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2. The subject of Environmental Impact Assessment

The current Study of Environmental Impact regards the Facility of Symetal S.A. Symetal S.A produces and sales aluminium foil products as aluminium paper, wrapping paper for chocolates and generally aluminium foil products for flexible packing. The facility of Symetal S.A (Department of Inofita Viotia) emanated from the contribution of foil sector from the Elval S.A, its Head Company. The aim of study is the environmental license of Symetal Facility, in the site of Inofyta. Symetal S.A has asked for its Environmental license, including the present facility as well as its future expansions. The submitted Environmental Study to the responsible authority has been registered with the number **155751/21-2-2008**.

The study comply with the requirements of the following Greek Legislations:

1. Greek National Law 3010/2002 (Conformation of 1650/1986 with Dir. 97/11 & 96/61 EC)
2. Joint Ministerial Decision 15393/2332/2002 (Facilities classification)
3. Joint Ministerial Decision 11014/703/Φ104/2003 (Environmental Impact Assessment procedures according to Dir. 97/11 EC)
4. Implementation Guidance (122859/2-2-2004) for Joint Ministerial Decision 11014/703/Φ104/2003

The contents of the present study are the following:

- Chapter 3 reports to the geographic place, the extent and the administrative subordination of Symetal Facility.
- Chapter 4 reports to the existing situation of environment in the location area of facility. Furthermore reports to the natural and anthropogenic environment, to the geology, meteorology and finally to the hydrology of location.
- Chapter 5 describe the area of Factory emphasizing to the building facilities and mechanical equipments while becomes also analytic description of factory operation. Considerable importance is given in the description of productive activities, to the consumption of first and auxiliary raw materials, in the production of products and in the environmental impacts that are caused by the factory operation. The environmental impacts are examined in relation to the emissions of harmful gases, the production of liquid and solid wastes and the sound harmful effects.
- Chapter 6 reports analytically to techniques and technologies that are applied in the facility in order to reject/reduce the environmental impacts and/or re-use/recycle the produced wastes so as to minimize harmful effects that are caused in the environment.
- Chapter 7 reports to the modifications which are going to be processed by the company in the near future.
- Chapter 8 reports to the Environmental Effects from the proposed modifications in the extension area of Facility.
- Chapter 9 reports the conclusions of the Environmental Study.

Finally, in the annexes of current study are included analytically maps of Inofyta area as well as all the formal documents of environmental licenses that facility has acquired. In annex I is included the map of the extension area (minimized scale 1 : 50.000) and also the map of the current area (minimized scale 1 : 5.000) of Symetal facility.

8. Environmental Impact evaluation for the proposed project – Abatement measures

8.1 Introduction

The proposed amendments are about the installation of new production equipment to SYMETAL's existing facility. The proposed installations are within the scope of the European environmental protection policy (EU Dir 96/61/EC) concerning best available techniques. The proposed installations will contribute to the increase of environmental performance of the facility by reducing the specific energy consumption and waste production per product tonnage.

8.2 Environmental Impacts and abatement measures

8.2.1 Atmospheric emissions

As already mentioned there will be improvement in air emissions resulting from the proposed installations. As mentioned in Ch. 7.6.1, the air emissions generated during rolling of the aluminium are expected to decrease significantly provided that both the existing and the proposed rolling mills will be connected to the system. The expected rolling oil recovery capacity of the new system is approximately 95% so therefore the air emissions are expected to be about 90% less than before the installation of the AIR PURE system. Moreover, the specific consumption of rolling oil per ton aluminium produced will decrease as rolling oil will be recovered from the vents of the mill and recycled in the production process.

Regarding the natural gas consumption in the two annealing furnaces, a theoretical calculation of the atmospheric emissions is provided in the following Table, according to CORINAIR coefficients methodology.

Atmospheric emissions

Pollutant	Emissions (tn/yr)
Carbon monoxide (CO)	0,06
Carbon Dioxide (CO ₂)	355
Nitrogen Oxides (NO _x)	0,39
Particulate Matter (PM ₁₀)	0,01

8.2.2 Water consumption

Water is obtained from Athens Water Supply and Sewerage Company (EYDAP) through ELVAL's facilities. Therefore the water consumption does not affect the region's underground aquifer. The estimated increase of water consumption will correspond to an increase to the cooling water discharge, however without any pollution load. The water discharges are driven through closed pipeline to the authorised recipient, through ELVAL's facilities. The water discharge quality is continuously monitored in order to comply with the discharge limits, as already mentioned in previous chapters.

8.2.3 Soil, topography and landscape

The proposed installations will take place inside SYMETAL's facilities area, and their implementation will not have a negative impact on topography and landscape of the wider region.

8.2.4 Flora - Fauna

There will be no negative impacts on flora and fauna in the area from the proposed installations.

8.2.5 Noise

There will be no significant increase on noise and vibration levels.

9. Conclusions

Symetal S.A is the company that has the completely responsibility for the growth of market of aluminium foil sector. The continuously altered market of foil sector, because of the dynamic import in the market of Chinese Industry, imposed the found of Symetal S.A.

According to this strategic decision is achieved the survival and the further growth of Greek industrial foil sector and also many new job positions are created.

Symetal S.A, produces a important variety of high quality products which are exported in more than 70 countries of world. This exporting activity consist approximately the 80% of his production while the rest 20% is sold inside the Greek borders. With this way Symetal S.A contributes considerably in the Greek economy improvement and also in the reduction of unemployment percentage.

The position of Symetal S.A in market and generally in Greek society is characterized by his commitment for high quality products combined with Environmental protection and health safety of his employees.

The technologies and techniques that are followed from Symetal S.A are comply with the Optimal Available Techniques.

Symetal has studied and investigated, in quality and quantity, all type wastes derived from his production processes. The management of its stream wastes is comply with European and Greek Legislation including a) Minimize of wastes production b) Re -use of wastes c) Recycle – Recovery process d) Exploitation e) Safe disposal .

The management of each type of waste, solid or liquid, become safely for the environment and according to the current Greek Regulation. So for this reason, Symetal S.A has install and operate with all necessary anti-polluted technologies and applies modern production techniques minimizing all the environmental effects of his production processes.

The proposed expansions and modifications of Symetal Facility are necessary to become for two main reasons : Firstly , for the improvement of products quality and secondly for assure the minimum Environmental impact from its operation .