


**ANNUAL REPORT FOR THE IMPLEMENTATION  
OF THE ENVIRONMENTAL TERMS DURING OPERATION AND MAINTENANCE OF PATHE  
MOTORWAY, SECTION “SKARFEIA – RACHES” AND  
CENTRAL GREECE MOTORWAY (E65), SECTION “XYNIADA – TRIKALA”**

**PROJECT: “DESIGN - CONSTRUCTION - FINANCING - OPERATION - MAINTENANCE AND  
EXPLOITATION OF THE PROJECT  
“CENTRAL GREECE MOTORWAY (E65)”**



Date	31.01.2022
Created by:	Concessionaire 

**REFERENCE PERIOD  
YEAR 2021**

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## 1. INTRODUCTION

This Environmental Management Report outlines the company's, KENTRIKI ODOS S.A., Environmental Management Processes during the operation and maintenance of the Concession Project for the year 2021 (01.01.2021 to 31.12.2021). This Report also includes the reference data on compliance with the environmental terms during the 2nd semester of 2021.



The company ODOS KENTRIKIS ELLADOS S.A. has implemented a program to monitor the environmental impact, in accordance with the Concession Contract and the approved Environmental Terms (E.T.) of the project. The implementation of the program is done in such a way that it has multiple beneficial nature to the man-made and the natural environment on the areas of influence, as well as to serve in the best possible way the users at the section **Skarfeia – Raches (57 km) of the PATHE – E65 Motorway** and the section **Xyniada – Trikala (79.5 km) of the E65 Motorway**.



The monitoring of environmental and social parameters is done in such a way that enables early recognition of any harmful tendencies and permits the reduction and/or elimination of the negative effects, by intervening with suitable protective measures. Additionally, the constant monitoring enables the effectiveness assessment of the proposed protection measures, so that



the protection of the affected by the operation and the maintenance of the motorway environmental parameters is ensured over time. The collection and recording of qualitative and quantitative evidence during constant E.T. monitoring also aims to promote further awareness on the impacts that the construction of such projects may have on a

similar Environment.

At the PATHE motorway, section “Skarfeia – Raches”, and at the E65 motorway, section “Xyniada – Trikala”, a comprehensive environmental monitoring program is implemented, through which all Environmental Terms are met, as detailed below.

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## 2. PROJECT DESCRIPTION

### 2.1 PATHE E65 Motorway

**State :** Hellenic Republic

**Concessionaire :** ODOS KENTRIKIS ELLADAS S.A.

**Motorway :** PATHE

**Section :** Skarfeia – Raches

#### 1. 12 (twelve) Junctions

The PATHE motorway at the section Skarfeia

– Raches includes:

- Skarfeia semi-I/C near K.P. 185+500
- Molos semi-I/C near K.P. 190+500
- Thermopyles semi-I/C near K.P. 198+500
- Mpralos (Thermopiles) I/C near K.P. 203+000
- E65 semi-I/C near K.P. 207+000
- Anthili semi-I/C near 210+000
- Roditsa I/C near K.P. 212+500
- Ag. Paraskevi I/C near K.P. 217+500
- Ag. Marina I/C near K.P. 223+500
- Stylida – Karavomylos I/C near K.P. 232+000
- Karavomylos – Achinos I/C near K.P. 237+000
- Raches semi-I/C near K.P. 241+000



#### 2. 2 (two) Frontal & 8 (eight) Lateral Toll Stations

##### i. Frontal

- Agia Triada near K.P. 195+000
- Mavromantila near K.P. 220+000

##### ii. Lateral

- 2 on Molos I/C near K.P. 190+500
- 2 on Thermopyles I/C near K.P. 203+000
- 2 on Ag. Marina I/C on K.P. 223+500
- 2 on Karavomylos I/C near K.P. 232+000



#### 3. 6 (six) Temporary Parking Areas

- Near K.P. 188+000 to Lamia

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- Near K.P. 188+000 to Athens
- Near K.P. 221+500 to Lamia
- Near K.P. 221+700 to Athens
- Near K.P. 239+250 to Lamia
- Near K.P. 239+250 to Athens

**4. 6 (six) Tunnels**

- Near K.P. 225+800 to K.P. 226+500, Bilaterally
- Near K.P. 227+500 to K.P. 228+500 Bilaterally
- Near K.P. 228+500 to K.P. 229+000 (to Lamia)
- Near K.P. 228+700 to K.P. 229+000 (to Thessaloniki)

**5. 3 (three) Winter Maintenance Stations (SCS)**

- Agia Triada SCS near K.P. 195+000
- Agia Marina SCS near K.P. 223+500
- Stylida SCS near K.P. 232+000

The exact locations of CHs are depicted in Annex I.

The sections of the Concession Contract Project are divided in five (5) Geographical Units (GU).

S/N	SECTION	Km
1	Skarfeia – Thermopyles	17.32
2	Thermopyles – Spercheios (except the bridge under construction by ERGOSE)	8.50
3	Spercheios - Ag. Paraskevi I/C	3.50
4	Ag. Paraskevi I/C – Ag. Marina I/C	8.50
5	Ag. Marina – Raches	19.20



## 2.2 Central Greece Motorway (E65)

The Central Greece Motorway, Xyniada – Trikala Section includes:

### 1. 8 Junctions

- Xyniada I/C near K.P. 32+000
- Smokovo semi-I/C near K.P. 48+500
- Anavra I/C near K.P. 61+000
- Sofades I/C near K.P. 72+500
- Karditsa I/C near K.P. 81+000
- Proastio I/C near K.P. 97+500
- Loggos semi-I/C near K.P. 106+500
- Trikala I/C near K.P. 111+500



### 2. 2 Frontal and 3 Lateral Toll Stations

#### i. Frontal (2):

- Sofades near K.P. 66+000
- Trikala near K.P. 105+500

#### ii. Lateral (3):

- 2 on Anavra I/C near K.P. 61+000
- 2 on Proastio I/C near K.P. 97+500
- 2 on Trikala I/C near K.P. 111+500 (not in operation)



### 3. 2 Motorists Service Stations (MSS)

- Xyniada MSS near K.P. 43+500 bilaterally (not constructed)
- Sofades MSS near K.P. 70+500 bilaterally

### 4. 8 Parking Areas

- Near K.P. 105+000 to Lamia
- Near K.P. 102+000 to Egnatia
- Near K.P. 86+500 to Lamia
- Near K.P. 86+500 to Egnatia
- Near K.P. 52+000 to Lamia
- Near K.P. 52+000 to Egnatia



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- Near K.P. 35+000 to Lamia
- Near K.P. 35+000 to Egnatia

**5. One Maintenance Control Center (MCC)**

- Sofades MCC near K.P. 70+500



**6. 3 Winter Maintenance Stations**

- Xyniada SCS (same position as MCC/MSS near K.P. 43+500) (not constructed)
- Sofades SCS (same position as MCC/MSS) near K.P. 70+500
- Trikala SCS (near K.P. 105+500) (not constructed)



**7. 2 Tunnels**

- Tunnel T3A of 113 m length near K.P. 45+600
- Tunnel T3 of 387 m length near K.P. 46+000

**8. 9 Bridges > 50 m**

- Bridge of approx. 70 m length near K.P. 48+500
- Bridge of approx. 160 m length near K.P. 49+000
- Bridge of approx. 295 m length near K.P. 51+000
- Bridge of approx. 150 m length near K.P. 54+000
- Bridge of approx. 150 m length near K.P. 55+500
- Bridge of approx. 51.5 m length near K.P. 70+500
- Bridge of approx. 92 m length near K.P. 90+000 (Kalentzis River)
- Bridge of approx. 587 m length near K.P. 103+500 (Pineios River)
- Bridge of approx. 74 m length near K.P. 110+500 (Trikala – Larisa highway)



The exact locations of K.Ps are depicted in Annex I.

### 3. SUPERVISORY SERVICES (PROJECT OWNERS)

The Supervisory Services of the Concession Project are:

- **Special Service for Public Works / Construction of Transportation Projects with Concession Contract** (EYDE/KSESP), 5 Karystou St., 115 23, Athens, Supervisor Mr. Z. Karvounis.
- **Directorate D17, Directorate of Infrastructure Operation, Maintenance & Exploitation with Concession Contract**, 70 Panormou St., 115 23, Athens, Deputy Supervisor Mrs. S. Chouliara.

**Concessionaire:** ODOS KENTRIKIS ELLADAS S.A.

**Motorway:** PATHE (Skarfeia – Raches & E65 (Xyniada – Trikala))

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#### 4. ENVIRONMENTAL AUTHORIZATION

##### 4.1 JMD ETA and their validity – Present Situation

##### 4.1.1 PATHE: Skarfeia – Raches Section

S/N	Section	E.T. Validity	E.T. Decisions issued
1	Skarfeia – Lamia <b>Subsection Skarfeia – Thermopyles</b>	The section ETAD is valid until 27.12.2033 (Decision YPEN/GDPP/DIPA with prot. no. YPEN/DIPA 96975/4083/27.12.2018)	<b>MAIN PROJECT</b> <ul style="list-style-type: none"> <li>• JMD No 146113/12.07.2005, E.T. Approval</li> <li>• JMD No 129696/06.06.2007. E.T. Amendment</li> <li>• GDPP/DIPA 96975/4083/27.12.2018. E.T. amendment and renewal</li> <li>• GDPP/DIPA 85272/3419/27.11.2018. E.T. amendment in respect of the construction and the operation of 6 Parking Areas</li> <li>• GDPP/DIPA 96975/4083/27.12.2018. Amendment and renewal of E.T.</li> <li>• GDPP/DIPA 3048/162/05.08.2020. Compliance with JMD 1915/2018 requirements (B' 304).</li> </ul> <b>ANCILLARY WORKS</b> EYPE 122881/08.03.2010, Environmental authorization for Ag. Triada toll station and Molos I/C.
2	<b>Thermopyles – Nea Koiti Spercheiou</b>	The section ETAD is valid until 05.03.2030 (Decision YPEN/GDPP/DIPA with prot. No. oik. 146836/05.03.2015)	<b>MAIN PROJECT</b> <ul style="list-style-type: none"> <li>• JMD No 131550/04.03.2003, E.T. Approval</li> <li>• GDPP/DIPA 146836/05.03.2015 Amendment and renewal of E.T.</li> <li>• GDPP/DIPA 3048/162/05.08.2020. Compliance with JMD 1915/2018 requirements (B' 304).</li> </ul> <b>ANCILLARY WORKS</b> EYPE 122881/08.03.2010, Environmental authorization for Thermopyles I/C toll station and Molos I/C.
3	<b>Nea Koiti Spercheiou - Roditsa I/C</b>	The section ETAD is valid until 14.09.2033	<b>MAIN PROJECT</b> <ul style="list-style-type: none"> <li>• JMD No 146109/30.09.2005 E.T. Approval</li> </ul>

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		(Decision YPEN/GDPP/DIPA with prot. no. YPEN/DIPA/60908/1786/14.09.2018)	<ul style="list-style-type: none"> <li>• GDPP/DIPA 145496/21.01.2015. E.T. Amendment</li> <li>• GDPP/DIPA 60908/1786/14.09.2018. E.T. Renewal</li> <li>• GDPP/DIPA 3048/162/05.08.2020. Compliance with JMD 1915/2018 requirements (B' 304).</li> </ul>
4	Lamia –Raches <b>Subsection Roditsa I/C – Ag. Marina I/C</b>	<p>The section ETAD is valid until 15.03.2031</p> <p>(Decision GDPP/DIPA with prot. no. oik 13590/15.03.2016)</p>	<p><b>MAIN PROJECT</b></p> <ul style="list-style-type: none"> <li>• JMD 130665/02.05.2003 E.T. Approval</li> <li>• JMD 195214/11.01.2011 amendment of the Decision No 130665/2.5.2003 E.T. Approval</li> <li>• GDPP/DIPA 13590/15.03.2016 Renewal and Amendment of E.T.</li> <li>• GDPP/DIPA 85272/3419/27.11.2018: E.T. amendment in respect of the construction and the operation of 6 Parking Areas</li> <li>• GDPP/DIPA 3048/162/05.08.2020. Compliance with JMD 1915/2018 requirements (B' 304).</li> </ul>
5	<b>Stylida – Karavomylos Total Bypass</b>	<p>The section ETAD is valid until 23.05.2029.</p> <p>(YPEKA/GDPP/EYPE Ministerial Decision with prot.no. 172866/23.05.2014)</p>	<p><b>MAIN PROJECT</b></p> <ul style="list-style-type: none"> <li>• JMD 100198/30.05.2006 E.T. Approval</li> <li>• EYPE 172866/23.05.2014 Amendment and renewal of E.T..</li> <li>• GDPP/DIPA 12757/10.03.2016 Amendment of E.T.</li> <li>• GDPP/DIPA 85272/3419/27.11.2018: E.T. amendment in respect of the construction and the operation of 6 Parking Areas</li> <li>• GDPP/DIPA 3048/162/05.08.2020. Compliance with JMD 1915/2018 requirements (B' 304).</li> </ul> <p><b>ANCILLARY WORKS</b></p> <ul style="list-style-type: none"> <li>• EYPE 121667/08.12.2020 Environmental licensing of the toll stations at the locations of Ag. Marina – Stylida I/C and Stylida – Karavomylos I/C.</li> </ul>

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			<ul style="list-style-type: none"> <li>GDPP/DIPA 77442/4790/07.08.2020, Technical Environmental Study (TE.PE.M.) of the winter maintenance station at Agia Marina I/C (CH. 223+320).</li> </ul>
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#### 4.1.2 E65: Xyniada – Trikala Section

The per-section validity period of the approved environmental terms for the Central Greece Motorway (E65) as well as the authorizations issued are presented in the following table:

S/N	Section	E.T. Validity	E.T. Decisions issued
1	Lamia – Makrychori	The section ETAD is valid until 16.12.2030. (Decision of YPEN/GDPP/DIPA with prot. no 151991/16.12.2015).	<b>MAIN PROJECT</b> <ul style="list-style-type: none"> <li>JMD No JMD ETA 144504/18.11.2005, E.T. Approval</li> <li>Decision of Director-General for Environment of YPEKA No 167266/01.04.2013. Modification of the section K.P. 0+000 - K.P. 14+500 (except the Lamia I/C).</li> <li>Ministerial Decision 171820/04.04.2014. ET Amendment as regards the exploitation of quarries.</li> <li>Ministerial Decision 173471/27.06.2014. Modification of the sections K.P. 31+212 – K.P. 85+000 (except the section K.P. 47+313 – K.P. 51+483).</li> <li>Ministerial Decision 147997/14.04.2015. Modification of the section K.P. 47+313 – K.P. 51+483.</li> <li>Decision of Director-General for Environment of YPEN No 151991/16.12.2015. Extension of validity period.</li> <li>Ministerial Decision 24355/13.05.2016. Environmental authorization for Lateral toll stations on Anavra I/C and Frontal toll stations on Sofades.</li> </ul>

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			<ul style="list-style-type: none"> <li>• Ministerial Decision 61420/16.12.2016. Modification on the section K.P. 14+500 – K.P. 31+212 and Lamia I/C (K.P. 5+500).</li> <li>• Ministerial Decision 17095/04.04.2017. Amendment as regards the execution of the water exploitation projects (drilling for water supplies) at Fthiotida and Karditsa regional units for the operational needs of the motorway.</li> <li>• Ministerial Decision 21166/22.05.2017. Amendment as regards the integration of the water exploitation project development authorization at Fthiotida and Karditsa regional units for the operational needs of the motorway.</li> <li>• Decision of Director-General for the environmental policy of the YPEN No 22199/23-11- 2017. Environmental authorization Xyniada MSS and Sofades MSS.</li> <li>• Decision of Director-General Decision of Director-General for the environmental policy of the YPEN No 52131/22.12.2017 Update of the final design of the section K.P. 31+212 – K.P. 85+000</li> <li>• YPEN/DIPA/67165/2283-07-2019. ET amendment regarding the environmental licensing of the borrow pit at “Kalamaki” location of Agia Paraskevi, Municipality of Lamia.</li> <li>• Decision of Director-General for the environmental policy of the YPEN No 27870/1460/31.03.2020 ET amendment regarding the “Samolakas” worksite</li> <li>• Decision of Director-General for the environmental policy of the YPEN No 19921/991/18.09.2020 ET amendment regarding the update of the final design at subsection KP. 0+000 to KP. 32+300</li> </ul> <p><b>ANCILLARY WORKS</b></p> <ul style="list-style-type: none"> <li>• Decision of Director-General for the environmental policy of the YPEN No 5396/07-02-2017: Approval of Technical and Environmental Study (TEPEM) for</li> </ul>
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			<p>the installation and the operation of a Traffic Management Center in the Sofades MCC near K.P. 69+700 of E65</p> <ul style="list-style-type: none"> <li>Decision of Director-General for the environmental policy of the YΠEN No 77444/4791/07.08.2020: Approval of TEPEM for the Tunnel Control Centre and the Police Department of Lianokladi</li> </ul>
2	Improvement of the connecting road of Lamia – Karditsa NR with Central Greece (E65) at <b>Xyniada I/C location</b>	The ETAD is valid until 01/12/2030 (decision Secr.-Gen. of Decentralized Administration with prot. no. 4644/212888/01-12-2015)	<ul style="list-style-type: none"> <li>Secr.-Gen. of Decentralized Administration with prot. no. 4644/212888/01-12-2015 ET approval</li> </ul>
3	<b>Makrychori – Kalampaka</b>	<p>The section ETAD is valid until 16-12-2030.</p> <p>(Decision of Director-General for Environment of YPEN/GDPP/DIPA with prot. No 151991/16.12.2015.)</p>	<ul style="list-style-type: none"> <li>JMD ETA 145521/18.11.2005. E.T. Approval</li> <li>Decision of Director-General for Environment of YPEKA No 203583/04.12.2012. As regards the construction of the C-C on K.P. 137+000.</li> <li>Decision of Director-General for Environment of YPEKA No 172041/26.11.2013. Modification of the section K.P. 85+800 - K.P. 137+550 (apart from sections K.P. 115+100 - K.P. 118+043 and K.P. 131+475 - K.P. 132+420).</li> <li>Decision of Director-General for Environment of YΠEN/ΔΙΠΑ No 151991/16.12.2015. Extension of validity period.</li> <li>Ministerial Decision 17095/04.04.2017. Amendment as regards the execution of water utilization projects (water wells) in the Prefectures of Fthiotida and Karditsa for the needs of the operation of the motorway.</li> <li>Ministerial Decision 21166/22.05.2017. Amendment as regards the execution of projects integration of the permit for the execution of water utilization projects in the Prefectures of Fthiotida and Karditsa for the needs of the operation of the motorway</li> </ul>

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			<ul style="list-style-type: none"> <li>• Decision of Director-General for the environmental policy No 52133/22.12.2017. Update of the final design.</li> <li>• GDPP/DIPA 95851/4000/21.12.2018. Amendment of E.T. and authorization of Trikala MSS</li> </ul>
4	<b>Kalampaka – Egnatia</b>	<p>The section ETAD is valid until 21-05-2028.</p> <p>(Decision YPEN/GDPP with prot.no. oik 9728/21.05.2018)</p>	<ul style="list-style-type: none"> <li>• JMD 147014/18.11.2005. E.T. Approval</li> <li>• JMD 151991/16-12-2015</li> <li>• GDPP/DIPA No 9728/21.05.2018 E.T. Approval due to amended design</li> </ul>



## 4.2 Submissions

### A' semester 2021

For **PATHE Motorway, Skarfeia – Raches Section** during the A' semester of 2021, the Concessionaire did not submit any environmental studies referring to the Operation & Maintenance of the Concession Project.

For **E65 Motorway**, during the reference period (semester A' 2021), the Concessionaire submitted the following environmental study:

- Environmental Impact Study for the Amendment of the Approved Environmental Terms (JMD 144504/18.11.2005) of the Road Axle for E65 Central Greece Makrychori – Lamia section, Flood-protection works in the subsection of Xyniada - Anavra (KP. 32+000 - 61+000) (Concessionaire to EYDE/KSESP) with prot. no. 22495/27.04.2022, and EYDE/KSESP to ΓΔΠΠ/ΔΙΠΑ with prot. no. Φ9.18/120905/11.05.2021)

### B' semester 2021

For **PATHE Motorway, Skarfeia – Raches Section** and **E65 Motorway**, during the B' semester 2021, the Concessionaire did not submit any environmental studies referring to the Operation and Maintenance of the Concession Project.

For **E65 Motorway**, during the reference period of semester B' 2021, the Concessionaire submitted the following environmental studies:

- Documentation amending ETA as regards the additional works under article 18.6 of the concession agreement for the urgent flood protection of the areas of Central Greece motorway (E65) at the Anavra - Karditsa Section (subsection KP. 61+056 - KP. 83+960) [Concessionaire to EYDE EYDE/KSESP with prot. no. 22861/22-12-2021 and EYDE/KSESP in GDPP/DIPA with prot. no. Φ9.18/377227/28.12.2021].

## 4.3 Outstanding issues

### 4.3.1 PATHE: Skarfeia – Raches Section

No pending environmental licences.

### 4.3.2 E65: Xyniada – Trikala Section

S/N	Section	Outstanding issues	Submissions	Observations
1	E-65 – Section S1: Lamia – Makrichori Section,	Submission of Environmental Impact Study for the amendment of JMD	• Kentriki Odos S.A. submission to EYDE/KSESP with prot. no. 20801/29- 10-2018	<b>Approval of DIPA is pending.</b>

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	<b>subsection KP. 33+000 – KP. 61+150</b>	EPO 144504/18-11-2005, as amended and applicable to the required flood protection works along the E-65	<ul style="list-style-type: none"> <li>• EYDE/KSESP submission to ΓΔΠΠ/ΔΙΠΑ with prot. no. Φ1/7985/31-10-2018</li> <li>• Kentriki Odos SA new submission to EYDE/KSESP with prot. no. 22495/27-04-2021.</li> <li>• EYDE/KSESP submission to GDPP/DIPA with prot. no. Φ9.18/120905/11.05.2021.</li> </ul>	
<b>2</b>	<b>E65 – Section S2: Anavra – Karditsa Section (subsection KP. 61+056 – KP. 83+960)</b>	ETA Amendment File regarding the additional works under article 18.6 of the concession agreement for the urgent flood protection of the areas of E65	<ul style="list-style-type: none"> <li>• Kentriki Odos S.A. submission to EYDE/KSESP with prot.no. 22861/22-12-2021.</li> <li>• EYDE/KSESP submission to GDPP/DIPA with prot. no. Φ9.18/377227/28.12.2021.</li> </ul>	<b>Approval of DIPA is pending.</b>
<b>3</b>	<b>E65 – Section S2: Makrychori - Kalampaka, subsection KP. 88+237 – KP. 89+919</b>	Submission of Environmental Impact Study for the amendment of the JMD EPO 145521/18-11-2005, as amended and in force regarding the required anti-flood protection projects along Central Greece Motorway	<ul style="list-style-type: none"> <li>• Kentriki Odos S.A. submission to Directorate D17 with prot. no. 208000/29.10.2018</li> <li>• EYDE/KSESP submission to ΓΔΠΠ/ΔΙΠΑ with prot. no. Φ1/7986/31-10-2018</li> </ul>	<b>Approval of DIPA is pending.</b>
<b>4</b>	<b>E65 – Section S2: Makrychori – Kalampaka Section, subsection KP. 85+800 – KP. 137+553</b>	Documentation File for the adjustment to the requirements of the JMD 1915/2018 (OGG 3048/2018) of E65 motorway, Makrychori – Kalampaka section	<ul style="list-style-type: none"> <li>• Kentriki Odos S.A. submission to the D17 Directorate with prot. no. 21470/20.11.2019</li> <li>• D17 submission to G.D.P.P./DIPA with prot. no. ΛΕ/ΚΕ/00/08/10/13316/13-01-2020</li> </ul>	<b>Approval of DIPA is pending.</b>

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## 5. SENSITIVE AREAS OF THE PROJECT

The following table presents the natural areas under protection that the motorway passes through or is adjacent to.

S/N:	Section	Natura 2000 Area
1	Skarfeia – Thermopyles	<ul style="list-style-type: none"> <li>Spercheios valley and estuary – Maliakos Bay (GR2440002)</li> </ul>
2	Thermopyles – Spercheios (except the bridge under construction by ERGOSE)	<ul style="list-style-type: none"> <li>Spercheios valley and estuary – Maliakos Bay (GR2440002)</li> <li>Lower Course and estuary of Spercheios River (GR2440005)</li> </ul>
3	Spercheios - Ag. Paraskevi I/C	<ul style="list-style-type: none"> <li>Spercheios valley and estuary – Maliakos Bay (GR2440002)</li> </ul>
4	Ag. Paraskevi I/C – Ag. Marina I/C	<ul style="list-style-type: none"> <li>Spercheios valley and estuary – Maliakos Bay (GR2440002)</li> <li>The karst springs of Ag. Paraskevi are located 250m away from the project, which are the main habitat of Pungitius Hellenicus, the rare and protected fish P.D.67/81.</li> <li>Sensitive environmental element of the area is the stork colony in the area between the settlements of Ag. Paraskevi and Megali Vrysi.</li> </ul>



## 6. ATMOSPHERIC POLLUTION

By the approved environmental terms, no program for air quality monitoring is provided for at the section of the PATHE (Skarfeia – Raches).

According to the environmental terms and the relevant approvals at the section Makrychori – Kalampaka of the E65 Motorway, the Measuring Station for Air Pollution is being installed. The station is being installed at the G.U. of Sofades area at the entrance of the adjacent Motorist Service Station. The station has been put on trial on 15.03.2019.

For the year 2021, a complete air pollution monitoring program was implemented by the above three air pollution stations, which are operating on a 24-hour basis. The air pollution report was filed by the Concessionaire to the competent services (KAPA/ΥΠΕΝ Directorate with prot. no. 11123/197/07.02.2022, ΕΥΔΕ Directorate D17) with receipt prot. no. 32053/07.02.2022). A similar report will also be elaborated and filed for 2022.

To measure the pollutants, the stations have been equipped with approved analyzers in accordance with the National Legislation (Ministerial Decision No 14122/549/Ε.103/2011 (Gov. Gazette 488/Β'/30.3.2011) "Measures to improve the air quality, in accordance with the provisions of Directive 2008/50/EC" of the European Parliament and the Council of the European Union of 21 May 2008 on ambient air quality and cleaner air for Europe. For every 24 hours, the following are recorded at all stations:

1. The PM<sub>10</sub>, PM<sub>2,5</sub>, CO, NO, NO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub>, C<sub>6</sub>H<sub>6</sub> (Benzene) polluting emissions
2. The meteorological conditions of each installation

The pollutants are measured continuously throughout the day. The average primary pollution values are calculated every five minutes in the recording system that is installed at each station and connected to the analyzers. These measurements are transferred to the server of the air pollution measuring system, via the optical fiber network, where they are stored. At the end of each month the measurements are corrected on the network server. The corrections include calibration results and analyzer limit and slip corrections. After corrections, the average hourly, eight-hour, and 24-hour values of pollutants (NO<sub>2</sub>, CO, O<sub>3</sub>, SO<sub>2</sub>, Benzene, suspended particles PM<sub>10</sub> and PM<sub>2,5</sub>) are calculated and stored. For 2021, the measured pollutant records were as follows:

### Suspended Particles PM<sub>10</sub>

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The Limit as of 01/01/2005 for PM<sub>10</sub> particles is 50µg/m<sup>3</sup> on average daily value and should not be exceeded more than 35 times per year. In addition, the average annual value should not exceed 40µg/m<sup>3</sup>.

Number of exceedances of PM<sub>10</sub> daily mean values over 50µg/m<sup>3</sup>

Number of exceedances	Sofades
Average daily value in µg/m <sup>3</sup>	9

- **The average daily value (50µg/m<sup>3</sup>) was not exceeded at any station >35 times per year.**

The average annual price for 2021 was:

Average annual value in µg/m <sup>3</sup>	Sofades
	17,84

- **The average annual value (40µg/m<sup>3</sup>) was not exceeded.**

#### **Suspended Particles PM<sub>2.5</sub>**

For suspended particles PM<sub>2.5</sub>, the limit of the average annual value as of 01/01/2015 is 25 µg/m<sup>3</sup>.

The average annual value for 2021 was:

Average annual value in µg/m <sup>3</sup>	Sofades
	11,50

- **The average annual value (25µg/m<sup>3</sup>) was not exceeded.**

#### **NO<sub>2</sub>**

The Limit as of 01/01/2010 is 200µg/m<sup>3</sup> on average hourly value and should not be exceeded more than 18 times per year. In addition, the average annual value should not exceed 40µg/m<sup>3</sup>.

Number of exceedances of average hourly value of over 200 µg/m<sup>3</sup>

Number of exceedances of average hourly value in µg/m <sup>3</sup>	Sofades
	0

- **The average hourly value (200 µg/m<sup>3</sup>) was not exceeded > 18 times per year**

The average annual value for 2021 was:

Average annual value in µg/m <sup>3</sup>	Sofades
	4,83

- **The average annual value (40µg/m<sup>3</sup>) was not exceeded.**

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### CO

The Limit as of 01/01/2005 is 10 mg/m<sup>3</sup> (maximum daily eight-hour value).

Number of exceedances of measurements of over 10 mg/m<sup>3</sup>

Number of exceedances of maximum daily eight-hour value in mg/m <sup>3</sup>	Sofades
	0

- **The maximum daily eight-hour value (10 µg/m<sup>3</sup>) was not exceeded.**

The average annual value for 2021 was:

Average annual value in µg/m <sup>3</sup>	Sofades
	0,17

### SO<sub>2</sub>

The Limit as of 01/01/2010 is 350µg/m<sup>3</sup> as the average hourly value and should not be exceeded more than 24 times per year. Also, the average daily value is 125µg/m<sup>3</sup> and should not be exceeded more than 3 times per year.



Number of exceedances of average hourly value of over 350µg/m<sup>3</sup>

Number of exceedances Average hourly value in µg/m <sup>3</sup>	Sofades
	0

- **The average hourly value (350µg/m<sup>3</sup>) was not exceeded > 24 times per year.**

The average annual value for 2021 was:

Average annual value in µg/m <sup>3</sup>	Sofades
	2,1

- **The average daily value (125µg/m<sup>3</sup>) was not exceeded > 24 times per year.**

### Benzene

The limit as of 01/01/2010 is 5µg/m<sup>3</sup> on average annual value.

The average annual value for 2021 was:



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Average annual value in $\mu\text{g}/\text{m}^3$	Sofades
	0,19

- The average annual value ( $5 \mu\text{g}/\text{m}^3$ ) was not exceeded.

## 7. NOISE AND TRAFFIC VOLUME

The year 2021, the 24-hour traffic noise measurements of the monitoring program obtained are:

- **9 24-hour** traffic noise measurements of the monitoring program at the PATHE Motorway, **Skarfeia – Raches Section**
- **7 24-hour** traffic noise measurements at the E65 Motorway, **Xyniada – Trikala Section**

A total of **16 24-hour** traffic noise measurements were obtained, and the result assessment of the 24-hour traffic noise measurements for 2018 shows that

### A. “Skarfeia – Raches” Section

In this section, in the total of 9 24-hour traffic noise measurements, **there is NO exceedance** and no additional measures are necessary.



### B. “Xyniada – Trikala” Section

In this section, in the total of 7 24-hour traffic noise measurements, **there is NO exceedance** and no additional measures are necessary.

The above measurements were carried out in accordance with the standards and the requirements of existing legislation. For the conduction of the measurements, special scientific equipment was used, which meets all the international standards and guidelines provided by the European and Greek legislation. For the year 2021, the monitoring program O.K.TH. (Road Traffic Noise) that has been submitted to the Directorate of KAPA/YPEN was approved with the YPEN/DKAPA/7836/1516/02-02-2022.

The noise measurement results and records of the road traffic volume, with the position, date, and measurement time interval, the prevailing meteorological conditions, the contact details and name of the measurement manager were recorded in a results sheet. In the case of systematic excess of the current limit for road traffic noise recording, the construction and operation of the project entity shall take the necessary measures to address the excesses.

Before each 24-hour traffic noise measurement, calibration of the instruments was performed

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using specific acoustical calibrator, so that the reliability of the results be monitored during the recordings of the traffic noise environment.

The following are mentioned for all measurement positions: the exact position, the exact time period and day of measurement, while it is noted that the measurement was performed under lack of rain and strong wind conditions, while for conditions of light wind, speed < 3 m/sec, always the use of a special windbreaker cover for the microphone was ensured. No traffic noise recordings were performed if other sources of noise pollution were noted in the immediate environment of the recording position, e.g. residents gatherings, construction of roads, buildings etc., or if the traffic flow was not the usual (e.g. weekends or holidays), or if the traffic fluidity was interrupted or disturbed from any random event, such as accident, etc.



In every 24-hour measurement, the following were recorded:

- the L1, L10, L50, L95, L99 indexes as well as the maximum (Lmax) and minimum values (Lmin);
- the O.K.TH. (Road Traffic Noise) level L10 (18-hour); & the level A-weighted equivalent LAeq (08.00–20.00);
- the level A-weighted equivalent LAeq (24h); and
- the Lden, Lday, Levening & Lnight indexes, as well as the Ld-e of existing legislation in line with JMD with No 211773/2012 (FEK 1367/B/27-4-2012).

For the year 2021, the monitoring program of the Road Traffic Noise has been completed and approved. For the year 2022, a similar program will be implemented, which is expected to be completed within the year (recording of 24-hour measurements in selected positions), when it shall be submitted to the Noise, Vibration and Radiation department of the Directorate of KAPA/YPEN for approval.

Finally, it is noted that daily monitoring of the traffic volume is performed both on the PATHE motorway, “Skarfeia – Raches” Section, and the Central Greece motorway (E65), “Xyniada – Trikala” Section, at the transit level at the toll stations, and monthly reports are submitted. For the year 2021, the Annual Average Daily Traffic (AADT) calculation equals to 9.720 transits for both directions for the PATHE motorway, “Skarfeia – Raches” Section, while as for the Central Greece motorway (E65), “Xyniada – Trikala” Section, the calculation equals to 1.819 transits for both directions.

The tables below show the kilometers of 24-hour measurements in all sections of the motorway. In detail:

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**Section: Skarfeia – Raches**

S/N MEASUREMENT	AREA	DIRECTION	CH.
Θ1	Anthili	To Lamia	209+400
Θ2	Anthili	To Lamia	209+800
Θ3	Roditsa	To Athens	213+900
Θ4	Megali Vryssi	To Athens	215+280
Θ5	Megali Vryssi	To Athens	215+700
Θ6	Stylida	To Raches	227+050
Θ7	Stylida	To Raches	227+200
Θ8	Stylida	To Raches	228+300
Θ9	Stylida	To Athens	232+600

**Section: Xyniada – Trikala**

S/N MEASUREMENT	AREA	DIRECTION	CH.
Θ10	Anavra	To Trikala	57+150
Θ11	Anavra	To Trikala	58+100
Θ12	Anavra	To Lamia	59+300
Θ13	Mavrahades	To Lamia	66+750
Θ14	Ag. Theodoros	To Lamia	80+100
Θ15	Loggos	To Trikala	105+900
Θ16	Loggos	To Trikala	106+000

## 8. WASTE MANAGEMENT

### 8.1 Liquid wastes

A comprehensive Environmental Management Plan has been developed and implemented, which includes the procedure for the management of hazardous liquid waste in accordance with the environmental terms and the existing legislation, while the subcontractors request proper management documentation. A relevant database containing the agreements and waste delivery receipts of authorized mineral oil management companies is established.

As for the hazardous liquid waste resulting from the operation and maintenance works on the motorway, the concession company follows all procedures provided by the current legislation and cooperates with management entities authorized for environmental purposes.

Inspections are performed at the construction and maintenance worksites and the corresponding check list is filled. Based on the checks, in case of failure to comply with the provisions, guidelines (corrective actions) for compliance are provided. The implementation of the corrective actions is checked through new inspections based on the check list.

Furthermore, the concession company submits annual reports for waste producer at the electronic waste registry (EWR) pursuant to Article 42 of Law 4042/2012 (FEK 24/A/13.02.2012), as amended by Article 157, paragraph 1 of Law 4389/2016 (FEK 94/A/27.05.2016) and JMD 1/1 (FEK 1/B'/04.01.2017). For the year 2020, the concession company submitted the relevant report of waste producer to the electronic waste registry (EWR) for every JMD ETA of the motorway separately. For 2021, the procedure shall be completed in accordance with the foreseen deadlines.

### 8.2 Solid wastes

The Concessionaire has contracted with the subcontractor on the cleaning and the collection of solid waste from the motorway, which are then transferred to appropriate licensed premises.

For the hazardous solid waste resulting from the operation and maintenance works on the motorway, the concession company follows all procedures provided by the current legislation and cooperates with management entities authorized for environmental purposes.



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Inspections are performed at the construction and maintenance work sites and the corresponding check list is filled. Based on the checks, in case of failure to comply with the provisions, guidelines (corrective actions) for compliance are provided. The implementation of the corrective actions is checked through new inspections based on the check list.



Furthermore, the concession company submits annual reports for waste producer at the electronic waste registry (EWR) pursuant to Article 42 of Law 4042/2012 (FEK 24/A/13.02.2012), as amended by Article 157, paragraph 1 of Law 4389/2016 (FEK 94/A/27.05.2016) and JMD 1/1 (FEK 1/B'/04.01.2017). For the year 2020, the concession company submitted the relevant report of waste producer to the electronic waste registry (EWR) for every JMD ETA of the motorway separately. For 2021, the procedure shall be completed in accordance with the foreseen deadlines.

### **8.3 Waste Producer Table – EWR**

Pursuant to Article 42, of Law 4042/2012 (FEK 24/A/13.02.2012), as amended by Article 157, paragraph 1 of Law 4389/2016 (FEK 94/A/27.05.2016) and JMD 1/1 (FEK 1/B'/04.01.2017), the Electronic Waste Registry was established, and by JMD 43942/4026 (FEK B' 2992/19.09.2016), liable for the electronic recording and registration are every organization or enterprise the establishments of which produce waste and falling within the scope of Chapter A of Law 4014/2011 (A' 209).

The company responsible for the operation of PATHE motorway, "ODOS KENTRIKIS ELLADOS S.A., is registered in the Electronic Waste Registry (Reg. No 3959), as it falls within the scope of the provisions of Law 4014/2011. Pursuant to DIPA No oik. 37674/2016 (FEK



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2471/B/10.08.2016), PATHE (Skarfeia – Raches Section) and E65 motorways fall under Group 1 projects (Air and land transportation projects) – Road building, S/N 1, and under subcategory A1.

Fluorescent tubes and other mercury-containing waste, lead batteries, tires collected from the motorway, engine, gear and lubricating oils, iron and steel, plastics, animal tissue waste (dead animals), plant-tissue waste, and waste produced by the operation and maintenance works on the motorway and the quantity and delivery mode to each approved Alternative Management System of which is recorded.



Moreover, the company ODOS KENTRIKIS ELLADOS S.A., in the context of corporate social responsibility, has contracted with Alternative Management System companies, thus recycling paper, plastic, batteries, used/damaged electrical and electronic equipment. Additionally, ODOS KENTRIKIS ELLADOS S.A. disposes a certified environmental management system ISO 14001/2015.



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For the year 2020, the concession company submitted the relevant report of waste producer to the electronic waste registry (EWR) for every JMD ETA of the Concession Project separately. For the year 2021, the procedure shall be completed in accordance with the foreseen deadlines.

For all previous years (before the operation of EWR), ODOS KENTRIKIS ELLADOS S.A. has prepared and submitted the relevant reports for waste producer pursuant to JMD 13588/725/06 and on the basis of Law 2939/2001 (and its amendment Law 3854/2010).

## **9. CLEANING AND MAINTENANCE**

All cleaning and maintenance work taken place during 2021 and for which the compliance with the Environmental Terms was checked, are the following:

- Vegetation pruning and maintenance.
- Drain and culvert cleaning and maintenance.
- Advertising billboard removal.
- Sweeping.
- Parking Area cleaning and washing.
- Bins replacement.
- Metal rails replacement.
- Metal safety rails replacement.
- Fencing repairs after accidents.
- Rodent extermination and tunnel gutters inspection.



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For all the above works, monthly inspections are performed that ensure compliance to the E.T., while in the relevant Reports, the check lists and corresponding tables per JMD are included.

## **10. ACCIDENTS – ACCIDENTAL POLLUTION – ACTION PLAN**

An Action Plan for emergency situations has been elaborated, which describes the measures for the timely collection and removal of hazardous substances after a relevant incident on the motorway, designed to prevent the pollution of waterways, soil, or wider environment of the motorway. The Plan is appended to the Police and Firefighting Agreement conducted between the Concessionaire and the Ministry of Interior, the Police and the Fire Department and includes all the measures to be taken and the necessary equipment to be used by the Operator in case of an accident and leakage of non-biodegradable substances.

It is also pointed out that during incident of hazardous cargo management, the competent bodies of the Fire and Traffic Departments shall be entirely in charge of the coordination. The Operator's role is auxiliary with a focus on the traffic management (signs, blocks, diversions) at the direction of the relevant departments, the restoration of the road surface (cleaning, obstruction removal, etc.) and infrastructures (damages, rails restoration, etc.) and the re-opening of the relevant road after the end of the incident.

The primary and essential tool to address accidental leakage, which creates an immediate risk of surface water and soil pollution, is the use of adsorbents, such as sand, sawdust, or special geotextile immediately after the release of the hazardous load. Such materials are readily available by the Operator, the patrol units and the maintenance contractor for direct intervention.

The decontamination process, as well as the transportation and entire management of the contaminated absorbents and the hazardous waste produced by such an incident shall be completed in accordance with the existing legislation, by appropriately licensed companies for the decontamination, transportation and management of hazardous waste, with the aim of timely response to highway accidents.

## **11. SPECIAL TERMS (E.G. TANKS, DRAINAGE MANAGEMENT)**

- Pollution Control Units

It is pointed out that the tanks for temporary retention of contaminated leachate at “Stylida – Karavomylos Total Bypass” section have been constructed in accordance with the E.T. d-13 of JMD 100198/30.05.2006.

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It is noted that, upon completion of the State subcontracting at the PATHE E65 sections, the pollutant reservoirs provided by the JMD EPO 146113/12-07-2005 for the “Skarfia – Thermopyles” section were constructed and delivered to the Concessionaire.

It is noted that the Concessionaire has designed and disposes a pollution response plan to be implemented in case of accidental pollution that will include the use of these tanks in application of the ETs and its contractual obligations.

- Water Quality

Within the framework of the water-monitoring program, for 2021, ten (10) samplings were carried out in one set on the E-65 Motorway and in the PATHE section of Sperchios, i.e. a total of ten (10) samplings. Specifically:

- E-65 Motorway, PATHE Sperchios section:

E65 - PATHE SPERCHIOS SECTION		Samplings
		2021
E65		29/09/2021
<b>A</b>	<b>Lamia – Makrychori</b> (AEPO: 142128/2005)	
1	Sofaditis river	1
2	Land Improvement project Points (Ksiniada – Thessalikos Kampos)	2
3	Smokovo river	1
<b>B</b>	<b>Makrychori – Kalampaka</b> (AEPO: 145521/2005)	
1	Lithaios river	1
2	Pineios river	2
3	Kaletzis river	1
PATHE – E65		
<b>Γ</b>	<b>Stylida – Karavomylos</b> (AEPO: 100198/2006)	
1	Sperchios river mouth & Koilada	2
<b>TOTAL OF MEASUREMENTS :</b>		<b>10</b>

The monitoring parameters for all samples are listed in the table below.

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### Monitoring Parameters

AGENT TYPE	CHEMICAL AGENT	MEASURING UNIT
<b>fats &amp; oils</b>	fats & oils	mg/L
<b>Physicochemical Analysis</b>	temperature	°C
	pH	4-10
	conductivity	μS/cm
	salinity	ppt
	turbidity	NTU
	total hardness	French degrees
<b>Organic load</b>	BOD <sub>5</sub> (Biochemical oxygen demand)	mg/l
	COD (Chemical Oxygen Demand)	mg/l
	TOC (Total organic carbon)	mg/l
	DO (Dissolved Oxygen)	mg/l
<b>Solids</b>	TSS (Total Suspended Solids)	mg/l
	TDS (Total Dissolved Solids)	mg/l
<b>Nutrient Ions</b>	NO <sub>3</sub>	mg/l
	NO <sub>2</sub>	mg/l
	PO <sub>4</sub>	mg/l
	Ammonia (NH <sub>4</sub> )	mg/l
	SO <sub>3</sub> <sup>-</sup>	mg/l
	F <sup>-</sup>	mg/l
	Cl <sup>-</sup>	mg/l
	Na <sup>+</sup>	mg/l
	K <sup>+</sup>	mg/l
	Ca <sub>2</sub> <sup>+</sup>	mg/l
	Mg <sub>2</sub> <sup>+</sup>	mg/l
<b>Metals</b>	Pb	μg/l
	Cd	μg/l
	Fe	μg/l
	As	μg/l

Near the motorway (both E-65 and PATHE) there are various sources of pollution of the adjacent water bodies, to which the exceedance of concentrations of certain measured parameters can be largely attributed. The motorway runs through many crops but also passes through many

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settlements, with the result that the water bodies receive pesticides, fertilizers and household waste. So, mainly during the summer period, agricultural and other anthropogenic activities of the surrounding area may place severe strain on the water bodies.

It is briefly stated that for the E-65 motorway and PATHE Sperchios section, for the 2021 samplings:

- ✓ There were no excessive concentrations of cadmium (Cd), lead (Pb) and arsenic (As).
- ✓ There was no excessive concentrations of iron (Fe) except for the location of Sperchios Valley 2, which, however, is fully compatible with the agricultural and other anthropogenic activities of the surrounding area; in many cases, even the drinking water limits were met.
- ✓ There was no exceedance in both BOD and COD in European level.
- ✓ There was no exceedance of the limits of sulfate, chlorine, ammonia, fluorine, phosphate, nitrate and nitrite ions with the exception of the Sperchios Valley 2 position where some increased values were observed; these values are fully compatible with the agricultural and other anthropogenic activities of the area.
- ✓ For the Sofaditis river, all the limits of the recipient are met.

Taking into account the overall results of all the examinations, the operation of the E65 motorway and PATHE section of Sperchios, which places severe strain on the water bodies, may be characterized as negligible in relation to the other anthropogenic activities.

The full report includes in detail the positions of the measurements and the values of the parameters, is kept by the Concessionaire and is at the disposal of any interested party upon request.

## **12. PLANTINGS – MAINTENANCE OF VEGETATION**

A contract has been concluded with a Subcontractor for the maintenance and management of the vegetation and the plantings.

## **13. CONCESSIONAIRE'S ENVIRONMENTAL DEPARTMENT**

Aftokinitodromos Kentrikis Elladas S.A. is the "Concessionaire" for the Project "Central Greece (E65) Motorway" according to the Concession Agreement.

Under the 05.03.2021 Operation & Maintenance Agreement, the Concessionaire has assigned to the Operator, and the Operator has assumed, all of its obligations, risks, liabilities and rights as concessionaire under the Concession Agreement in respect of the operation and maintenance of the Concession Project, on a back-to-back basis, to the Operator.



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Pursuant to the provisions of the Concession Agreement and the Operation and Maintenance Agreement, the Concessionaire – inter alia - retains the following responsibilities:

- Monitors and supervises the performance of the Environmental Requirements in accordance with the provisions of the Concession Agreement
- Submits reports and updates to the State in accordance with the provisions of the Concession Agreement

The obligations regarding the protection of the environment during the Operation & Maintenance activities of the motorway are set out in Art. 11 of the Concession Agreement, in Articles 2.3 and 2.6 of the SCC and in Annex A of the SCC (Environmental Licensing of the Project). The JMDs of Approved Environmental Terms (JMD AET) that govern the Project are set out in Annex E.

The ETAs are separate by motorway section and specific in terms of the needs of each area, but also in terms of the impact of the O&M of the motorway on the environment.

As for the effective compliance of the above, an Environmental Management System is implemented, designed to cover these special requirements. The maintenance of relevant certification according to the corresponding international standard ISO 14001 provides the possibility of maintaining in force the above environmental conditions for a longer period.

This System, in synergy with the correspondingly certified Environmental Management System of the Concessionaire, shall cover horizontally the entire Concession Project.

As for the implementation of those aforementioned, both the Operator and the Concessionaire dispose a department for the Environment with specialized personnel, which is responsible for the inspection and compliance with the E.T. along the motorways. They also cooperate with a



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special advisor in order to create a group of scientists to cover the extended range of the environment. The group of scientists consists of: a Civil Engineer – Transportation Expert – Acoustical Engineer, an Environmentalist – Environmental Planner, and an Environmentalist – Chemist – Acoustical Engineer, to fully meet the inspection needs of the E.T. for the road project.

**14. REPORTS (SEMI-ANNUAL – ANNUAL SUBMISSIONS)**

For the year 2021, the 1<sup>st</sup> semi-annual Report of Environmental Monitoring of the Concession Project under study, which has been submitted by the Concessionaire under prot. no. 22652/23.07.2021 letter of the Supervisory Authorities and GPDD/YPEN (D17 receipt prot. no.: 201851/26.07.2021, DIPA receipt prot. no. 71081/4585-26.07.2021 & KSESP receipt prot. no. 201854/26.07.2021), has been drafted.

**15. MONTHLY FOLLOW UP – CHECK LISTS**

Based on the Environmental Monitoring and Control Program and the Environmental Management System, the “Tables for the Implementation of the Environmental Terms” are established, outlining the ways and methodology of the necessary actions, in order to ensure the implementation of the Environmental Terms.



Environmental managers, in collaboration with the project engineers, perform regular (monthly) checks and complete the control tables, i.e. the implementation of the “Environmental Monitoring and Control Program”. They also provide the necessary guidelines or directions based on the Environmental Monitoring and Control Program for any environmental issue that arises.

After each regular (monthly) check, the corresponding checklist is filled out, which shows eventual deviations from the implementation of the environmental terms identified by the inspections. The same table provides the proposed corrective actions. The tables are sent to the company responsible for the operation to take all necessary actions and the appropriate measures to comply with the environmental law and the environmental terms of the project. In the following recheck, it is examined whether all the necessary measures and the proposed corrective actions have been taken and the corresponding fields of the monthly checklist are filled.

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The Environmental Management System (EMS) being implemented consists of the Manual, the Procedures, the Work Instructions related to the environment and the compliance with the environmental requirements of the project. The environmental management manual, procedures and instructions are applied uniformly throughout the project and are constantly evolving to meet project needs.

#### **16. INSPECTIONS BY ENTITIES – FINES**

For the year 2021, no environmental deterioration problems caused by the operation and maintenance of the motorway have been identified, and no fines have been imposed on the company responsible for the operation.

#### **17. CERTIFICATIONS**

ODOS KENTRIKIS ELLADOS S.A. and the Operator have developed and implemented individually an Integrated Management System (IMS) resulting from the integration of the Quality, Environment and Safety & Health Systems applied by each company. The aim of both IMSs is to ensure the most efficient management of quality, environmental and S&H issues by eliminating overlapping procedures and controls. In July 2021, the independent annual certification body Bureau Veritas successfully carried out the annual inspection scheduled for ODOS KENTRIKIS ELLADOS S.A. and the first inspection and certification of the Operator according to the standard Management Systems ISO 9001 (Quality), ISO 45001 (Health & Safety), ISO 14001 (Environment).

Furthermore, ODOS KENTRIKIS ELLADOS S.A. and the Operator - recognizing the need for the smooth operation of the motorways falling within their responsibility - separately designed a Business Continuity Plan on which they relied for the implementation of their own Business Continuity Management System (BCMS). In 2020, the BCMS of ODOS KENTRIKIS ELLADOS S.A. has been certified according to the international standard ISO 22301:2012, thus making the latter the first Concession Company to receive the relevant certification.

The annual inspection to certify the BCMS of ODOS KENTRIKIS ELLADOS S.A. (and upgrade to the new standard ISO 22301:2019) and the first inspection to certify the BCMS of the Operator is expected to be completed in early 2022. In addition, ODOS KENTRIKIS ELLADOS S.A. in 2015 designed and implemented a Road Safety Management System, which has been certified according to the international standard ISO 39001:2012, which constitutes a milestone for the safe and efficient fleet management, and demonstrates the company's commitment to implement safe practices on the motorway. The Operator implements the system in 2021.

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In July 2021, the independent certification body TUV Hellas successfully carried out the first inspection to certify the ISO 39001 (Road Safety) Management System of the Operator.

Collectively, ODOS KENTRIKIS ELLADOS S.A. and the Operator are certified to the following Management Systems Standards:

**ODOS KENTRIKIS ELLADOS S.A.**

- ISO 9001 (Quality Management System)
- ISO 45001 (Health & Safety Management System)
- ISO 14001 (Environmental Management System)
- ISO 22301 (Business Continuity Management System)

**OPERATOR**

- ISO 9001 (Quality Management System)
- ISO 45001 (Health & Safety Management System)
- ISO 14001 (Environmental Management System)
- ISO 39001 (Road Traffic Safety Management System)

Following the above inspections, the independent bodies recommended the continuing Certifications for all standards and for at least one year, until the next scheduled annual inspections.



## 18. ENVIRONMENTAL BUDGET

The necessary percentage of the total budget for the operation and maintenance of the motorway required to fully comply with the Environmental Terms and restrictions of the relevant JMD-ETA is made available as a matter of priority. Expenditure on environmental protection projects is included in the annual progress reports on compliance with the Environmental Terms.

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<b>Investment Categories for the Environment</b>	<b>2021 (in €)</b>
Environmental Studies (EIS, TEPEM, EPO renewal Studies, Environmental Licensing of Ancillary works and activities, etc.)	
Vegetation Protection & Maintenance	
Traffic noise monitoring program	
Environmental Advisors and personnel for monitoring the implementation of the E.T.	
Operation of Atmospheric Pollution and Meteorological Data and Air Pollution Monitoring Stations	
Certifications It refers to the cost of the Company's Integrated System which includes (ISO 9001:2015/ ISO 14001:2015)	
Waste management and disposal	
Environmental liability insurance	
Environmental learning and training	
<b>TOTAL:</b>	

## 19. CORPORATE SOCIAL RESPONSIBILITY

ODOS KENTRIKIS ELLADOS S.A. compiles a Corporate Responsibility Report in accordance with the Global Reporting Initiative (GRI) standard, the GRI Standards, and meets the Baseline Selection criteria (in accordance with: Core option).

The Report covers all the core and substantial issues that the company has identified and focuses on, including environmental issues.

The Reports are issued on an annual basis and cover the 5 Corporate Responsibility pillars for Operation & Maintenance activities:

- Road Safety
- Quality on Provision of Human Resources Services
- Caring for the Environment

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- Collaboration with Local Communities and Social Contribution

The Corporate Responsibility Report is posted at <http://www.kentrikiodos.gr>



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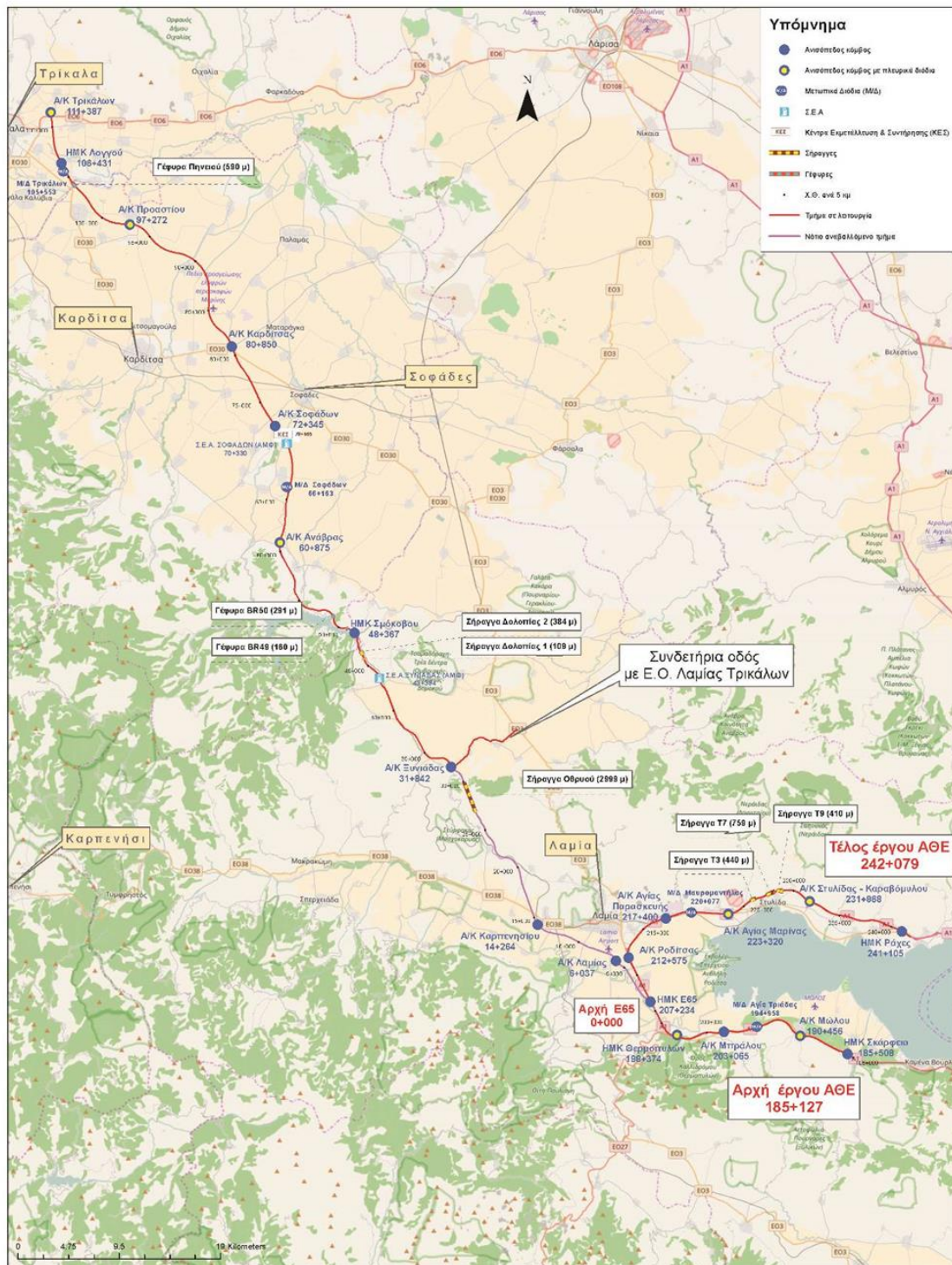
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Annex I



Αυτοκινητόδρομος ΑΘΕ (Σκάρφεια - Ράχες) & Ε65

ATHE Motorway (Skarfeia – Raches) & E65