



INTRODUCTION

This Environmental Management Report is the approach of the Construction J/V's Environmental Management Process for the first semester of 2016 and has been drawn up in the context of its contractual obligation deriving from Article 13.3 paragraph (c) of the Project's Design - Construction Agreement (11.2.2 (iii) of the Concession Agreement 3597/20-07-2007), as amended by Law 4219/2013 (OGG 269A/11.12.2013).

The documentation of each semi-annual environmental management report is part of the Annual Report submitted to the DIPA of YPAPE by January 31 of each year throughout the Design - Construction and Operation Period, in accordance with the approved Environmental terms of the project.

This Semi-annual Environmental Management Report refers to the first semester of 2016 (01.01.2016 to 30.06.2016), as regards the contractual scope of the "Aftokinitodromos Kentrikis Elladas (E65)" Construction Joint Venture, as provided by Law 4219/2013 "Ratification of Amendment Agreements of the Concession Agreements of major road projects and settlement of related issues" and the amended Design – Construction Agreement. The projects included in the first period "Design – Construction T1 Period" (see paragraph 2.1 hereof) are defined under the construction scope. However, as regards the fuller presentation and monitoring of the Project evolution, key elements of the Project are set out as a whole in many cases.

1.1 DESCRIPTION OF THE PROJECT

State: Hellenic Republic

Concessionaire: CENTRAL GREECE MOTORWAY S.A.

Constructor: CENTRAL GREECE MOTORWAY (E65) J.V

Independent Engineer: URS - OMEK

CENTRAL GREECE MOTORWAY (E-65)

The scope of the project¹ includes the “Design – Construction – Financing – Operation - Maintenance and Exploitation of Central Greece Motorway E65” for thirty (30) years in accordance with the respective Concession Agreement:

- (i) “Central Greece” Motorway with a length of 190,5² km from PATHE semi-junction to Egnatia I/C.
- (ii) PATHE motorway with a total length of approximately 57 km from Skarfia to Raches section.

The project is a part of the Trans-European Networks (TEN).

It serves international traffic portals in Volos, Igoumenitsa, Kristallopigi and Niki as well as the trans-regional traffic.

The Central Greece Motorway (E65) starts from the intersection at the PATHE motorway (CH. 203+000) and ends at Egnatia Odos, crossing the prefectures of Fthiotida, Karditsa, Trikala, Grevena.

It consists of two lanes per traffic lane as well as of an emergency lane. The width of the motorway in sections 0+000 – 19+000 and 61+500 – 130+600 is 23.30 m. with a central islet with a New Jersey safety barrier and planting, while as for the sections 19+000 – 61+500, 130+600 – Egnatia I/C is 22,0 m. with a side New Jersey safety barrier on the central islet.

The design speed is 120km/h in the lowland areas and 110km/h in the mountainous regions.

It includes:

1. 24 Interchanges

A. PATHE motorway (State New Section) and 57 km on length 7 Junctions

- Molos I/C at CH. 5+500

¹ The scope of the Project in this section describes the project as a whole, as described in Law 4219/2013.

² The length of the motorway, considering the submitted EIS for the Northern variant in the last section of the motorway (i.e. from CH. 148+110 approximately up to the connection with Egnatia Odos) amounts to 181,5 km.

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- Thermopiles I/C at CH. 18+000
- Roditsa I/C at CH. 27+500
- Ag. Paraskevi I/C at CH. 32+500
- Ag. Marina I/C at CH. 38+200
- Stylida – Karavomilos I/C at CH. 47+000
- Raches I/C at CH. 57+000

Furthermore, two semi-junctions, integrated with E65 motorway, are constructed as follows:

- PATHE semi-junction ~ CH. 22+000
- Anthili semi-junction ~ CH. 26+500

B. E65 motorway 17 Junctions³

- PATHE semi-junction at CH. 0+000
- Lamia I/C at CH. 5+900
- Anthili semi-junction integrated with Lamia I/C
- Karpenissi I/C 14+150
- Ksiniada I/C at CH. 32+270
- Smokovo semi-junction at 48+100
- Anavra I/C at 60+250
- Sofades I/C at 71+900
- Karditsa I/C at 80+400
- Proastio I/C at 97+000
- Loggos I/C at 105+980
- Trikala I/C at 110+940
- Vassiliki I/C at 122+780
- Kalampaka I/C at 135+450
- Grevena I/C at 143+390
- Karpero I/C ~ 169+000⁴

³ Taking into consideration the submitted EIs of the north variant of section 3rd, the junctions of E65 Motorway amounts to 18, since the Oksinia I/C is added on CH. 149+500, and Karpero and Egnatia I/Cs are located on CH. 160+100 and 181+460 of the alignment of the above EIS.

⁴ Taking into consideration the submitted EIS of the north variant of section 3rd, the frontal toll station is approximately located on CH. 181+460 of the alignment of the above EIS.

CENTRAL GREECE MOTORWAY (E-65)

- Egnatia I/C ~ 190+500

2. 6 Frontal & 16 Lateral Toll Stations

a. Frontal toll stations

E-65 motorway

- Karpenissi – Ksiniada at CH. 17+000
- Anavra – Sofades at CH. 66+650
- Proastio – Trikala at Ch. 108+500
- Karpero – Egnatia Odos at Ch. 190+000⁵

PATHE Motorway

- Molos –Thermopiles at CH. 10+000
- Ag. Paraskevi – Raches at CH. 35+000

b. Lateral toll stations

E – 65 motorway

- 2 to Anavra I/C at CH. 60+250
- 2 to Thermopiles I/C at CH. 97+000
- 2 to Trikala I/C at CH. 110+940
- 2 to Kalampaka I/C at CH. 135+450

PATHE motorway

- 2 to Molos I/C at CH. 5+300
- 2 to Thermopiles I/C at CH. 18+200
- 2 to Ag. Paraskevi I/C at CH. 32+200
- 2 to Ag. Marina I/C at CH. 38+500
- 2 to Karavomilos I/C at CH. 46+700

3. 5 Motorist Service Stations (MSS)

- Lianokladi at CH. 12+400
- Ksiniada at CH. 43+200

⁵ Taking into consideration the submitted EIS of the north variant of section 3rd, the Karpero MSS is approximately located on CH. 162+210 of the alignment of the above EIS.

CENTRAL GREECE MOTORWAY (E-65)

- Sofades at CH. 69+950
- Trikala at CH. 116+600
- Karpero ~ CH. 164+000

4. 3 Operation & Maintenance Centers

(Maintenance, Fire Brigade and Police Buildings)⁶

- Lianokladi at CH. 12+400
- Sofades at CH. 69+950
- Trikala at CH. 116+000

5. 4 Tunnels

- Tunnel T2 of a length of 2.983 m at CH. 26+800
- Tunnel T3A of a length of 113 m at CH. 45+600
- Tunnel T3 of a length of 387 m at CH. 46+000
- Tunnel O/E of a length of 264 m at CH. 137+000
- Old National Road Tunnel of a length of 65 m at CH. 137+100 on the lateral road
- Tunnel T4N of a length of 300 m at CH. 159+500⁷

6. 27 Bridges > 50 m⁸

- Tunnel of an approximate length of 102 m. at CH. 20+936
- Tunnel of an approximate length of 89 μ (A) και 68 m. (Δ) at CH. 21+513
- Tunnel of an approximate length of 122 m. at CH. 24+025
- Tunnel of an approximate length of 67, 50 m. at CH. 24+700
- Tunnel of an approximate length of 137 m. at CH. 25+365
- Tunnel of an approximate length of 310 m. at CH. 26+475 (A), 241 m. at CH. 26+450 (Δ)
- Tunnel of an approximate length of 92 m. at CH. 31+750
- Tunnel of an approximate length of 70 m. at CH. 48+256

⁶ Taking into consideration the submitted EIS of the north variant of section 3rd, the MSS per TCC are 4, since a TCC is added on CH. 162+210 of the alignment of the above EIS.

⁷ Taking into consideration the submitted EIS of the north variant of section 3rd, on CH. 175+860 the construction of a twin tunnel with a total length of 340m. for the left branch and another one of a length of 400m. for the right branch is foreseen.

⁸ Taking into consideration the submitted EIS of the north variant of section 3rd, 34 bridges are bigger than 50m.

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- Tunnel of an approximate length of 160 m. at CH. 49+078
- Tunnel of an approximate length of 295 m. at CH. 51+103
- Tunnel of an approximate length of 150 m. at CH. 54+073
- Tunnel of an approximate length of 150 m. at CH. 55+313
- Tunnel of an approximate length of 51.5 m. at CH. 70+420
- Tunnel of an approximate length of 92 m. at CH. 89+919 (Kalentzis river)
- Tunnel of an approximate length of 587 m. at CH. 103+675 (Pinios river)
- Tunnel of an approximate length of 74 m. at CH. 110+509 (Trikala – Larissa N.R.)
- Tunnel of an approximate length of 67 m. at CH. 122+998 (Kalampaka – Larissa N.R.)
- Tunnel of an approximate length of 80 m. at CH. 144+200
- Tunnel of an approximate length of 100 m. (A) and 80 m. (Δ) at CH. 145+500
- Tunnel of an approximate length of 50 m. at CH. 149+065
- Tunnel of an approximate length of 100 m. at CH. 149+895
- Tunnel of an approximate length of 50 m. at CH. 152+511
- Tunnel of an approximate length of 55 m. at CH. 153+910
- Tunnel of an approximate length of 150 m. at CH. 155+420
- Tunnel of an approximate length of 150 m. at CH. 169+385
- Tunnel of an approximate length of 275 m. at CH. 171+935
- Tunnel of an approximate length of 700 m. at CH. 189+695

The Motorway also includes over and under-passes, support walls, drain-pipes, motorist service stations, etc.

The sections of the C.A. Project are divided into sixteen (16) Geographical Units (GU); 11 units on Central Greece Motorway E-65 and 5 units on PATHE motorway. For each Geographical Unit, the physical object is analysed into Groups of similar operations in the Partial Section Bi Price of Designs - Constructions.

The New State Sections that are already being constructed by the State and that, after their completion, will be incorporated into the Concession Project are as follows:

S/W	SECTION	Km.
12 S/W	Skarfia - Thermopiles section	17,32

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13 S/W	Thermopiles - Sperchios section (except for the ERGOSE bridge which is under construction)	8,50
	Bridge under construction by ERGOSE at Thermopiles - Sperchios section	
14 S/W	Sperchios - Ag. Paraskevi I/C	3,50
15 S/W	Ag. Paraskevi I/C - Ag. Marina Section	8,50
16 S/W	Ag. Paraskevi Marina - Raches section	19,20
	Technical works at PATHE - Lianokladi section which is under construction by ERGOSE	

The approved optimizations with previous Ministerial Decisions differentiating the technical object of the project are listed in the table below⁹:

Optimization	Optimization Category	Section	Environmental Licensing	Ministerial Decision approving Optimization
Typical Cross-section	Modification	0+000 - end	Submitted from 148+135 to the end	8938/30.10.2008
CH. 30	Modification	28+000 - 32+000	Re-submitted (24+500 – 31+212) Request the return of file no. 20359/24.11.14. Re-submission with prot. no. 21335/31.03.15	
CH. 48+000 – CH. 56+000	Modification	48+000 - 56+000	Approved	2036/29.11.2010
Relocation of Kalampaka MSS CH. 132+000 to Trikala MSS CH. 117+000	Modification	117+000 & 132+000	Re-submission	
Loggos semi-junction	New object	105+980	Approved	2036/29.11.2010

⁹ The subject of the construction consortium is taken into consideration only at this stage, which means the projects included in the first period “Design - Construction T1 Period” (see Section 2.1 above).

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Optimization	Optimization Category	Section	Environmental Licensing	Ministerial Decision approving Optimization
Relocation of Trikala frontal toll stations from CH. 108+500 to CH. 105+075	Modification	108+500 & 105+075	Approved	
Lateral road at Ag. Triada frontal toll stations (PATHE) 2.5 km	New object	Ag. Triada frontal toll stations	Approved by EYDE/PATHE	
Widening and rehabilitation of local roads (5 km) Rehabilitation of local road Chaidemeni – Raksa	New object	118+000	Approved	
O/P CH. 63+500	New object	63+500	Approved	
O/P CH. 68+500	New object	68+500	Approved	
O/P CH. 93+500	New object	93+500	Approved	
O/P CH. 102+000	New object	102+000	Approved	
Widening U/P 59.1 (Kedros - Anavra) from 10.50m to 13.00m	Modification	59+900	Approved	
Widening U/P G024 (Karditsomagoula – Ag. Triada -Proastio) from 10.50m to 13.00m.	Modification	96+013	Approved	
Changing cross-section width of 4 culverts	Modification	122+190 122+280	Approved Approved	
Connecting branch towards Ksiniada I/C	New object	32+000	Approved	A/6/00/01/01/20112/ 28.11.2013
Sofades I/C	Modification	71+600 - 72+200	Approved	
Karditsa I/C	Modification	79+500 - 81+500	Approved	

Variations already approved by Egnatia Odos S.A. due to special technical problems are listed in the table below:

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Variation	Variation category	Section	Environmental Licensing	Approval Documentation
Ag. Stefanos (archeological site)	modification	31+000 - 33+800	Approved	A214567/30.04.2009 (EOSA) A208744/09.03.2009 (EOSA)
Ksiniada Lake (Organic soils)	modification	36+400 - 39+400	Approved	A214567/30.04.2009 (EOSA)
Railway Station "Aggion"	modification	41+100 - 44+400	Approved	A214567/30.04.2009 (EOSA) A207907/27.02.2009 (EOSA)
Tunnel T3 & T3A	modification	43+000 - 48+000	Approved	A207907/27.02.2009 (EOSA)

According to the environmental terms of the project, the Central Greece Motorway (E65) is divided in the following three sections: the respective PATHE section of the C.A. "Skarfia – Raches" is divided in 5 subsections as follows, and - based on Law 4219/2013 - the optimization of the road connecting the Lamia – Karditsa National Road with Central Greece Motorway is added in the location of Ksiniada I/C:

Section	ET Road Project Decision	Remarks
Central Greece Motorway (E65)		
<u>Section 1st (CH. 0+000–CH. 85+800)</u>		
CH. 0+000 – CH. 85+800	JMD ETA 144504/18.11.2005.	Initial Environmental Licensing
CH. 0+000 - CH. 14+500	Decision of YPEKA prot. no. 167266/01.04.2013.	Modification in section CH. 0+000 - CH. 14+500 (excluding Lamia I/C).
CH. 31+212 – CH. 47+313 & CH. 51+483 - CH. 85+000	M.D. 173471/27.06.2014.	Modification of sections CH. 31+212 – CH. 85+000 (excluding section CH. 47+313 – CH. 51+483).
CH. 47+313 – CH. 51+483	M.D. 147997/14.04.2015.	Modification in section CH. 47+313 – CH. 51+483.
CH. 0+000 – CH. 85+800	Decision of YPEN Dir.- Gen. prot. no. 151991/16.12.2015	Extension of the period of validity
CH. 60+250 – CH. 65+660	M.D. 24355/13.05.2016	Environmental Licensing of Anavra I/C Lateral Toll Station and Sofades Frontal Toll Station
<u>Section 2nd (CH. 85+800 - CH. 137+550)</u>		

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CH. 85+800 - CH. 137+550	JMD ETA 145521/18.11.2005.	Initial Environmental Licensing
C-C at CH. 137+000	Decision of YPEKA Env. Gen. Manager prot. No. 203583/04.12.2012.	As regards the construction of the C-C in section CH. 137+000.
CH. 85+800 – CH. 115+100 & CH. 118+043 – CH. 131+475 & CH. 132+420 – CH. 137+550	Decision of YPEKA Env. Gen. Manager prot. No. 172041/26.11.2013.	Modification of section CH. 85+800 - CH. 137+550 (excluding sections CH. 115+100 - CH. 118+043 and CH. 131+475 - CH. 132+420).
CH. 85+800 - CH. 137+550	Decision of YPEN Dir. - Gen. prot. no. 151991/16.12.2015	Extension of the period of validity
Section 3rd – (CH. 137+550 – CH. 175+000)		
CH. 137+550 – CH. 175+000	JMD ETA 147014/18.11.2005.	Initial Environmental Licensing
CH. 137+550 – CH. 175+000	Decision of YPEN Dir. - Gen. prot. no. 151991/16.12.2015	Extension of the period of validity
KSINIADA CONNECTING ROAD		
From NR Lamia – Karditsa to Ksiniada I/C	Decision of Secretariat Gen. of Decentralized Administration of Thessaly – Central Greece With prot. no. 4644/212888/01.12.2015	Initial Environmental Licensing improving the connecting the NR of Lamia – Karditsa with Central Greece Motorway (E65) at “Ksiniada I/C”, of a total length of 7,8km.
PATHE		
Skarfia – Thermopiles at Skarfia – Lamia of PATHE Motorway		
From Skarfia to Thermopiles (CH. 0+000 – CH. 17+320)	JMD 146113/12.07.2005.	Initial Environmental Licensing
CH. 10+000 & CH. 5+300	Decision EYPE/YPEKA prot. No. 122881/08.03.2010	Environmental Licensing of Ag. Triada frontal toll station & Molos I/C lateral toll station
Upgrading the National Road (NR) to PATHE Motorway at Skarfia – Lamia section, subsection from the beginning of Thermopiles I/C to Nea Kiti Sperchiou		
From Thermopiles I/C to Nea Kiti Sperchiou (CH. 17+320 - CH. 25+820)	KYA 131550/04.05.2003.	Initial Environmental Licensing
CH. 18+000	Decision EYPE/YPEKA prot. No. 121668/08.02.2010	Environmental Licensing of Thermopiles I/C lateral Toll Station

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CH. 17+320 - CH. 25+820	MD 146836/05.03.2015	Modification (small modifications) and renewal of AEPO.
Upgrading the National Road (NR) to PATHE Motorway, section from New Kiti Sperchiou (NKS) up to Roditsa I/C		
From NKS to Roditsa I/C (CH. 25+820 - CH. 29+600)	JMD 146109/30.09.2005.	Initial Environmental Licensing
CH. 27+500	Decision of the Director General of DG Environment YPEKA prot. no. 145496/21.05.2015.	Little modifications at Roditsa junction and the adjacent sections.
Upgrading the National Road (NR) Athina – Thessaloniki to PATHE motorway, Lamia – Raches section, subsection from CH. 3+500 to CH. 12+000.		
CH. 29+600 - CH. 38+100	JMD 130665/02.05.2003.	Initial Environmental Licensing Length of 8,5km.
CH. 29+600 & CH. 29+600	JMD 195214/11.01.2011	Environmental Licensing of Mavromantila Frontal Toll Station & Ag. Paraskevi Lateral Toll Station
CH. 29+600 - CH. 38+100	Decision of YPEN Dir. - Gen. prot. no. 13590/15.03.2016	Renewal of initial AEPO and modification
<u>Stylida – Karavomilos Total Bypass</u>		
CH. 38+100 – CH. 57+600	JMD 100198/30.05.2006.	Initial Environmental Licensing
CH. 38+200 & CH. 47+000	Decision EYPE/YPEKA no. 121667/08.02.2010.	Environmental Licensing of Ag. Marina – Stylida I/C Toll Station & Stylida – Karavomilos I/C.
CH. 38+100 – CH. 57+600	MD 172866/23.05.2014.	Modification and renewal of AEPO
CH. 18+500	Decision of the Gen. Director of Environmental Policy YPEN prot. no. 12757/10.03.2016	Modification of passage of the local road direction toward Neraida

2 GENERAL ISSUES

2.1. BRIEF REPORT

This semi-annual report covers the period from January 01, 2016 to June 30, 2016, following the “Concession Agreement Amendment Effective Date” of the project which was fixed as the 20th of December 2013. The amended Concession Agreement was signed on 28.11.2013 and ratified by the Hellenic Parliament under Law 4219/2013 – OGG 269 A’ of December 11, 2013.

The amended Concession Agreement and the amended Design – Construction Contract of the project provides for the division of the technical object of the Project in two periods:

A. The first period is the “T1 Design – Construction Period” which includes:

As regards the Second Exclusive Partial Deadline:

1. Safety works of the opened up section of the twin T2 tunnel (CH. 27+000) – CH. 30+000)
2. The construction of the frontal toll stations of Mavromantila in PATHE section of the project
3. The preliminary studies for Grevena I/C – Egnatia I/C motorway section
4. The construction works of the motorist service stations (a) in the area of Ag. Triada (2,54 km) and (b) in the areas of SRD6 and SRD6A of Karditsa
5. The construction works of Ag. Triada toll station (PATHE)

At the end of T1 Period:

6. The construction of the motorway section from Ksiniada I/C (CH. 32+270) to Trikala I/C (CH. 110+940).

B. The second period is the “T2 Design – Construction Period” the commencement of which will be determined by ministerial decision and will include part or the total of the sections below:

1. The motorway section from PATHE semi-junction (CH. 0+000) to Ksiniada I/C (CH. 32+270)
2. The motorway section from Trikala I/C (CH. 110+940) to Grevena I/C (CH. 143+390)
3. The motorway section from Grevena I/C (CH. 143+390) to Egnatia I/C (CH. 190+500)

Since the effective date of the amended Concession Agreement and the Design – Construction Contract of the project dated 20/12/2013, the Construction J/V of “Central Greece motorway E65” changed its composition and hereinafter it is consisted by TERNA S.A. and TERNA-ENERGY S.A.

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The Concessionaire notified the J/V, with prot. no. EYDE/EP C&W GR A/6/00/01/01/οικ.4336/17.08.15, on the completion of the construction of the Project Differed Section of para. 4.2.2(a) of the Concession Agreement, namely PATHE Semi junction – Ksiniada I/C, according to those specifically provided for in the Concession Agreement on Constructions of D-C T2 Period.

The Concessionaire, with its letter, requested the Independent Engineer to send the Preliminary Assessment of the impact on the Design – Construction Price due to modifications of the Basic Design for the deferred section referred to in the above Ministerial Decision.

The Concessionaire notified the J/V about the Ministerial Decision with prot. no. EYDE/CP C&W GR A/6/00/01/01/οικ.4341/17.08.15 on the completion of the construction of the Project Deferred Section of para. 4.2.2(a) (iii) and (iv) of the Concession Agreement, namely Trikala I/C – Grevena I/C and Grevena I/C A – Egnatia I/C sections, according to those specifically provided for in the Concession Agreement of Constructions of D-C T2 Period.

The Concessionaire requested the Independent Engineer, with its letter, to send a Preliminary Assessment of the impact on the Design – Construction Price due to modifications of the Basic Design for the Deferred Sections referred to in the above Ministerial Decision.

The Concessionaire notified the J/V about the Ministerial Decision with prot. no. EYDE/CP CW GR A/6/00/06/01/οικ.5973/07.12.15 as regards the completion of the construction of the Underpass structure of the Lamia – Frantzi – Gorgopotamos Provincial Road at CH. 9+357,68, rehabilitation - decommissioning of the temporary existing bypass, completion and rehabilitation of the aforementioned Provincial Road in addition to the structure and completion of other works (plumbing, etc.) as part of the T2 period constructions and according to the existing approved studies totaling 1.345.952,83 €.

The J/V firstly accepted the above execution order of the Underpass (U.P. TR9.4 – TE40) completion woks of the Lamia – Frantzi – Gorgopotamos Provincial Road at CH. 9+357,68 of the motorway and the relating works amounting to 1.345.952,83€, which forms part of the fixed price of the deferred section from PATHE semi-junction up to Ksiniada I/C of the Design – Construction T2 Period and pointed out that, in the event that the issuance of the

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Ministerial Decision on the completion of the works of said deferred section is not achieved, the compensation of the J/V on the expense of the works of the provincial road completion estimated by the Design should be foreseen with a respective contractual settlement through the current Project of D-C T1 Period and in accordance with the provisions of the Agreement.

The J/V submitted the documentation of Article 21.4 of paragraph (a) of the Design – Construction Agreement, as amended and in force [paragraph (i) of Article 18.2.2 of the Concession Agreement, as amended and in force], referring to the Second Exclusive Partial Deadline, for the alternative alignment of Grevena I/C – Egnatia I/C section.

The J/V sent a request to issue a Provincial Works WCC for the Underpass of the Lamia – Frantzi – Gorgopotamos Provincial Road at CH. 9+357,68 according to Article 22 of the D-C Agreement and informed on the completion of the construction works as of 27/2/2016.

The Concessionaire, with its respective letter, sent to the Independent Engineer a request to issue a Works Completion Certificate of the Underpass structure of Lamia – Frantzi – Gorgopotamos Local Road at CH. 9+357,68, according to the provisions of the Concession Agreement.

Upon the Concessionaire's relevant request, the Independent Engineer sent – under paragraph 2 of Article 5 of Law 4213/2013, its positive technical assessment for the alternative alignment by the Concessionaire for Grevena I/C – Egnatia I/C section (alignment of Basic Design for the North End of the motorway), which had been submitted by the J/V.

The IE, following the Concessionaire's request, announced its intention to issue a Local Work Completion Certificate for the Underpass structure at CH. 9+357 (Frantzi Bridge) with the indication of de minimis outstanding issues.

The IE issued the Local Works Work Completion Work Certificate No 5 for the Underpass Structure at CH. 9+357 (Frantzi bridge).

The J/V sent a WCC issuance request of the local project for the KO15A vertical road and the SRD3A lateral road and informed that the construction works have been completed.

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2.1.1. Reporting period

At the reporting date of this report (30.06.2016) the main issues of the involved with the Public Utility Networks work are the following:

- TABLE OF HIGH-VOLTAGE FAULTS, JUNE 2016**

S/N	Implementation entity	CH.	Number of Pylons	Identification of Passage - Relocation	Remarks
KSINIADA-TRIKALA SECTION					
1	Independent Power Transmission Operation	109+950	1	Relocation within road zone	On 14.04.2014 the Independent Power Transmission Operation informs us on: 1. The requested relocations of its networks will be completed on semester B' of 2015 2. It undertakes the expense of the requested projects.
Total		Pylons	1	Passages	0

TABLE OF LOW/AVERAGE-VOLTAGE, JUNE 2016

S/N	Implementing Entity	CH.	Number of Pylons	Identification of Passage - Relocation
LOW/MEDIUM VOLTAGE/ELECTRICITY				
CH. 29+500 - CH. 111+000				
1	PPC Lamia	30+000 - 44+000	23	Relocation of air and underground networks
2	Lamia HEDNO	34+400,		Relocation of air networks

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S/N	Implementing Entity	CH.	Number of Pylons	Identification of Passage - Relocation
3	Karditsa HEDNO	50+000 Local Road Makrirachi - Ktimeni		Relocation of air networks
GRAND TOTAL OF FAULTS			23	

TABLE OF TELECOMMUNICATIONS – PUOs FAULTS, JUNE 2016

AA	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
OTE					
CH. 29+500 – CH. 48+145					
1	Lamia Hellenic Telecommunications Organisation (OTE) Body investigation is needed	32+850		Relocation of OTE underground network for irrigation	424/19. 09. 2008 Answered by 7312/18.12. 2008 of the Municipality of Ksiniada (J/V 1185, 07.01. 2009) Reference made on the networks' faults with the U/P E-65. Requesting from Egnatia to proceed with their relocation.
2	Lamia Hellenic Telecommunications Organisation (OTE) Body investigation is needed	33+400-33+550		Relocation of OTE underground network for irrigation	
3	Lamia Hellenic Telecommunications Organisation (OTE) Body investigation is needed	33+850-33+920		Relocation of OTE underground network for irrigation	
CH. 48+145 – CH. 111+000					

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A/A	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
4	Karditsa Hellenic Telecommunications Organisation (OTE)	80+400 Karditsa I/C		Relocation of OTE underground network	J/V, with letter no. 23773/18.05.16, requests information as regards the network locations apart from the project expropriation zone.
5	Trikala Hellenic Telecommunications Organisation (OTE)	109+300-109+500	9	Relocation of OTE underground network	16571/09.05.2014 Reference made on the networks' faults with the U/P E-65. Requesting to proceed with their relocation.
6	Trikala Hellenic Telecommunications Organisation (OTE)	109+500 & 110+100-110+300	3	Relocation and protection of OTE network	19831/08.09.14 Application
TOTAL		Poles	12		

INTRAKAT Telecommunications					
CH. 48+145 – CH. 111+000					
7	INTRAKAT telecommunications	75+911 Vertical Road		Construction Works for telecommunication network without the J/V's consent	22407/01.10.15 INTRAKAT submitted an application for the granting of routing rights dated 2/10/15 (J/V 22432/07.10.15) and additional applications dated 7/10/15 (J/V 22448/12.10.15) and 21/10/15 (J/V 22543/30.10.15).

S/N	Implementation Entity	CH.	Identification Passage - Relocation	Remarks
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CENTRAL GREECE MOTORWAY (E-65)

S\N	Implementation Entity	CH.	Identification Passage - Relocation	Remarks
WATER SUPPLY				
CH. 29+500 – CH. 111+000				
1	Municipality of Ksiniada	31+450-32+000 affecting the branches of Ksiniada I/C	Relocation of irrigation network – water drainage control	424/19. 09. 2008 Answered by 7312/18.12.2008 of the Municipality of Ksiniada (J/V 1185, 07.01.2009) Reference made on the networks' faults with the U/P E-65. Requesting from Egnatia to proceed to their relocation.
2	Technical Service of the Municipality of Domokos	47+950 – 48+050 affecting the branches of Smokovo semi-I/C	Relocation of two water pumping stations on the local road of Agios Stefanos - Perivoli	J/V, with prot. no. 22821/08.12.15, by the Technical Service of the Municipality of Domokos, the relocation of two water pumping stations located on the local road of Agios Stefanos – Perivoli onto an area outside the motorway occupation range
3	Municipal Enterprise for Water Supply and Sewerage of Trikala	105+928,40 (Loggos semi-I/C)	Relocation & protection of irrigation system	20247/06.11.14

S\N	Implementation Entity	CH.	Identification Passage - Relocation	Remarks
IRRIGATION				
2	Municipality of Domokos	33+550	Relocation of irrigation network (investigation)	Indications of irrigation network on rural road
3	Municipality of Domokos	35+100	Relocation of irrigation network	Drilling Building – Irrigation pipes

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SN	Implementation Entity	CH.	Identification Passage - Relocation	Remarks
O.S.E. S.A. PROJECTS				
	OSE S.A.	38+781 Perivoli	Works in existing passage of the local road at Kallipefki – Aggies at Perivoli, Municipality of Domokos. Construction of UP38.1 underpass and relocation of Agios Stefanos – Perivoli local road.	<p>20101/10.10.14</p> <p>EYDE/C&W GR CP with prot. no. A/6/00α/08/25/oik.1698/16-02-15 (J/V 21013) requested OSE for immediate actions concerning the relocation of the level crossing, in order for the works to be completed.</p> <p>ΔΙΣΗΣΗΚ/OSE with prot. No. 1275496/11-03-15 (J/V 21197) informed us that our request was sent to the competent Directorate of the Line Maintenance (ΔΙΣΥΓ/ΟΣΕ) and during an on-situ visit on 02-03-15, informed us on the relocation requirements of the equipment of the existing level crossing.</p> <p>Following oral consultations, the J/V informed OSE with prot. no. 22051/18.07.15 regarding the execution of works at the location of the level crossing from 30.07.15 to 10.08.15.</p>

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SIN	Implementation Entity	CH.	Identification Passage - Relocation	Remarks
				<p>EYDE/ CP C&W GR, in its letter with prot. no. A/6/00α/08/25/2132/21.04.16 (J/V 23721) repeated its invitation to OSE for immediate actions to move the level crossing in order for the works to be completed.</p> <p>ΔΙΣΗΣΗΚ/OSE, in its prot. no. 1275418/26.05.16 (J/V 23862), sent to the J/V the information regarding the J/V's request addressed to the respective Line Maintenance Directorate (ΔΙΣΥΓ/ΟΣΕ)</p>

SIN	Implementation Entity	CH.	Identification Passage - Relocation	Remarks
NATURAL GAS				

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S\N	Implementation Entity	CH.	Identification Passage - Relocation	Remarks
1	Hellenic Gas Transmission System Operator S.A.	104+900 Loggos, Trikala	Involvement. Construction of parking area	<p>23015/08.01.16 In response to DESFA (Hellenic Gas Transmission System Operator S.A. Development Power) with prot. no. Π094272/ΙΓ/κβ/19.05.16 (J/V 23791) sent the coordinates of the points of part of the natural gas pipeline, involved in the study area, suggested the construction of a plate of reinforced concrete (according to the attached typical design) along the intersection with the Natural Gas pipeline and up to the foot of the slope (approx. 20m.), not covered by the existing protection structure and requested for the relocation of the pillar measuring cathodic protection and the terminations of two air pipes and the realization of all works upon supervision.</p> <p>On 3/6/16 the protection works of the natural gas pipeline have been completed and the relocation of the terminations of the air pipes and the pillar measuring cathodic protection.</p>

2.2. ENVIRONMENTAL REQUIREMENTS

The design, construction and operation of the project are conducted in full compliance with the Approved Environmental Terms as well as with all the requirements that derive from the Concession Agreement (C.A) and the attached contractual documents (Design & Construction Agreement, Special Conditions of Contract, Technical Conditions of Contract, Project Design Regulation) as well as the applicable legislation.

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Basic requirement for the construction of the project is the Law no. 3597/20.07.2007 (OGG 3445A/25.07.2007), as amended by Law 4219/2013 concerning the ratification of the Agreements Amending the Concession Agreements of major road projects and the regulation of all related matters (OGG 269A/11.12.2013), which includes the contractual issues, the current legislation, as detailed in the previous Environmental Management Reports (semi-annual and annual ones), as well as the conditions and restrictions arising from the individual permits and approvals, including the environmental studies of the various individual projects, the approvals of the amendments of the main road project, etc., for which the Contractor of the Project is responsible.

The 2015 legislative work of YPEKA is set out in the table below.

Table 2.2-1: Legislative Work 2015

Date	Number	Subject
<u>LAWS & PRESIDENTIAL DECREES</u>		
<u>DECISIONS & CIRCULARS</u>		
11.02.2016	JMD 131207/I3/2015 (OGG 1858B/27.08.2015)	"Setting rules, measures and terms to deal with risks from accidents of major extent in installations or units, due to the existence of dangerous substances, in compliance with the provisions of directive 2012/18/EE "to address the risks of major accidents relating to dangerous substances and to amend and to repeal Directive 96/82/EK of the Council" of the European Parliament and Council of July 4 th , 2012. Replacement of no. 12044/613/2007 (B' 376), as corrected (B'2259/2007)".

3 ENVIRONMENTAL MANAGEMENT OF THE PROJECT

3.1. ENVIRONMENTAL MONITORING & CONTROL PROGRAM

The “Environmental Monitoring & Control Program” is based on the environmental terms of the project and on the Concession Agreement and includes the following:

- Prioritisation of protective actions - measures that should be taken by the Constructional J/V according to the Environmental Terms and other contractual obligations.
- The designs, studies and technical reports that should be drawn up in the framework of construction and operation of the project and that involve several environmental issues.
- The implementation control process of the terms and actions by the competent authorities.

The purpose of the Environmental Monitoring & Control Program is to clearly determine the actions and measures required for the environmental management of the construction phase of the project and that derive from recording and assessing the environmental terms, other obligations or guidelines arising from the contractual documents and the applicable legislation.

The Environmental Monitoring & Control Program has already been submitted to EYP/YPEXODE.

3.2. ENVIRONMENTAL MANAGEMENT SYSTEM – ENVIRONMENTAL TERMS COMPLIANCE CHECKLISTS

The “Environmental Terms Compliance Checklists” are drawn up based on the Environmental Monitoring & Control Program and the Environmental Management System. These checklists include the way and methodology of required actions in order to ensure the implementation of the Environmental Terms.

The responsible department for the environment in cooperation with the project engineers carry out regular inspections and complete the checklists by applying the “Environmental Monitoring & Control Program”. Furthermore, they provide the necessary orders or guidelines that are based on the Environmental Monitoring & Control Program for every issue related to the environment.

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The Environmental Management System, which is applied by the J/V, has been drawn up taking into consideration the requirements of ISO 14001:2004. It consists of the Manual, the Procedures, the Guidelines of the Works related to the environment and the observance of the project's environmental requirements. The manual, the procedures and the guidelines for environmental management is applied uniformly throughout the project and are currently in continuous progress in order to meet the project's needs.

3.3. MONTHLY, SEMI-ANNUAL AND ANNUAL PROGRESS REPORT FOR THE IMPLEMENTATION OF ENVIRONMENTAL TERMS

At the same time, in order to monitor the Program and inform the Environmental Department of the Independent Engineer on a monthly basis, the Environmental Department of the J/V draws up monthly and annual progress reports for the implementation of the environmental terms in the form of a table. These monthly reports include:

- Works or designs carried out regarding the implementation of the Environmental Terms and all possible variations on the Environmental Monitoring & Control Program.
- The relevant actions of the persons responsible (inspections, special reports, etc.).
- A full photographic presentation of the environmental issues

In July of each year, a semi-annual progress report is being drawn up with respect to the implementation of the Environmental Terms in accordance with article 11.2.2., case (ii) of the Concession Agreement.

In January of each year, an annual progress report is being drawn up, pursuant to article 11.2.2 (iii) of the Concession Agreement, which includes the annual review of all issues described in the periodical reports.



4. ENVIRONMENTAL ISSUES PROGRESS – WORKS CONSTRUCTION

The progress of the construction works is submitted by the joint venture CENTRAL GREECE MOTORWAY E65 to the Concessionaire via monthly reports of design – construction progress.

The above paragraphs constitute the documentation for the compliance of the environmental commitments regarding the construction works progress.

4.1. PERMITS - DESIGNS - APPROVALS

This section presents all requests submitted by the Constructional Joint Venture in order to obtain permits in the framework of the project's implementation. Furthermore, the relevant designs that arise from the obligation to observe the contractual requirements and environmental terms of the project are presented.

4.1.1 Permits and approvals in accordance with the environmental terms of the project.

In the context of observing the environmental terms and other requirements based on the applicable legislation, relevant studies on the environmental licensing of the ancillary works are being prepared and submitted for approval and permit. The competent authority for the environmental studies is DIP/YPEN (former EYPE/YPEKA).

The following table (table 4.1.1-1) presents all relevant information on the submissions conducted to DIP/YPEN.

Table 4.1.1-1
Studies for the environmental permit of ancillary works

No.	Ancillary work	Area	Submission to DIPA (ref. no. DIPA - former EYPE)	DIPA's Decision (former EYPE)	Comments (approval, re- submission- rejection, etc.)
1.	STIS. MATERIAL WITHDRAWAL FROM ONOHONO RIVER (BP5N1)	Municipality of Sofades, Prefecture of Karditsa	141388/25-6-2009	141388/04.08.2009	STIS approval
2.	STIS. BORROW PIT AT AGIA PARASKEVI, "KALAMAKI BR" (BP1N3)	Agia Paraskevi, Municipality of Lamia, Prefecture of Fthiotida	136998/05.03.2009	136998/28.07.2009	STIS approval
3.	STIS. WORKSITE AT LAMIA IN "AG. TRIFONAS" POSITION (MSS CH. 12+000) (IS1N1)	Stavros, Municipality of Lamia, Prefecture of Fthiotida.	136998/05.03.2009	136998/28.07.2009	STIS approval
4.	STIS. BORROW PIT / DISPOSAL SITE "Pyrgaki – Kofina" (BP/DS1N1)	Stavros, Municipality of Lamia, Prefecture of Fthiotida.	136998/05.03.2009	136998/28.07.2009	STIS approval The Regional Forest Service Directorate does not approve the intervention permit
5.	STIS. BORROW PIT "Platana - Rema" (BP1N2)	Lygaria, Municipality of Lamia, Prefecture of Fthiotida.	136998/05.03.2009	136998/28.07.2009	STIS approval
6.	STIS. BORROW PIT IN "MAGOULA" POSITION AT SPERHIOS RIVER (BP1N4)	Among Municipality of Ypati and Lianokladi, Prefecture of Fthiotida	136998/05.03.2009	136998/28.07.2009	The position has been rejected by STIS
7.	STIS. BORROW PIT IN "ASPROKAMPOS" POSITION AT GERAKARIS STREAM (BP1N5)	Kompotades, Municipality of Ypati, Prefecture of Fthiotida.	136998/05.03.2009	136998/28.07.2009	STIS approval The location has been rejected by the Hellenic Public Real Estate Corporation (HPREC)
8.	STIS. BORROW PIT AT "AERODROMIO" AREA (BP6N1)	Kefalovryssos, Municipality of Falaria, Prefecture of Trikala	140546/04.06.2009	140546/29.07.2009	STIS approval
9.	STIS Review Borrow Pit "AERODROMIO"	Kefalovryssos, Municipality of Falaria, Prefecture of Trikala	148761/18.12.2009	121188/29.01.2010	Approval of the revised STIS

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No.	Ancillary work	Area	Submission to DIPA (ref. no. DIPA - former EYPE)	DIPA's Decision (former EYPE)	Comments (approval, re- submission- rejection, etc.)
	(BP6N1)				
10.	STIS. Borrow Pit "Kioskia" (BP4N1)	Municipality of Tamassi, Prefecture of Karditsa, Anavra	143395/10-08-2009	143395/02-09-2009	STIS approval
11.	STIS. Borrow Pit "Geladaria" (BP4N2)	Municipality of Tamassi, Prefecture of Karditsa, Anavra	145522/16-10-2009	145522/17-11-2009	STIS approval
12.	STIS. Anavra Worksite "Kedrakos" position (IS5N1)	Municipality of Tamassi, Prefecture of Karditsa, Anavra	143394/10-08-2009	143394/02-09-2009	STIS approval
13.	STIS. Agios Georgios Worksite "Voulgarolakka" position	Municipality of Kampos, Agios Theodoros, Prefecture of Karditsa	143394/10-08-2009	143394/02-09-2009	STIS approval
14.	STIS. "GKOLNA" Worksite (BP5N4)	Municipality of Goriani, Prefecture of Grevena	121768/10-02-2010	----	The design was returned because of the decision of the Council of State for temporary suspension of the works in the 3rd JMD.
15.	STIS. Borrow Pit in "Mavrogies" position (BP5N4)	Sikeona, Municipality of Filo, Prefecture of Karditsa	121768/10-2-2010	14693/	STIS approval
			Resubmission 14076/16.06.2011 (J/V No)	10.11.2011	
16.	STIS. Borrow Pit in "Vrontaria" Position (BP6N2)	Fiki, Municipality of Pitalia, Prefecture of Trikala	124501/ 21.04.2010	127798/08.07.2010	STIS approval
17.	STIS. Stone processing installation in the quarry materials – borrow pit in "Pyrgaki" Position (IS1N2)	Stavros, Municipality of Lamia, Prefecture of Fthiotida	144259/11.09.2009	144259/17.11.2009	STIS approval
18.	STIS. Stone processing installation in the quarry materials – borrow pit in "Kalamaki Vr." Position (IS1N3)	Agia Paraskevi, Municipality of Lamia, Prefecture of Fthiotida	144259/11.09.2009	144259/17.11.2009	STIS approval
19.	Stone processing installation in the worksite facilities of Lamia (IS1N4)	Stavros, Municipality of Lamia, Prefecture of Fthiotida	144259/11.09.2009	144259/17.11.2009	STIS approval

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No.	Ancillary work	Area	Submission to DIPA (ref. no. DIPA - former EYPE)	DIPA's Decision (former EYPE)	Comments (approval, re- submission- rejection, etc.)
20.	STIS. Washing of aggregates with a sieve in the sand borrow pit in Gerakaris r. (IS1N5)	Kompotades, Municipality of Ypati, Prefecture of Fthiotida	144259/11.09.2009	144259/17.11.2009	Rejected due to refusal of the lease application by the Mortgage Service of Prefecture of Fthiotida
21.	STIS. Worksite in Kalampaka MSS position (CH. 132+000) (IS9N1)	Municipality of Kalampaka, Prefecture of Trikala	125561/17.05.2010	199070/09.05.2011	Rejected by EYPE due to location within Natura 2000 area
22.	STIS. Worksite in "Lampes" position (IS6N1)	Proastio, Municipality of Selana, Prefecture of Karditsa	126671/11.06.2010	195831/31.01.2011	STIS Approval
23.	STIS. Worksite in "Samolaka" position (IS2N1)	Styrfaka, Municipality of Lianokladi, Prefecture of Fthiotida	126332/04.06.2010	127799/08.07.2010	STIS Approval
24.	STIS. Borrow Pit "Ammoudes" (BP5N5)	Filia, Municipality of Sofades, Prefecture of Karditsa	128447/27.07.2010 (J/V prot. no.)	132626/ 22.11.2010	STIS approval
25.	STIS. Borrow Pit "Haliades" (BP5N6)	Filia, Municipality of Sofades, Prefecture of Karditsa	128805/04.08.2010 (J/V prot. no.)	132626/ 22.11.2010	STIS approval
26.	STIS. Worksite of Perivoli (IS3N1)	Perivoli, Municipality of Ksiniada, Prefecture of Fthiotida	9575/06.08.2010 (J/V prot. no.)		Expected to be approved
27.	STIS. Worksite (IS2N3) in "Ohro" position (T2 tunnel exit area)	Moshokaria, Municipality of Lianokladi, Prefecture of Fthiotida	128699/09.09.2010 (J/V prot. no.)	201981/01.08.2011	Approval
28.	STIS. Temporary deposit in "Fteres" position (DS2N1)	Moshokaria, Municipality of Lianokladi, Prefecture of Fthiotida	128699/09.08.2010 (J/V prot. no.)	201981/01.08.2011	Rejected
29.	STIS. Plant of asphalt production and 3A material mixer	Anavra, Municipality of Tamassi, Prefecture of Karditsa	128343/23.07.2010 (J/V decision no.)	201980/ 01.08.2011	STIS Approval
30.	Environmental Impact Pre-study. Environmental licensing of drilling wells under the project "Landscape Planting - Irrigation and Rehabilitation for the CH. 56+000 – CH. 90+000 of the Central Greece Motorway	CH. 56+000 – CH. 90+000	13323/01.04.2011 (J/V decision no.)		Submission of Environmental Impacts Pre-study DIPA/YPAPEN, with letter no. 146419/26.02.2015, returned the study
			Request for STIS return 21008/17.02.15		

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No.	Ancillary work	Area	Submission to DIPA (ref. no. DIPA - former EYPE)	DIPA's Decision (former EYPE)	Comments (approval, re- submission- rejection, etc.)
	(E65)".		(J/V decision no.)		
31.	STIS. Materials store and 2 units of asphalt production in "Sykia" position (IS1N7)	Koma, Municipality of Lamia, Prefecture of Fthiotida	201026/06.07.2011 Request for STIS return 14187/05.06.15 (J/V decision no.)	---	DIPA/YPAPEN, with letter no. 146313/26.02.2015, returned the study
32.	STIS/ EIS. Borrow pit in "Fournia" position (BP342)	Makrirachi, Municipality of Ksiniada, Prefecture of Fthiotida	204542/27.10.2011 STIS submission 15481/21.12.2012 (J/V prot. no.) EIS submission	MD 171820/01.04.2014	EYPE/YPEKA has returned the STISs with prot. no. 299814/20.07.2012 and asked for the submission of EIS in accordance with Law 4014/2011. EIS approved
33.	Lateral Toll Station in CH. 60+200	Anavra, Municipality of Sofades, Prefecture of Karditsa	204541/27.10.2011 STIS Submission 21343/01.04.2015 STIS Submission	MD 24355/13.05.2016	Approved
34.	STIS. Operation and Maintenance Centre in CH. 69+700	Municipality of Sofades, Prefecture of Karditsa	204544/27.10.2011	MD 147997/14.04.2015	Approved
35.	Frontal Toll Station and station's administration building in CH. 65+650	Municipality of Sofades, Prefecture of Karditsa	204543/27.10.2011 STIS Submission 21343/01.04.2015 STIS Submission	MD 24355/13.05.2016	Approved

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No.	Ancillary work	Area	Submission to DIPA (ref. no. DIPA - former EYPE)	DIPA's Decision (former EYPE)	Comments (approval, re-submission-rejection, etc.)
36.	STIS/EIS. Borrow pit in Agios Stefanos position (BP345)	Agios Stefanos, Municipality of Ksiniada, Prefecture of Fthiotida	204863/08.11.2011 STIS submission 15482/21.12.2012 (J/V prot. no.) EIS submission	MD 171820/01.04.2014	EYPE/YPEKA has returned the STISs with prot. no. 200811/20.07.2011 and asked for the submission of EIS according to Law 4014/2011. EIS approved
37.	EIS. Borrow pit at "Kokkalitsa", Makrirachi settlement, Prefecture of Fthiotida (BP3N6)	Makrirachi, Municipality of Domokos, Prefecture of Fthiotida	18752/18.06.2014 EIS Submission	MD 147997/14.04.2015	EIS approved
38.	TEPEM (Technical Environmental Study) of Trikala worksite at 7 th km of NR Trikala - Karditsa	Megala Kalyvia, Municipality of Trikaia, Prefecture of Trikala	20292/10.11.2014 TEPEM (Technical Environmental Study) Submission	145494/21.01.2015	TEPEM approved
39.	TEPEM Frontal Stations of Trikala and Station Management Building	Trikaia, Prefecture of Trikala	21132/01.04.2015 TEPEM Submission	100775/05.02.2015	TEPEM approved
40.	TEPEM Lateral Stations of Proastio I/C	Sellana, Prefecture of Karditsa	21132/01.04.2015 TEPEM Submission	100775/05.02.2015	TEPEM approved
41.	TEPEM Lateral Stations of Trikala I/C	Trikaia, Prefecture of Trikala	21132/01.04.2015 TEPEM Submission	100775/05.02.2015	TEPEM approved
42.	TEPEM worksite of bituminous mixture production unit at Proastio I/C	Proastio, Municipal Unit of Sellana, Prefecture of Karditsa	21446/16.04.2015 TEPEM Submission	148421/04.09.2015	TEPEM approved
43.	Worksite Installations TEPEM for the production of asphalt mix on CH. 43+500	Makrirachi, Municipality of Domokos, Prefecture of Fthiotida	23408/11.03.2016 TEPEM Submission		Expected to be approved

The above studies include:

- The Special Study for Quarry Restoration, of a total area of 28.723,66 m² at the location of "Aploma", P.U. of Karditsa which has been ratified by decision no. 6922/230204/16.12.2015 of the S.G. for the Decentralized Administration of Thessalia – Central Greece.

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- The submitted with prot. No. 23599_CC-X-CO-T100N_EM-sk_18.04.16 Special Study for Quarry Restoration (borrow pit) of a surface of 17.605 m² in the region of Smokovo dam, Municipal Unit of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa sent to the Forestry of Karditsa, which has been approved by decision no. 2358/76833/24.05.2016 of the S.G for the Decentralized Administration of Thessalia – Central Greece.
- The submitted with prot. no. 23706_CC-X-CO-T100N_EM-sk_06.05.16 Special Study of Quarry Restoration (borrow pit) of a surface of 68.586m² in the region of Smokovo dam, Municipal Unit of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa, sent to the Forestry of Karditsa.
- The submitted with prot. no. 23766_CC-X-CO-T100N_EM-sk_17.05.16 Special Study of Quarry Restoration (borrow pits) at the location of “Leimani”, Municipal Unit of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa for the construction of E65 motorway, section CH. 31+000 – CH. 85+000, sent to the Forestry of Karditsa.

The above areas constitute old non-restored exploitations which are suggested to be restored with embankment projects (from excess/inappropriate materials resulting from the construction of the road project) and relief configuration and reforestation.

For the above projects the procedures of Article 7 of Law 4014/2011 and para. 2a of Article 40 of Law 4030/2011 as replaced by para. 11 of Article 51 of Law 4280/2014 have been followed. The above projects offer multiple benefits, since the motorway project is served for the storage of excavation materials that cannot be reused in the same motorway project, already affected areas are addressed and in harmony with the natural environment. Furthermore, the choice of these locations prevents the creation of permanent disposal pit in other locations, by reducing the possible impacts on the environment generated from these kinds of actions.

Finally, in the context of addressing the localized CH.A.D.A (site for the uncontrolled disposal of waste) “Antealakia” or “Fteres” “Fteres” (CH. 108+500 of the motorway) of the Municipal Unit of Estiaiotida, of the Municipality of Trikkaia, of the Prefectural Unit of Trikala of the region of Thessaly, with decision no. 3901/220229/ΠΕ2015/26.01.2016 of the Head of the Dir.-Gen. for Planning & Environmental Policy of Thessalia – Central Greece Decentralized Administration approved the relevant Proposal of the Technical Study for Environmental Rehabilitation (TSER).

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Within the second semester of 2016, additional relevant designs or even design reviews for environmental permitting of ancillary works such as disposal sites, worksites, borrow pits, etc. are expected to be submitted in order to receive environmental permit.

Moreover, in line with the environmental terms of the project, all the respective permits and opinions are obtained by the competent authorities, such as Forest Services, Archaeological Services, Prefectural Administration Services, etc.

The Constructional Joint Venture submits the required requests to obtain relevant permits. The main competent services involved in the project are the following:

- Forest Service of Lamia
- Forest Service of Karditsa
- Forest Service of Trikala
- Forest Service of Kalampaka
- Forest Directorate of Grevena
- Service of Modern Monuments and Technical Works of Thessalia & Central Greece
- Ephorate of Antiquities of Fthiotida and Evritania
- Ephorate of Antiquities of Karditsa
- Ephorate of Antiquities of Karditsa
- Regional Section of Fthiotida
- Regional Section of Karditsa
- Regional Section of Trikala
- Regional Section of Grevena
- etc.

The relevant correspondence is presented below:

1. In response to our request dated 09.12.15, the Service of Modern Monuments and Technical Works of Thessalia and Central Greece, by letter no. 2698/22.12.2015, sent its positive opinion regarding the modifications of Central Greece Motorway (E65) at section CH. 0+000 – CH. 24+500 (05.01.16).
2. Upon implementation of decision no. 6922/230204/16.12.2015 of the Directorate-General of the Decentralized Administration of Thessaly and Central Greece (approval of the Special Restoration Study of the quarry area at “Aploma”, Municipal Unit of Tamassi, Municipality of Sofades, Prefectural Unit of Karditsa), the Forestry of Karditsa, with prot. no. 5636/237155/Π.Ε./04.01.2016 asked for the submission of the request to install the landscaping restoration when the surfaces to be restored are configured in order to be followed by the service (11.01.16).
3. In response to our request no. 09.12.15, the Ephorate of Antiquities of Fthiotida and Evritania with prot. no. 7048 π.ε./04.01.2016 sent its positive opinion as regards the amendments of Aftokinitodromos Kentrikis Ellados (E65) at section CH. 0+000 – CH.

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- 24+500 identifying an instance of discovery of non-visible antiquities during the execution of the project at the “Valogourna” position of Ligaria, Municipality of Fthiotida (CH. 20+936 – CH. 24+506) (13.01.16).
4. Our J/V's request sent to the Forest Directorate of Fthiotida for extension of the concession time and use of land of 53.562,21 m², at the position of “Kalamaki Vryssi”, Municipality of Lamia, Prefectural Unit of Fthiotida, to conduct material withdrawal works (quarry site – code BP1N3), of decision no. 1159/31.03.2010 for intervention approval of the Sec. – Gen. of Central Greece's Prefecture (18.01.16).
 5. Our J/V's request sent to the Forestry of Lamia for opinion on the borrow pit section (without the use of explosives) at the Local Community of Agios Stefanos, Municipal Unit of Ksiniada, Municipality of Domokos, Prefectural Unit of Fthiotida (code BP3N5) (25.01.16).
 6. SSPW CP C&W GR with letter no. A/6/00α/06/18/oik.6534/14.01.2016 transmitted the AEPO no. 4644/212888/01.12.2015 of the project “Improvement of Connecting Road of Lamia – Karditsa N.R. with Aftokinitodromos Kentrikis Ellados (E65) at the position of Ksiniada I/C” (26.01.16).
 7. With decision no. 3901/220229/ΠΕ2015/26.01.2016 of the Head of the Directorate – Gen. of Land Planning & Environmental Policy of the Decentralized Administration of Thessaly – Central Greece, the relevant Proposal of the Technical Study for Environmental Restoration of CH.A.D.A. [Site for the uncontrolled landfill of waste] at “Antealakia” or “Fteres” (at CH. 108+500 of the motorway) of the Municipal Unit of Estiaiotida, Municipality of Trikkia, of the Prefectural Unit of Trikala, Region of Thessalia has been approved (29.01.2016).
 8. Submission of extra copies of the EIS for the amendment of AEPO of Makrihori – Lamia section, specifically for:
 - The modification of Lamia I/C system at CH. 5+500 according to the decision no. A/6/00/01/01/20112/28.11.2013 of the Minister of Infrastructure, Transport and Networks.
 - The modification of the motorway at section CH. 14+500 – CH. 24+500 (02.02.16).
 9. Drafting and submission of the revised Environmental Monitoring and Inspection Program (05.02.16).
 10. In response to our J/V's request dated 25.01.16 sent to the Forestry of Lamia for an opinion on the borrow pit section (without the use of explosives) at the Local Community of Agios Stefanos, Municipal Unit of Ksiniada, Municipality of Domokos, Prefectural Unit of Fthiotida (code BP3N5), the Forestry of Lamia with prot. no. 370/13108/28.01.2016 sent its opinion (05.02.16).
 11. NEA ODOS S.A. with its registration no. 05.02.2015 sent to EYDE CP C&W GR the extra copies of EIS for the amendment of AEPO of Makrihori – Lamia section, specifically for:
 - The modification of Lamia I/C system at CH. 5+500 according to decision no. A/6/00/01/01/20112/28.11.2013 of the Minister of Infrastructure, Transport and Networks.
 - The modifications of the motorway at section CH. 14+500 – CH. 24+500. (09.02.16).
 12. In response to our J/V's request, the Forestry of Lamia with prot. no. 6972/230985/03.02.2016 sent its opinion regarding the modifications of Central Greece Motorway at section CH. 0+000 - CH. 24+500, specifically:
 - The modification of Lamia I/C system at CH. 5+500 according to decision no. A/6/00/01/01/20112/28.11.2013 of the Minister of Infrastructure, Transport and Networks.
 - The modifications of the motorway at section CH. 14+500 – CH. 24+500. (09.02.16).
 13. The Forestry of Lamia, with prot. no. 406/14148/04.02.2016, issued a Certificate of estoppel with prot. no. 66848/8227/08.11.2011 of the characterization act, of the area of the borrow pit (without the use of explosives) at the Local Community of Agios Stefanos,

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- Municipal Unit of Ksiniada, Municipality of Domokos, Prefectural Unit of Fthiotida (code BP3N5) and informed us that, as for the section of the said borrow pit, objections have been raised (09.02.16).
14. Following our claim no. 27.01.2014, the Forestry of Lamia, with prot. no. 4591/158748/03.02.2016, sent its opinion on the Amendment File of the EIS JMD no. 114504/18.11.2005 of the project "Road axle of Central Greece (E65) Lamia – Makrihori section" (as amended and in force) as regards the final design of the alignment at the road section from CH. 24+500 to CH. 31+212 (09.02.16).
 15. Request sent to the Department of Natural Resources of the Decentralised Administration of Thessalia – Central Greece for the issuance of the exploitation licence and the drawing up of the leasing agreement for the borrow pit section (35.460,76 m2) (without the use of explosives) at the Local Community of Agios Stefanos, Municipality of Ksiniada, Municipality of Domokos, Prefectural Unit of Fthiotida (code BP3N5) (11.02.16).
 16. EYDE (SSPW) CP C&W GR with prot. No. A/6/00α/08/24/6417/03.02.2016 submitted to DIPA/YPEN the EIS extra copies for the amendment of the AEPO of Makrihori – Lamia section, specifically for :
 - The modification of Lamia I/C System at CH. 5+500 according to decision no. A/6/00/01/01/20112/28.11.2013 of the Minister of Transport, Infrastructure and Networks.
 - The modifications of the motorway at section CH. 14+500 – CH. 24+500. (12.02.16).
 17. The Forest Directorate of the Prefecture of Fthiotida with prot. no. 380/18016/15.02.2016 sent to the Forest Directorate and Forest Environment Management of YPEN, the opinion no. 6972/230985/03.02.2016 of the Forestry of Lamia (22.02.16).
 18. The Forest Directorate of the Prefecture of Fthiotida sent with prot. no. 379/18015/15.02.2016 to the Directorate of Forest and Forest Environment Management of YPEN, the Lamia Forestry opinion with prot. no. 4591/158748/03.02.2016 (22.02.16).
 19. The Directorate of Forest Coordination and Inspection of the Decentralised Administration of Thessalia – Central Greece with prot. no. 915/27558/29.02.2016 sent to the Directorate of Forest & Forest Environment Management of YPEN the positive opinion regarding the amendments of Central Greece Motorway at section CH. 0+000 - CH. 24+500, specifically:
 - The modification of Lamia I/C system at CH. 5+500 according to decision no. A/6/00/01/01/20112/28.11.2013 of the Minister of Infrastructure, Transport and Networks.
 - The modifications of the motorway at section from CH 14+500 – CH. 24+500 (04.03.16).
 20. The Directorate of Forest Coordination & Supervision of the Decentralised Administration of Thessalia – Central Greece with prot. no. 915/27558/29.02.2016 sent to the Directorate of Forest & Forest Environment Management of YPEN the positive opinion as regards the final design of the alignment at the road section from CH. 24+500 to CH. 31+212 (04.03.16).
 21. Drafting and submission of TEPEM for worksite installations for the production of asphalt mixture at CH. 43+500 of Aftokinitodromos Kentrikis Ellados (11.03.16).
 22. Request for opinion sent to the Construction Projects Department of the Special Service of Public Works of the Hydraulic Infrastructures Construction regarding the restoration of two inactive quarry sites with embankment and landscaping works (11.03.16).
 23. Submission of fees for the issuance of the exploitation licence of Agios Stefanos borrow pit, Municipal Unit of Ksiniada, Municipality of Domokos (18.03.16).
 24. In response to our claim dated 11.03.16, EYDE KYK / TKE of Karditsa sent its positive opinion with prot. no. 70/18.03.2016 (22.03.16).
 25. Submission of a letter of guarantee for the issuance of the licence of Agios Stefanos borrow pit, Municipal Unit of Ksiniada, Municipality of Domokos (29.03.16).

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26. The Natural Resources Department of the Decentralised Administration of Thessalia – Central Greece requested with prot. no. 375/36102/23.03.2016 the submission of necessary fees and a letter of guarantee in order for the decision approving the leasing to under a direct agreement and granting the exploitation licence of Agios Stefanos borrow pit, Municipal Unit of Ksiniada, Municipality of Domokos be issued (30.03.16).
27. The I.E. with prot. No. CC.4.IE.GG.00.000.012535/11.04.2016 accepted in principle the revised Environmental Monitoring and Control Program Rev1.0 (11.04.16).
28. Drafting and submission of Special Forest Engineering Study for the restoration of the borrow pit (without the use of explosives) at the Local Community of Agios Stefanos, Municipal Unit of Ksiniada, Municipality of Domokos, Prefectural Unit of Fthiotida (code BP3N5) (13.04.16).
29. Drafting and submission of the Special Restoration Study of the quarry area (borrow pit) of 17.605m² in the region of Smokovo dam of the Municipal Unit of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa (18.04.16).
30. Informative letter sent to the Thessalia Waters Directorate to conduct inspections, cleaning and pumping test in expropriated drillings at the area of the Prefecture of Karditsa from 22.04.2016 up until 27.04.2016 (21.04.16).
31. Following the submitted Special Study of Quarry Rehabilitation (EMAL) dated 18.04.16, the EYDE (SSPW) Construction of Hydraulic Infrastructures/Construction Projects Department of Karditsa sent its positive opinion with prot. No. 128/21.04.2016 (22.04.16).
32. With decision no. 112/8387/15/26.04.2016 (ADA: 7NΛ8OP10-YTK) the Gen.- Secretary of the Decentralized Administration of Thessalia – Central Greece decided the direct leasing of a total public area of 25.919,39 m² in the region of the Local Community of Agios Stefanos, Municipal Unit of Ksiniada, Municipality of Domokos, Prefectural Unit of Fthiotida and grant of exploitation licence of aggregate materials quarry (borrow pit). This area constitutes a borrow pit section at the Local Community of Agios Stefanos, Municipal Unit of Ksiniada, Municipality of Domokos, Prefectural Unit of Fthiotida, (code BP3N5) (27.04.16).
33. Submission of inactivity declaration of the aggregate materials – borrow pit quarries in the region of “Aerodromio” or “Potamia”, Local Community of Kefalovryssos, Municipal Unit of Falaria, Municipality of Trikala, Prefecture of Trikala for 2015 (28.04.16).
34. Submission of inactivity declaration of the aggregate material – borrow pit quarry at “Kalamaki Vryssi”, Local community of Agia Paraskevi, Municipality of Lamia, Prefecture of Fthiotida for 2015 (28.04.16).
35. Submission of inactivity declaration of aggregate materials – borrow pit quarry at “Kioskia”, Local Community of Anavra, Municipal Unit of Tamassi, Municipality of Sofades, for 2015 (28.04.16).
36. Submission of activity report of aggregate materials – borrow pit quarry at “GELADARIA”, Local Community of Anavra, Municipal Unit of Tamassi, Municipality of Sofades, Prefecture of Karditsa for the year 2015 (28.04.16).
37. Drafting and submission of the Special Restoration Study of the quarry area (borrow pit) of 68.586m² in the region of Smokovo dam, Municipal Unit of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa (06.05.16).
38. Following the submitted Special Study of Quarry Rehabilitation (EMAL) dated 06.05.16, the EYDE (SSPW) Construction of Hydraulic Infrastructures/Construction Projects Department of Karditsa sent its positive opinion with prot. No. 147/10.05.2016 (11.05.16).
39. Drafting and submission of the Special Restoration Study of the quarry area (borrow pits) at “Leimani” position, Municipal Unit of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa for the construction of E65 motorway, section CH. 31+000 – CH. 85+000 (17.05.16).
40. Director-General of Environmental Policy of the Ministry of Environment & Energy issued with prot. No. 100775/05.02.2015 decision for the approval of the Technical Environmental Study (TEPEM) for the implementation (construction and operation) of

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- Trikala Frontal Toll Station (CH. 105+075) and the Lateral Toll Stations at Proastio I/C (CH. 97+000) and Trikala I/C (CH. 110+940) for the operational needs of Central Greece Motorway (E65) (adjacent works) (24.05.16).
41. The Secretary General of the Decentralised Administration of Thessalia – Central Greece issued a decision with prot. no. 2358/76833/24.05.2016 on the approval of the Special Restoration Study of the inactive quarry area – borrow pit of a total surface of 17.604,92 m² in the region of Smokovo dam, Municipal Unit of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa (26.05.16).
 42. Submission of request for installation protocol at a borrow pit section (with the use of explosives) at the Local Community of Agios Stefanos, Municipal Unit of Ksiniada, Municipality of Domokos, Prefectural Unit of Fthiotida (code BP3N5), for the construction of Central Greece Motorway (E65) (26.05.16).
 43. KENTRIKI ODOS S.A., with document dated 16.06.2016, submitted an AEPO amendment file, Article 6 of Law 4014/2011 for the Motorway Service Station at the locations of Sofades and Ksiniada, in the framework of amending the environmentally licensed Central Greece Motorway (22.06.16).

4.1.2 Project Environmental Designs

The contractual scope of the Constructional Joint Venture is to prepare the relevant technical and other designs for the implementation of the project. Furthermore, the environmental terms of the project referred to the relevant hydraulic and landscaping designs should be conducted for the construction of the project. The J/V of the project has commissioned to a specialized design office the elaboration of the environmental studies required to grant permits for the modifications that arise from the finalization of the works have been assigned. The designs are prepared by the Construction Joint Venture and are submitted to the Concessionaire in order to promote them for approval to the Owner of the Project (PWGD/EYDE C&W GR CP) and the department of YPAPEN (former YPEKA), i.e. the Directorate of Environmental Licencing (DIPA - former Special Environmental Service - EYPE). The environmental studies of the project are presented in the following table (table 4.1.2-1 & 4.1.2-2).

Table 4.1.2-1

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Joint Ministerial Decision / Road Work Designs

No.	Decision Protocol No.	Decision Title / Project Section
1.	Joint Ministerial Decision 144504/18.11.2005	"Central Greece (E65) Road Axis / Makrihori – Lamia"
2.	Director General for the Environment Decision YPEKA prot. no. 167266/01.04.2013	Decision Amending AET JMD 144504/18.11.2005 (CH. 0+000 – CH. 14+500)
3.	MD 173471/23.06.2014	Decision no. 144504/18.11.2005 amending the JMD ETA. It refers to subsection CH. 31+212 – CH. 85+800, section CH. 47+313 – CH. 51+843 is excluded.
4.	MD 147997/14.04.2015	Decision no. 144504/18.11.2005 amending the JMD ETA – as amended and in force, referring to section CH. 47+313 – CH. 51+843
5.	MD 24355/13.05.2016	Environmental licensing of Anavra I/C Lateral Toll Station and Sofades Frontal Toll Station
6.	Joint Ministerial Decision 145521/18.11.2005k	"Central Greece (E65) Road Axis / Makrihori – Kalampaka"
7.	Director General for the Environment Decision YPEKA prot. no. 203583/04.12.2011	Decision Amending AET JMD 145521/18.11.2005 Cut & Cover in CH 137+000
8.	Director General for the Environment Decision YPEKA prot. no. 172041/26.11.2013	Amendment of AET JMD 145521/18.11.2005 Amendments in Makrihori – Kalampaka It refers to section CH. 85+800 – CH. 137+550
9.	Joint Ministerial Decision 147014/18.11.2005	"Central Greece (E65) Road Axis / Kalampaka - Egnatia Odos & Agia Paraskevi I/C" for its connection with Egnatia Odos".
10.	Decision of YPEN Director General with prot. no. 151991/16.12.2015	Extension of time period of the:

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No.	Decision Protocol No.	Decision Title / Project Section
		<p>A. JMD EPO 144504/18.11.2005 of the project: "Central Greece (E65) Road Axle Makrihori – Lamia Section", as amended and in force.</p> <p>B. JMD EPO 145521/18.11.2005 of the project: "Central Greece (E65) Road Axle Makrihori – Kalampaka Section", as amended and in force.</p> <p>C. JMD EPO 147014/18.11.2005 of the project: "Central Greece (E65) Road Axle Kalampaka – Egnatia Odos (Agia Paraskevi junction), Prefecture of Trikala, Grevena".</p>
11.	Joint Ministerial Decision 103681/05.05.2006	"Connecting road of the Smokovo I/C with the existing road network". <u>The said project does not constitute scope of the Concession Agreement anymore.</u>
12.	Joint Ministerial Decision 146113/12.07.2005	Skarfia - Thermopiles at the section of Skarfia - Lamia of the PATHE Motorway
13.	Joint Ministerial Decision 126696/06.06.2007	Amendment of the Joint Ministerial Decision 146113/12.07.2005. The amendment refers to the approval of the Borrow Pits
14.	122881/08.03.2010 EYPE/YPEKA	Environmental licensing of Agia Triada and Molos I/C toll stations of PATHE motorway
15.	Joint Ministerial Decision 131550/04.05.2003	"Optimization of the National Road to a PATHE motorway, Skarfia - Lamia section, subsection from the beginning of the Thermopiles Interchange to Nea Kiti of Sperchios river".
16.	121668/08.02.2010 EYPE/YPEKA	Environmental licensing of the toll station in Thermopiles I/C of PATHE motorway
17.	MD 146836/05.03.2015	Amendment and renewal of the environmental terms of the section from Thermopiles I/C to Nea Kiti Sperchios of PATHE motorway.
18.	Joint Ministerial Decision	"Optimization of the National Road to a PATHE

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No.	Decision Protocol No.	Decision Title / Project Section
	146109/30.09.2005	motorway, section from Nea Kiti of Sperchios river to Roditsa Interchange”.
19.	145496/21.05.2015 EYPE/YPEKA	Environmental terms amendment of section from Nea Kiti Sperchios to Roditsa I/C of PATHE motorway, as regards minor amendments at Roditsa junction and its adjacent sections.
20.	Joint Ministerial Decision 130665/02.05.2003	“Optimization of the National Road Athens - Thessaloniki to a motorway that will serve Patra - Athens - Thessaloniki - Evzoni (PATHE), Lamia - Raches section, subsection at CH.3+500 to CH.12+000”
21.	JMD 195214/11.01.2011	Amendment of the 130665/02.05.2003
22.	Decision of YPEN Director General with prot. no. 13590/15.03.2016	Renewal and modification of environmental terms of the subsection between Roditsa and Agia Marina intersections (CH. 3+500 – 12+000) of Lamia – Raches section of PATHE motorway.
23.	Joint Ministerial Decision 100198/30.05.2006	“Overall Bypass at Stylida – Karavomilos”
24.	121667/08.02.2010 EYPE/YPEKA	“Environmental licensing of the toll stations of Agia Marina – Stylida ICs and Stylida – Karavomilos I/C of PATHE motorway”
25.	Decision 172866/23.05.2014	Amendment and renewal of the environmental terms of the project “Stylida – Karavomilos Total Bypass” of PATHE motorway.
26.	Decision of YPEN Director General with prot. no. 12757/10.03.2016	Amendment of the environmental terms of the total bypass of Stylida – Karavomilos of PATHE motorway
27.	Decision of Dir. – Gen. of Decentralized Administration of Thessalia – Central Greece with prot.	Approval of environmental terms of the project “Improvement of the connecting road of Lamia – Karditsa local road with Central Greece (E65)

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No.	Decision Protocol No.	Decision Title / Project Section
	no. 4644/212888/01.12.2015	motorway at “Ksiniada I/C” location.

Table 4.1.2-2

Joint Ministerial Decision / Road Work Designs submitted by the Construction J/V

No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
1.	Report for the determination of environmental permit procedures of the modification project of Central Greece Road Axis (E-65) in Lamia – Makrihori section (CH. 0+000 – CH. 14+500) (Supporting documentation of art.13 of JMD with no 11014/703/Φ104/2003 KYA)	6484/10.03.2010	----	----
		14111/22.06.2011	----	Resubmission
		15414/08.11.2012	167266/01.04.2013	Submission of 2 extra copies. <u>Approval:</u> no. 167266/01.04.2013 JMD EPO Amendment Decision no. 144504/18.11.2005
2.	Report for the determination of environmental permit procedures of the modification project of Central Greece Road Axis (E-65) in Makrihori – Kalampaka section (CH. 14+500 – CH. 85+800) (Supporting documentation of art.13 of JMD with no 11014/703/Φ104/2003 KYA)	12005/04.01.2011	----	Submission
		14129/23.06.2011	----	Resubmission EYPE/YPEKA with prot. no. 203089/13.11.2012 requested for the EIS submission

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
3.	Additional Environmental Impact Assessment for the improvement of CH. 47+000 – CH. 56+000 (of Smokovo semi section)	12015/05.01.2011	MD 147997/14.04.2015	Approved
4.	Environmental Terms Amendment file of Central Greece (E65) Motorway at Lamia – Makrihori (JMD ETA 144504/18.11.2005), for the environmental licensing of subsection CH. 24+500 – CH. 31+212.	18588/30.05.2014	---	Submission. Following points 2&3, section CH. 14+500 – CH. 85+800 was partitioned at individual subsections.
		20297/11.11.2014	---	Withdrawal of study in order for our J/V to re-examine and re-submit the reviewed version, if required, in the future.
		21335/31.03.2015	---	Request for resubmission
		121789/08.06.2015	---	Submission of extra copies
		218352/05.06.2015	Expected to be approved	Submission of archaeological service opinions
5.	Amendments file pursuant to Article 6 of Law 4014/2011 for the environmental licensing of the amendments at the project sections CH. 31+212 – CH. 85+800 (excluding section CH. 47+313 – CH. 51+843).	15991/18.02.2014	MD 173471/23.06.2014 Decision amending JMD ETA no. 144504/18.11.2005	Following points 2&3, section CH. 14+500 – CH. 85+800 was partitioned at individual subsections. Approved.
6.	Environmental Impact Study for the environmental licensing of the amendments of section CH. 47+313 – CH. 52+840.	16362/28.04.2014	MD 173471/23.06.2014	Following points 2&3, section CH. 14+500 – CH. 85+800 was partitioned at individual subsections.

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
				Approved.
7.	Report for the definition of procedures of environmental licensing for the Central Greece (E-65) in section of Makrihori – Kalampaka (CH. 85+800 – CH. 137+550) (File under Article 13 of JMD 11014/703/Φ104/2003)	3113/23.07.2009	----	The design was submitted by EOSA with protocol no A248145/04.03.2010 The design has been given back by EYPE with protocol no 122785/26.04.2010
		3786/21.09.2009		
		4796/27.11.2009		
		5097/14.12.2009		
		6005/11.02.2010		
		12006/04.01.2011	----	Resubmission
		14130/23.06.2011	Director General for Environment / YPEKA Decision prot. no. 172041/26.11.2013	Resubmission and Approval: YPEKA Gen. Director Decision no. 172041/26.11.2013.
8.	Environmental Impact Assessment for the relocation of Kalampaka MSS (CH. 132+000) to a new location near Trikala (CH. 117+000)	11990/04.01.2011	----	Resubmission
		----	---	Return of the design by EOSA for resubmission (A282383/26.01.2011)
		13178/22.03.2011	---	Resubmission and <u>rejection</u> : YPEKA Gen. Dir. of Env. Decision no. 172041/26.11.2013
		19067/27.06.2014	Expected to be approved	Resubmission
9.	Environmental Impact Assessment for the Cut & Cover construction in CH. 137+000 with recoverable materials	12854/28.02.2011	----	Submission
				Return of the design by EOSA for resubmission (A287258/17.03.2011)
		13726/09.05.2011	203583/04.12.2012	Resubmission <u>Approval</u> : there are

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
				substantive differences in the impact on the environment, and environmental conditions approved by JMD A.E.T no. 145521/18.11.2005 shall apply
10.	Environmental Impact Assessment for the Cut & Cover construction in CH. 138+400 with recoverable materials	12854/28.02.2011	----	Submission
				Negative response EOSA (A287258/17.03.2011) due to the fact that the said project belongs to the JMD 147014/18.11.2005 which is suspended in the interim order of the Council of State
		13726/09.05.2011	----	Resubmission
11.	EIS for the amendment of the Environmental Terms of north subsection of "Kalampaka Egnatia" section of Central Greece Motorway (E65)	20580/18.12.2014	Expected to be approved	Submission
12.	Connecting road from Anavra to Thavmakos (A' Section) of a length of 13,5 km. in replacement of the connecting road Smokovo – Monastiri, of 9 km. approximate length (additional EIS)	12016/05.01.2011	EYPE/YPEKA letter no. 198627/28.05.2012 transmitted to the Directorate of Environment and Spatial Planning of Central Greece due to jurisdiction, in accordance with the new classification of projects and activities of the M.D. 1958/2012 (OGG 21B/13.01.2012)	Since the major section of the proposed alignment of the road is within the limits of Karditsa, the Directorate of Environment and Spatial Planning of Central Greece asks EOAE with a relevant document (prot. no. DI.PE.CHO.S. of Central Greece 2803/117679/12.07.2012)

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
				<p>to submit an issue of this EIS to DI.PE.CHO.S. of Thessaly of the Decentralized Administration of Thessaly - Central Greece.</p> <p>The said project does not constitute scope of the Concession Agreement anymore.</p>
13.	Improvement of the road connecting Lamia – Karditsa NR with Central Greece Motorway at Ksiniada I/C (EIS)	19516/04.08.2014	Request by the Environmental and Planning Design dpt. of Thessaly Decentralized Administration for the integration of adjacent projects in the EIS (prot. no. 1180/48516/19.03.2015)	Submission. Decision of Dir. – Gen. of Decentralized Administration of Thessalia – Central Greece with prot. no. 4644/212888/01.12.2015
		21584/07.05.15 Submission of EIS reviewed	4644/212888/01.12.2015	
	Study for the Environmental Licensing of the Construction and Operation of the toll stations in Athens – Thessaloniki N.R., in the subsection Skarfia – Thermopiles of Skarfia – Lamia section, in Agia Triada and Molos I/C locations. (File pursuant to article 13 of the JMD 11014/703/Φ104/2003)	3907/28.09.2009	122881/08.03.2010 EYPE / YPEKA	Approved
15.	Study for the Environmental Licensing of the Construction and Operation of the toll stations in Athens – Thessaloniki N.R., in the	4049/08.10.2009	121668/08.02.2010 EYPE/YPEKA	Approved

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
	subsection of Thermopiles I/C beginning – Nea Kiti of Sperchios of Skarfia – Lamia section, in Thermopiles I/C location (File pursuant to article 13 of the JMD 11014/703/Φ104/2003)			
16.	Study for the Environmental Licensing of the Construction and Operation of the toll stations in Athens – Thessaloniki N.R., in the subsection Roditsa I/C end – Agia Marina I/C beginning of Lamia – Raches section, in Agia Paraskevi and Mavromantila I/C. (File pursuant to article 13 of the JMD 11014/703/Φ104/2003)	4049/08.10.2009	JMD 195214/11.01.2011	Approved
17.	Study for the Environmental Licensing of the Construction and Operation of the toll stations in Athens – Thessaloniki N.R., in the subsection of Agia Marina I/C beginning, Stylida –Raches I/C of Skarfia - Raches section, in the locations of Agia Marina I/C, Stylida and Stylida I/C – Karavomilos. (File pursuant to article 13 of the JMD 11014/703/Φ104/2003)	4049/08.10.2009	121667/08.02.2010 EYPE / YPEKA	Approved
18.	Technical Environmental Study of Trikala and Administration building, Technical Environmental Study (TEPEM) of Trikala Frontal Toll Station and Administration building, Proastio I/C Lateral Toll Station and Trikala I/C Lateral Toll Station	21132/01.04.2015 21682/25.05.2015 21887/06.07.2015	 100775/05.02.2015	Submission. Submission of positive opinions on behalf of the archaeological services. Submission of extra copies. Submission of horizontal alignments of the under-

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
		12.10.2015	DIPA/YPEN	approval Toll Stations with the approved expropriation limits of the motorway. Approved
19.	Environmental Impact Study (EIS) for the environmental licensing of the Toll Stations and the Administration Building of the Motorway "E-65": Frontal Toll Station of Sofades and Administration Building of Anavra I/C Lateral Toll Station.	21343/01/04/2015 21700/28.05.2015 21958/16.07.2015 22451/12.10.2015 22766/01.12.2015	 MD 24355/13.05.2016	Submission Submission of positive opinions on behalf of the archaeological services Submission of extra copies Submission no. 1437/73083/24.06.15 of positive opinion of the Forestry of Karditsa on the environmental licensing of Anavra I/C lateral toll stations and Sofades frontal toll station with the administration building. Submission of horizontal alignments of the under-approval Toll Stations with the approved expropriation limits of the motorway.
20.	Environmental Terms renewal file of the project: "Central Greece (E65) Road axle, Makrihori – Lamia Section"	22295/11.09.2015 22506/23.10.2015	Expected to be approved	Submission Submission of extra copies Approved

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations
21.	Environmental Terms renewal file of the project: "Central Greece (E65) Road axle, Makrihori – Kalampaka Section" - JMD EPO 145521/18.11.2005, as amended and in force	22295/11.09.2015 22506/23.10.2015	Expected to be approved	Submission Submission of extra copies Approved
22.	Environmental Terms renewal file of the project: "Central Greece (E65) Road axle, Kalampaka – Egnatia Odos section and Agia Paraskevi I/C for its connection with Egnatia Odos – JMD EPO 147014/11.11.2005 as amended and in force.	22295/11.09.2015 22506/23.10.2015	151991/16.12.2015. DIPA/YPEN	Submission Submission of extra copies Approved
23.	Environmental Impact Study for the amendment of AEPO for Makrihori - Lamia section, specifically for: <ul style="list-style-type: none"> The modification of Lamia I/C system at CH. 5+500 according to Decision no. A/6/00/01/01/20112/28.11.2013 of the Minister of Infrastructure, Transport and Networks and The modification of the motorway at section CH. 14+500 – CH. 24+500 	22465/15.10.2015	Expected to be approved	Submission

4.3.1 Special Designs

No special designs have been prepared during the A' semester of 2016.

- Special Study for Quarries Restoration (borrow pit) of an area of 17.605m² in the region of Smokovo dam, Municipal District of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa

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- Special Study for Quarries Restoration (borrow pit) of an area of 68.586m² in the region of Smokovo dam, Municipal District of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa



- Special Study for Quarries Restoration (borrow pit) at “Leimani”, Municipal District of Menelaida, Municipality of Sofades, Prefectural Unit of Karditsa for the construction of E65 motorway, section CH. 31+000 – CH. 85+000

4.2. Antiquities

The Constructional Joint Venture is in direct communication with the competent archaeological services. Based on the Concession Agreement and the



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Design/Construction Agreement, the J/V is responsible for performing trial archaeological cuts following the competent authority's instructions.

The following table presents in detail the up-to 30.06.2016 situation performed in the reserved areas.

TABLE OF SITES RESERVED BY THE ARCHAEOLOGICAL SERVICE CH. 32+000 – CH. 111+000, DECEMBER 2014

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S/N	CH. Start	CH. Finish	Place Name	Blocked-on Doc.	Free-on Doc.	Remarks	Actual Date for area completion/degradation/ release	Works Fault Length – Description of technical scope
1	39+280	39+340	Perivoli	Fthiotida & Evritania Ephorate of Antiquities: 377/14-11-14 (JV 20360)		Interruption of excavating works and need to secure the area upon completion of the excavating investigation from 14/11/14 to 15/9/15 according to respective documents of the Ephorate of Antiquities of Fthiotida & Evritania with prot.	Degradation in progress	39+280 - 39+340 : Motorway fault length: 60m
2	46+600	54+000	Ktimeni			Monitoring deforestation of dense vegetation and excavation of the main axis and structures by the Archaeological Service in accordance with the Ephorate of Antiquities of Karditsa letter with prot. no. 203638/120225/2201/63/05.08.15 (J/V 22189).		

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3	56+060	56+180	Alonaki Anavra	<p>Karditsa Ephorate of Antiquities: 35501/20339/306/209/09.02.16 (J/V23262): Transmission of decision with prot.no. ΥΠΠΟΑ/ΓΔΑΠΚ/ΔΙΠΚΑ/ΤΣΠΑΕΕ/9377/5381/478/88/14.01.16: CH. 56+120–56+180 conservation at the slope of the trench of residues of the buildings 2&7 of the Southern Sector with suitable support and degradation upon excavation of all remaining residues ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑΚarditsa/ΤΠΚΑΧΜΑΕΜ/56631/31827/473/148/25.02.16: C.H. 56+060 - 56+180 (J/V23402): completion of investigation works on December 2015 and manual degradation on January 2016 and site release subject to conservation of part of buildings at the slope of the road and suitable support</p>	<p>The area to be explored is below the limits of the asphalt road of Anavra - Smokovo Lake and has been delivered to the Archaeological Service.</p> <p>The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 159/29.09.15 (J/V 22401) that the period from 10/9 to 25/9/15 residues were found within the project area occupying an area of approximately 1.200 sq. m. at section CH.56+060 – 56+180 and that the archaeological excavations began on 28/9/15. The Ephorate of Antiquities of Karditsa with letter no. 364235/214749/4015/300/21.12.15 (J/V 22958) informed us that the excavation lasted from late September to 21/12/15 and suggested the conservation at the slope of the trench of residues of two buildings of the Southern Sector, the degradation of the remaining residues and the partial delivery of the reserved area according to the progress of degradation.</p>	<p>Completion of degradation on January 2016. Pending construction of support walls</p>	
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CENTRAL GREECE MOTORWAY (E-65)



4	63+880	64+060	Faneromeni	<p>Karditsa Ephorate of Antiquities: 270/02.02.15 (J/V 20909), 203638/120225/2201/63/05.08.15 (J/V 22189) & 265022/155869/2890/159/29.09.15 (J/V 22401)</p>	<p>The Ephorate of Antiquities of Karditsa informed us with letter no. 159/29.09.15 (J/V 22401) that the time period from 17/9 to 18/9/15 residues were identified during the investigation in the trenches on both sides of the road which constitute the continuity of residues, surveyed in 2010 on the main arterial road, and that excavation will be conducted. The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 4125/4/18.01.16 (J/V 23154) that the excavation works at sections CH. 63+880 – 64+060 and CH. 64+120 – 64+180 are expected to be completed up until the end of March 2016.</p>	19/5/2016	Eastern and Western Drainage Trenches
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CENTRAL GREECE MOTORWAY (E-65)



5	64+060	64+280	Faneromeni	Karditsa Ephorate of Antiquities: 270/02.02.15 (J/V 20909), 203638/120225/2201 /63/05.08.15 (J/V 22189) & 265022/155869/2890 /159/29.09.15 (J/V 22401)		<p>The Ephorate of Antiquities of Karditsa informed us with letter no. 159/29.09.15 (J/V 22401) that the time period from 17/9 to 18/9/15 residues were identified during the investigation in the trenches on both sides of the road which constitute the continuity of residues, surveyed in 2010 on the main arterial road, and that excavation will be conducted.</p> <p>The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 4125/4/18.01.16 (J/V 23154) that the excavation works at sections CH. 63+880 – 64+060 and CH. 64+120 – 64+180 are expected to be completed up until the end of March 2016. The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 1443/327/20.05.16 (J/V 23809) about its proposal for site release of the drainage ditches of section CH. 64+120 – 64+280 with supervision by the Service of the landfill of residue and the re-configuration of slopes as well as the presence of the existing excavation depth at part of the western trench that has not been excavated. The decision of the Central Archaeological Council (KAS) is pending.</p>		Eastern and Western Drainage Trenches
6	67+380		Mavrahades Sofades	Karditsa Ephorate of Antiquities: 36370/20812/311/86 /09.02.16 (JV 23263)		<p>The Ephorate of Antiquities of Karditsa informed the J/V with its letter with prot. no. 36370/20812/311/86/09.02.16 (J/V 23263) that residues were identified in the trench of the western side.</p>		Western drainage trench

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7	67+380	67+553	Mavrahades Sofades	Karditsa Ephorate of Antiquities: 36370/20812/311/86/09.02.16 (JV 23154)	ΥΠΠΟΑ/ΓΔΑΠΚ/ΕΦΑ Karditsa/ΤΠΚΑΧΜΑΕ M/151744/9179/13 47/302/11.05.16:(J/ V 23785): Completion of archaeological residue investigation on 23/2/2016 at section CH. 67+449 – 67+522 and on 25/2/2016 at section CH. 67+550 – 67+553 and release of sections thereof	The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 4125/4/18.01.16 (J/V 23154) that the excavation investigation at sections CH. 67+380, 67+449 – 67+522 and 67+550 – 67+553 started on 12/1/16 and is expected to be completed up until March 2016. The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 36370/20812/311/86/09.02.16 (J/V 23263) that residues were identified in the limits of the western trench at sections CH. 67+449 – 67+522 and CH. 67+550 – 67+553.	11/5/2016 for sections CH. 67+449 – 67+552 & 67+550 – 67+553	Trenches on both sides of the road
8	82+430		Gorgovites Palama	Karditsa Ephorate of Antiquities: 36370/20812/311/86/09.02.16 (JV 23154)		The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 4125/4/18.01.16 (J/V 23154) that a part of prehistoric trench or enormous hole has been identified and that the works are expected to be completed up until the end of March 2016. The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 36370/20812/311/86/09.02.16 (J/V 23263) that a prehistoric trench was located in the limits of the stormwater runoff trench.		Stormwater runoff trench

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9	86+595	86+666	Ag. Varvara Myrinis	Karditsa Ephorate of Antiquities: 412/03.12.14 (J/V 20655) & 203638/120225/2201 /63/ 05.08.15 (J/V 22189)		Localization of findings on November 2014. Archaeological dig in progress. The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 4125/4/18.01.16 (J/V 23154) that the excavation works are expected to be completed up until the end of March 2016. The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 1424/318/19.05.16 (J/V 23808) about its proposal for release of the site of the drainage trench upon supervision by the Service of the excavation works and re-configuration of the slopes and exception from the total excavation of sections CH. 86+556,7 – 86+558,1 and CH. 86+558,8 – 86+561, where the degradation of the findings and the completion of the excavation are pending. The decision of the Central Archaeological Council (KAS) is pending.		Eastern Drainage Trench D279.
10	86+738		Ag. Varvara Myrinis	Karditsa Ephorate of Antiquities: 412/03.12.14 (J/V 20655) & 203638/120225/2201 /63/ 05.08.15 (J/V 22189)		Localization of findings on November 2014. Archaeological dig in progress. The Ephorate of Antiquities of Karditsa informed the J/V with its letter no. 4125/4/18.01.16 (J/V 23154) that the excavation works are expected to be completed up until the end of March 2016.		Trench D279

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4.3 ENVIRONMENTAL MONITORING

4.3.1 Waste Management

All types of waste are being managed based on the requirements of the Greek legislation for the environment and the environmental terms of the project. For the construction of the project, worksites manage waste in accordance with the directives for environmental management, which will be monitored by the Department for the Environment of the Joint Venture, until the completion of the Design - Construction Period.

The following table (table 4.3.1-1) presents the method of waste management as well as the quantities of waste which were ecologically managed within semester A' of 2016 under the construction of the project.

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Table 4.3.1-1:
Waste Disposal Table

Waste management outside the Installation								
Waste type (6-digit code E.W.C.)	Waste description according to the <u>European Waste Catalogue</u>	Quantity of waste the management of which was held outside the installation of the reference year (t)	Waste Collector Name	YPEHODE registration no. / Collector Licence no.	The relevant Identification forms for the collection and transportation are completed? (Yes/No)	Waste Reception Facility Name	Management work of the column waste quantity	Licence no.
130206 *	130206 * waste engine, gear and lubricating oils	6,33	CYTOP S.A. ELTEPE ENVIRONMENTAL		Yes	CYTOP S.A. ELTEPE ENVIRONMENTAL		60165/1724/4-12-2013
160107 *	160107 * oil filter	0,7	POLYECO	51662/4390/26 -09- 2013 YPEKA	Yes	POLYECO		EYPE 168510/31-05-2013
170405	170405 iron and steel	112.390	KEFALINAKIS S.A.		Yes	KEFALINAKHS S.A.		4066/166024/9-10-2013 Decentralized Administration of Central Greece – Thessalia
200301	200301 mixed municipal waste	6,2	Municipality of Trikala Municipality of Sofades Municipality of Karditsa					
TOTAL		125,62						
Waste storage within the Installation (Temporary storage)								
Waste type (6-digit code E.W.C.)	Waste description according to the <u>European Waste Catalogue</u>	Waste quantity stored within the installation during the reference year (t)	Quantity of stored waste from previous years (t)		Storage commencement year	Total quantity of stored waste from previous years and until the end of the reference year (t)		
160107 *	160107 * oil filter	0,4t	0,00		2016	0.5		
160103	160103 end-of-life tires	0.52t	0,00		2016	1.15		

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130206	Synthetic waste engine, gear and lubricating oils	0.2t		2016	0,2
160601	Lead batteries	37 unit (0,7t)		2016	0.7
160506 *	Laboratory chemicals consisting of dangerous substances or containing dangerous substances, indicating mixtures of laboratory chemicals	0.117lt		2016	0.117lt
TOTAL			0,00	2016	2.667



4.3.2 Air Pollution

A parameter control plan is applied in order to reduce impact on the community, on the natural environment, etc.

According to the Environmental Impact Assessment (EIA) of the road works, no excess of dust emission limit is expected greater than 20m from the works at all the length of the motorway under construction and worksite areas. However, all necessary measures to reduce dust emission are taken, such as water springing, filter bags etc.

Up to date, there are no complaints - reminders from the air pollution resulted by the construction of the project.

4.3.3 Vibrations

A parameter monitoring plan is under development in order to reduce impact on the community, on traffic, on public utility networks, etc. Up to date, there are no complaints - reminders from the vibrations resulted by the construction of the project. Also, all materials extraction sites proposed by the Construction J/V (excluding the borrow pits at Kokkalitsa – BP3N6), for the needs of the construction of the road project, do not require the use of explosives for their exploitation. Furthermore, all works producing strong vibrations are located at a long distance from the sensitive receivers.

4.3.4 Noise

The Construction Joint Venture monitors the noise emitted during the entire construction process, in order to ensure compliance with the applicable noise levels provided by law and, in the event of exceeding the limits, all required measures are taken.

As regards the noise, the existing institutional framework and the environmental requirements arising from the Design – Construction Agreement (Article 2.3 of the S.C.C. and 1.6 of the KME), and from the Environmental Terms (E.T.) of the project “Central Greece Motorway E-65” for Lamia – Makrihori section (CH. 0+000 – CH. 85+800) and Makrihori – Kalampaka section (CH. 85+800 – CH. 137+550) (S1 and S2) (JMD 144504/18-11-2005 and JMD 145521/18-11-2005):

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- P.D. 1180/81 (OGG 293/A/6-10-81). Regarding the regulation of issues relating to the establishment and operation of industries, crafts, mechanical engineering and warehouses of all kinds, and the safeguarding of the environment in general.
- M.D. 2640/270 (OGG 689/B/18-8-78). For the purpose of use of stranded airbags.
- M.D. II-5η/Φ/17402/84 (OGG 931/B/84). Regulation of Metal and Quarry Works.
- M.D. 56206/1613 (OGG 570/B/9-9-86). Determination of the noise emission worksite machinery and devices in compliance with directives 79/113/EEC, 81/1051/EEC and 85/405/EEC.
- M.D. 56206/1613 (OGG 570/B/9-9-86). Determination of noise emission of the worksite machinery and devices in compliance with directives 79/113/EEC, 81/1051/EEC and 85/405/EEC.
- M.D. 56206/1613 (OGG 570/B/9-9-86). Determination of noise emission of the worksite machinery and devices in compliance with directives 79/113/EEC, 81/1051/EEC and 85/405/EEC.
- M.D. 56206/1613 (OGG 570/B/9-9-86). Determination of noise emission of the worksite machinery and devices in compliance with directives 79/113/EEC, 81/1051/EEC and 85/405/EEC.
- M.D. 56206/1613 (OGG 570/B/9-9-86). Determination of noise emission of the worksite machinery and devices in compliance with directives 79/113/EEC, 81/1051/EEC and 85/405/EEC.
- M.D. 69001/1921 (OGG 751/B/18-10-1988). EEC type-approval for the noise level limit of machinery and workstations, in particular motor-driven compressors, tower cranes, welding and power generating sets, and portable concrete breakers and airbags.
- M.D. 765/91 (OGG 81/B/91). Determination of the noise level limit values of rope-operated hydraulic excavators, dozers, loaders, and excavatorloaders.
- M.D. 85/91 (OGG 38 A/18-3-91). Protection of the workers against risks due to their exposure to noise during working times, in compliance with directive 86/188/EEC.
- M.D. 17252/92 (OGG 395 B/19-6-92). Determination of noise indices and maximum limit that comes from traffic in road and transportation projects.
- Police regulations no. 3/96 (OGG 15 B/12-6-96). Measures for compliance with quit times (Amended by the OGG 180 B/22-2-01, corrected by the OGG 413/B/11-4-01).

As regards the noise limits, Article 2, par. 5, of the P.D. 1180/81 identifies the maximum permissible noise limit, emitted by installations, as listed in the following Table, measured at the property boundaries where the installation is situated.

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Table: Maximum permissible noise limit from installations (P.D. 1180/81)

Area	Maximum noise limit, dB(A)
Legalized Industrial Areas	70
Areas where the predominant element is industrial	65
Areas that are equally industrial and urban	55
Areas where the predominant element is urban	50

Based on P.D. 1180/81, the urban element is absent in the immediate area of works at E-65 and 65 dB (A) is allowed as the permissible noise limit.

To record noise during the construction stage, measures were taken during the period from 02-2016 to 05-2016. At this time period, the work fronts to which measurements were performed are the following:

- Excavation works at CH. 58+000 (Anavra settlement)
- Construction works at CH. 53+800
- Construction – restoration works at former ΧΑΔΑ (site for uncontrolled disposal of waste) at CH. 108+500 at the Municipality of Trikkaia.

The specific measurements feature sampling of noise emissions during the construction works.

The above mentioned measurements record the noise emitted during the operation of the machines at the worksites.

For the execution of the noise emission measurements, the following instruments of a CASTLE type 2 Integrating precision Echo meter, model GA 216 I were used, in compliance to IEC61672-1-2002 specifications and an Echo meter calibrator CASTLE GA 601.

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The aim of noise measurement is to record noise emissions from the construction works in conjunction with the possible points of increased noise, in order to take all noise protection measures required. For the specific aim, at every measurement the Leq noise indices were recorded: Equivalent constant sound level (in compliance to IEC 651) in dB (A).

The time period of the sampling noise measurements was 7-10 min; that is the time required to fully record the noise incident.

The sampling measurements were taken in the perimeter of each work spot (location A1) and at a distance of 200m (location A2) during the operation of various types of machines. The purpose of these measurements was to record the acoustic environment that includes noise caused by the construction and noise caused by other sources, which may affect adversely the adjacent to the worksite areas and the structure faces there.

The noise measurement locations as regards the construction fronts are shown at the horizontal alignment of the project "Aftokinitodromos Kentrikis Elladas E-65". Their choice has been made based on the characteristics of a typical worksite operation day.

4.3.4.1 Results of sampling measurements

During the noise emission measurements, smooth atmosphere conditions were observed, whereas no other source of noise was detected with the exception of the usual ambient noise and the worksite sources, except for the worksite

The average atmosphere conditions during the noise measurements were the following:

- ┐ Temperature from 12 to 33o C
- ┐ Sunlight
- ┐ Weak winds

The results of the measurements are presented in the following tables per section and per construction front.

The location related to point A1 is located at a distance of approximately 250m from the excavation front and at a point where there is and operates a Restaurant/Taverna.

CH. 53+800

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MAP POINT	COORDINATES		RESULT (dB)
	X	Y	
A1	335912	4335442	65,9

The location related to point A2 is located at a distance of approximately 400m from the excavation front and approximately 450m from the nearest settlement of Anavra. Therefore, the settlement of Anavra is about 1 km. far from the source causing the noise.

TRENCH - CH. 58+500			
MAP POINT	COORDINATES		RESULT (dB)
	X	Y	
A1	331320	4339377	58,8
A2	334511	4339379	55,0

In this particular structure face, restoration works of former site for uncontrolled disposal of waste (XΑΔΑ) are carried out with stone columns. At a distance of approximately 100m, there are installations but there is no limit exceedance.

BRIDGE - CH. 108+500			
MAP POINT	COORDINATES (Hellenic Terrestrial Reference System 87)		RESULT (dB)
	X	Y	
A3	312102	4379579	67,2

According to the results of the above mentioned measurements, the noise emitted due to various construction works doesn't affect any area close to the works. All works following the measurements carried out, were performed based on the applicable limits provided by the standing legislative framework, as well as from the Environmental Terms of the "Aftokinitodromos Central Greece Motorway E65" project for Lamia – Makrihori

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section (CH. 0+000 – CH. 85+800) and Makrihori – Kalampaka section (CH. 85+800 – CH. 137+550) (S1 and S2) (JMD 144504/18-11-2005 and JMD 145521/18-11-2005).

The noise measurements will continue to occur throughout the construction phases so that, in case of limit exceedance, to take the necessary noise protection measures.

Up to date, there are no complaints - nuisances from the noise resulted by the construction of the project.

4.3.5 Water resources

All measures related to the prevention of pollution - burden to the waters through methods of good worksite practice and their monitoring, under the Program of Environmental Monitoring and Control, are taken. For the specific purpose, holding tanks connected to oil removers have been developed at various worksites aiming to the monitoring of the perimeter at the source of pollution (runoff tanks). PH measurements at the exit of the tank and at its confluence to the natural recipient showed that the PH of the waters of the natural recipient remains stable.

At the protection of the water resources framework, specialized risk assessment studies for the treatment of accidental pollution and the avoidance of pollution of ecologically sensitive wetlands of:

- Sperchios river
- Kalentzi river
- Pinios river
- Reservoir of Smokovo
with oils or hazardous substances.

Also, in the protection of the water resources framework during the development of the project phase, a series of measures are taken, featuring the operation of oil removers, settling tanks, biological cleaning, chemical toilets, etc.

Finally, the use of hazardous substances is limited to the minimum required, as is the case with other substances that may alter the qualitative characteristics of the water sources.

CENTRAL GREECE MOTORWAY (E-65)



4.3.6 Natural Environment

During the construction, the Construction J/V applies a special monitoring program for wildlife under the Environmental Terms of the Project. The results of the monitoring program are submitted quarterly to the Division of Environmental Planning of YPEKA.

It is noted that the monitoring program includes:

- A) The preparation of a new program by the J/V – E-65 (Contractor: NGO Callisto) during 2009 – 2010, for E-65 from CH. 43+000 – CH. 60+000 and
- B) Update of the proposals which had been expressed for E-65 from CH. 20+000 to CH. 47+000 approximately, in the framework of the “Monitoring Program of the wolf and the big mammals”, drawn up on 2005 - 2006 by ERGOSE for the project of the New rail line between Lianokladi RS - Domokos RS (Contractor: D. Argyropoulos, SSE EPE, GAMMA4 EPE and G. Giannatos with Callisto NGO as a special partner), due to the proximity of the two projects and their synergistic consequences. The update of the proposals for CH. 20+000 to CH. 43+000 was based on the data of ERGOSE program (2005 - 2006) as well on the new data (works and methods of field, results – analysis, literature reviews) resulted by the preparation of the E-65 J/V (2009 - 2010) program.

Also, the monitoring program takes into consideration the data resulted by the preparation of corresponding programs in the broader area. Particularly in the north part of the area of the project, a relevant monitoring program of the wildlife has been developed (first phase) under Egnatia Odos SA responsibility. It has to be noted that the works in the north part of the project area didn't start yet, since the section is under suspension following the temporary order on behalf of the Council of State.

The ultimate goal of the above is the most comprehensive handling of the effects caused by the large infrastructure projects in the ecosystem (fauna) of the project area. Two most recognized non-governmental organizations, 'Arcturus' and 'Callisto' are also involved in the overall effort.

4.4 ENVIRONMENTAL ACCIDENT

There is a prediction for management and dealing with incidents of “fire in vegetation”, as well as environmental accident, i.e. leakage of substances etc.