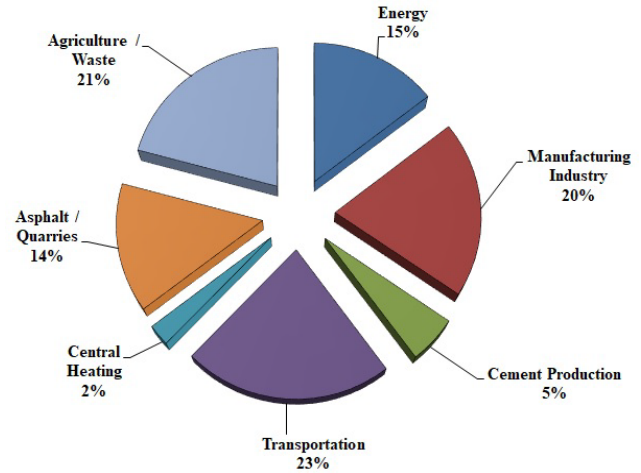


Figure 3.19: Percentage of Total Emissions of Particulate Matter (PM_{2.5}) by activity in 2018

