

CENTRAL GREECE MOTORWAY (E-65)



1. INTRODUCTION

This Environmental Management Report is the approach of the Construction J/V's Environmental Management Process for the first semester of 2014 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 - OGG 3445A/25-07-2007).

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

Also, it has to be noted that this report constitutes a development/improvement of the structure of previous retrospective reports and it is clear that the purpose of this development/improvement is the best way of addressing environmental issues. The ongoing Environmental Management Plan of the project, which is characterized by its continuous improvement, plays an important role in this development.

This Semi-annual Environmental Management Report refers to the first semester of 2014 (01.01.2014 to 30.06.2014).

1.1 DESCRIPTION OF THE PROJECT

State: Hellenic Republic

Concessionaire: CENTRAL GREECE MOTORWAY S.A.

Construction J/V: CENTRAL GREECE MOTORWAY (E65) J.V.

Independent Engineer: URS - OMEK

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The scope of the project includes the 'Design, Construction, Financing, Operation Maintenance and Use of Central Greece Motorway (E65) for thirty (30) years in accordance with the respective Concession Agreement:

- (i) Central Greece Motorway (E65) with a length of 190.5 km from PATHE semi-junction to Egnatia I/C and
- (ii) Skarfia - Raches section of the PATHE motorway with a total length of approximately 57 km

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 PATHE semi-junction (CH. 203+000) and ends at Egnatia Odos, crossing the prefectures of Fthiotida, Karditsa, Trikala and 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. 190+456
- Thermopiles I/C at CH. 203+065
- Roditsa I/C at CH. 212+575
- Ag. Paraskevi I/C at CH. 217+400
- Ag. Marina I/C at CH. 223+320
- Stylida – Karavomilos I/C at CH. 231+868

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- Raches I/C at CH. 242+079

2 semi-junctions:

- PATHE semi-junction ~ CH. 207+0234
- Anthili semi-junction ~ CH. 209+984

B. E65 motorway

17 Junctions

- 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+000
- Egnatia I/C ~ 190+500

6 Frontal & 16 Lateral Toll Stations

a. Frontal toll stations

E-65 motorway

- 4 Frontal Toll Stations

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PATHE Motorway

- 2 Frontal Toll Stations
 - o Agia Triada CH. 194+958
 - o Mavromantila CH. 220+550

b. Lateral Toll Stations

E65 Motorway

- In 3 Interchanges

PATHE Motorway

- Molos I/C at CH. 199+456
- Thermopiles I/C at CH. 203+065
- Agia Marina I/C at CH. 223+320
- Karavomylos I/C at CH. 231+868

5 Motorist Service Stations (MSS)

- Lianokladi at CH. 12+400
- Ksiniada at CH. 43+200
- Sofades at CH. 69+950
- Trikala at CH. 116+600
- Karpero ~ CH. 164+000

3 Operation & Maintenance Centers

(Maintenance, Fire Brigade and Police Buildings)

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

6 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

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- 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+500

27 Bridges > 50m.

- Bridge of an approximate length of 102 m. at CH. 20+936
- Bridge of an approximate length of 89 μ (A) και 68 m. (Δ) at CH. 21+513
- Bridge of an approximate length of 122 m. at CH. 24+025
- Bridge of an approximate length of 67, 50 m. at CH. 24+700
- Bridge of an approximate length of 137 m. at CH. 25+365
- Bridge of an approximate length of 310 m. at CH. 26+475 (A), 241 m. at CH. 26+450 (Δ)
- Bridge of an approximate length of 92 m. at CH. 31+750
- Bridge of an approximate length of 70 m. at CH. 48+256
- Bridge of an approximate length of 160 m. at CH. 49+078
- Bridge of an approximate length of 295 m. at CH. 51+103
- Bridge of an approximate length of 150 m. at CH. 54+073
- Bridge of an approximate length of 150 m. at CH. 55+313
- Bridge of an approximate length of 51.5 m. at CH. 70+420
- Bridge of an approximate length of 92 m. at CH. 89+919 (Kalentzis river)
- Bridge of an approximate length of 587 m. at CH. 103+675 (Pinios river)
- Bridge of an approximate length of 74 m. at CH. 110+509 (Trikala – Larissa N.R.)
- Bridge of an approximate length of 67 m. at CH. 122+998 (Kalampaka – Larissa N.R.)
- Bridge of an approximate length of 80 m. at CH. 144+200
- Bridge of an approximate length of 100 m. (A) and 80 m. (Δ) at CH. 145+500
- Bridge of an approximate length of 50 m. at CH. 149+065

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- Bridge of an approximate length of 100 m. at CH. 149+895
- Bridge of an approximate length of 50 m. at CH. 152+511
- Bridge of an approximate length of 55 m. at CH. 153+910
- Bridge of an approximate length of 150 m. at CH. 155+420
- Bridge of an approximate length of 150 m. at CH. 169+385
- Bridge of an approximate length of 275 m. at CH. 171+935
- Bridge 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 analyzed into Groups of similar operations.

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
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	

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

Optimization	Optimization Category	Section	Environmental Licensing	Ministerial Decision approving Optimization
Typical Cross-section	Modification	0+000 - end	Pending from 137+500 to the end	8938/30.10.2008
CH. 30	Modification	28+000 - 32+000	Resubmitted	
CH. 48+000 – CH. 56+000	Modification	48+000 - 56+000	Sections 52+000 – 56+000 and 47+000 – 52+000 have been resubmitted Section 52+000 – 56+000 has been approved	2036/29.11.2010
Relocation of Kalampaka MSS CH. 132+000 to Trikala MSS CH. 117+000	Modification	117+000 & 132+000	Resubmitted	
Loggos semi-junction	New object	105+980	Approved	2036/29.11.2010
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	

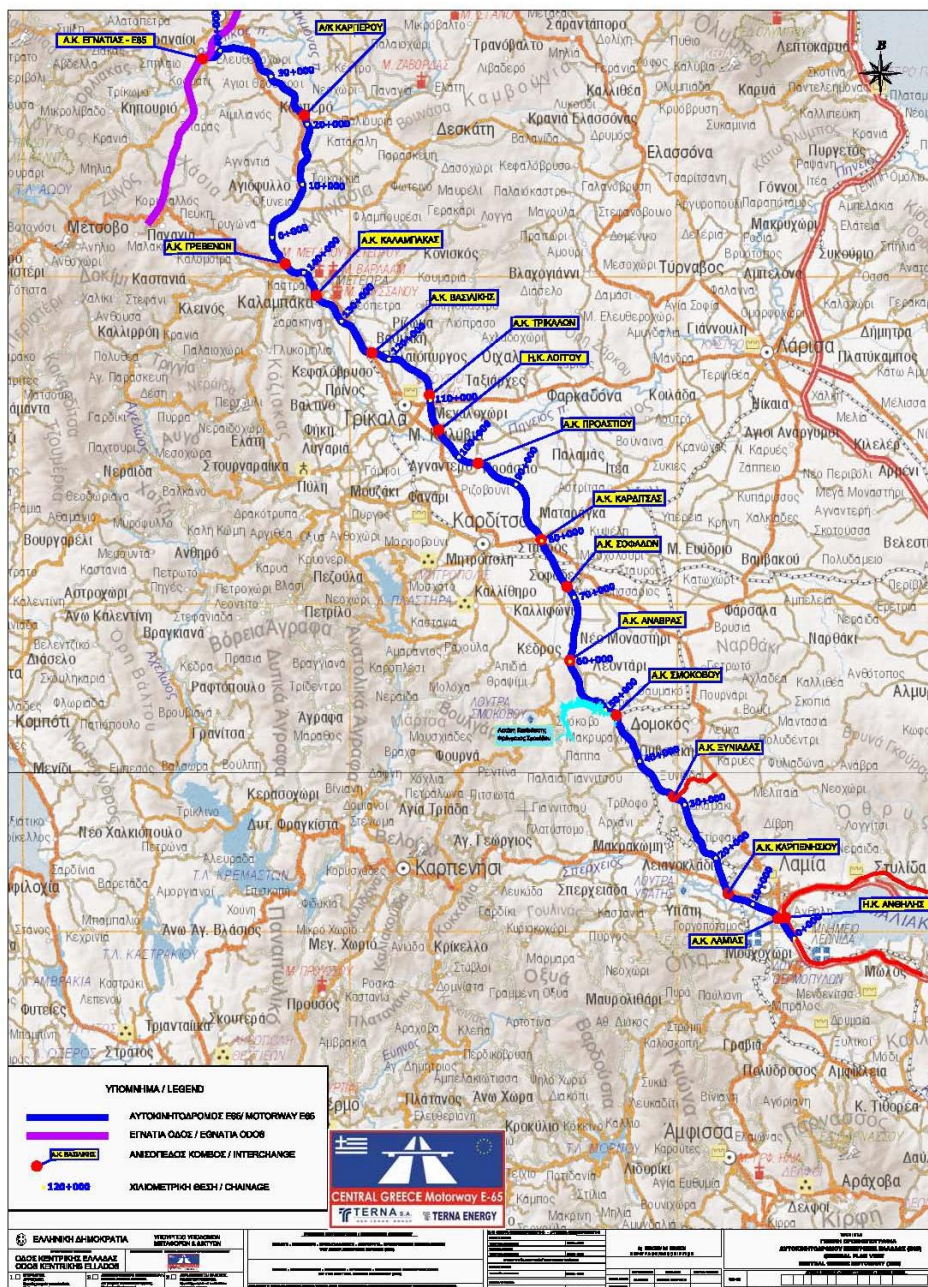
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Optimization	Optimization Category	Section	Environmental Licensing	Ministerial Decision approving Optimization
Widening U/P 59.1 (Kedros - Anavra) from 10.5m to 13.00m	Modification	59+900	Approved	
Widening U/P G024 (Karditsomagoula – Ag. Triada - Proastio) from 10.5m to 13.00m.	Modification	96+013	Approved	
Changing cross-section width of 4 culverts	Modification	122+190	Approved	
		122+280	Approved	
Connecting branch towards Ksiniada I/C	New object	32+000	Preparing submission	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:

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



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According to the approved environmental terms of the project, the Central Greece Motorway (E65) is divided in the following three sections:

Section	From CH.	To CH.	A.E.T. Decision*
1 st Section	0+000	85+800	<p>Joint Ministerial Decision</p> <p>A.E.T. 167266/01.04.2013 (YPEKA Gen. Director decision with prot. no. 144504/18.11.2005 JMD A.E.T)</p> <p>M.D. 173471/23.06.2014 (Amendment Decision of AET JMD 144504/18.11.2005)</p>
2 nd Section	85+800	137+550	<p>Joint Ministerial Decision A.E.T. 145521/18.11.2005</p> <p>YPEKA Gen. Director decision with prot. no. 172041/26.11.2013 (Amendment of JMD A.E.T. 145521/18.11.2005)</p> <p>YPEKA Gen. Director decision with prot. no. 172041/26.11.2013 (Amendment of JMD A.E.T. 145521/18.11.2005)</p> <p>YPEKA Gen. Director decision with prot. no. 203583/04.12.2012 (Amendment of JMD A.E.T. 145521/18.11.2005)</p>
3 rd Section	137+550	175+000	<p>Joint Ministerial Decision A.E.T. 147014/18.11.2005</p>

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The above State New Sections, pursuant to the relevant environmental terms, are divided into five sections, as stated below:

Section	FROM CH.	TO CH.	A.E.T. Decision	Description
Skarfia – Thermopiles in Skarfia – Lamia section of PATHE motorway	Skarfia 179+300 (NEW)	Thermopiles 196+750 (NEW)	JMD 146113/12.07.2005	From OSE (Hellenic Railway Corporation S.A.) Bridge – 250m. NW Edge beginning of Thermopiles I/C 17,5km.
			JMD 126696/06.06.2007	Amendment of the JMD 146113/12.07.2005
			122881/08.03.2010 EYPE/YPEKA	Environmental Licensing of Ag. Triada & Molos I/C Toll Stations
“Optimization of the National Road to a PATHE motorway in Skarfia – Lamia section, subsection from the beginning of Thermopiles I/C to Nea Kiti of Sperchios river”	Thermopiles I/C 198+300	Nea Kiti of Sperchios River	JMD 131550/04.05.2003	8,8km.
			121668/08.02.2010 EYPE/YPEKA	Environmental Licensing of Thermopiles I/C Toll Station
“Optimization of the National Road to a PATHE motorway, section from Nea Kiti of Sperchios river to Roditsa I/C”	Nea Kiti of Sperchios River	Roditsa I/C	JMD 146109/30.09.2005	3,78km. From 130m. before the axis of the New Kiti of Sperchios River up to the East

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Section	FROM CH.	TO CH.	A.E.T. Decision	Description
				of Roditsa village
“Optimization of Athens – Thessaloniki National Road in PATHE motorway, Lamia – Raches section, subsection from CH. 3+500 to CH. 12+000”	3+500	12+000	JMD 130665/02.05.2003	8,5km. From 211+000
			JMD 195214/11.01.2011	Amendment of 130665/02.05.2003
“Overall Bypass at Stylida – Karavomilos”	12+000	31+500	JMD 100198/30.05.2006	19,50km. From New National Road to the western edge of RACHES I/C
			121667/08.02.2010 EYPE/YPEKA	Environmental Licensing of Ag. Marina I/C - Stylida I/C & Stylida I/C & Karavomilos Toll Stations

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2. GENERAL ISSUES

2.1 BRIEF REPORT

This semiannual report covers the period from January 01, 2014 to June 30, 2014, 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 269A/11.12.2013.

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).

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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 TERN A S.A. and TERN A-ENERGY S.A.

The J/V restarted the project construction works. The first forth months consist of the recommencement, restructuring and recovering period of the worksites, submission of designs, land registries and applications for licensing of the approved optimizations, occupation of sites given during the works suspension period and the recovery period of the already constructed sections integrated in the amended object of the T1 Design – Construction Period.

2.1.1 Report period

At the reporting date of this report (30.06.2014), the main issues of the Public Utility Networks involved with the project, are the following:

TABLE OF BLOCKAGES WITH HIGH-VOLTAGE PYLONS

SN	Implementation entity	CH.	Number of Pylons	Identification of Passage - Relocation	Remarks
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SN	Implementation entity	CH.	Number of Pylons	Identification of Passage - Relocation	Remarks
	Independent Power Transmission Operation	High Voltage			
KSINIADA-TRIKALA SECTION					
1		29+700-31+000	3	Relocation within the 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.
2		31+150-32+000	3	Relocation within the Ksiniada I/C road zone	
3		33+200	2	Passage over the arterial road	
4		35+100	2	Relocation of the left pylon within the road zone. Passage over the arterial road	
5		37+550	2	Passage over the arterial road	
6		38+150-38+350	2	Blockage with the high-voltage network	
7		104+355	2	Passage over the arterial road	
8		110+100	2	Relocation within the arterial road and passage from arterial road A	
Sub-total		Pylons	18	Passages	4
Total		Pylons	18	Passages	4

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TABLE OF BLOCKAGE WITH LOW/AVERAGE-VOLTAGE PYLONS

SN	Implementing Entity	CH.	Number of Pylons	Identification of Passage - Relocation	J/V prot. no.
LOW/AVERAGE VOLTAGE/LIGHTING					
Skarfia Thermopiles PATHE					
1	Lamia PPC	State New Section side road SRD1 CH. 10+270	1	Relocation	J/V Request on 14.03.2014. Resubmission of network relocation request on 09.05.2014
TOTAL of blockages			PPC lighting pylons	1	
CH. 29+500 – XCH. 111+000					
2	Lamia PPC	30+000- 44+000	40	Relocation	16025/21. 02. 2014
3	Karditsa PPC	48+000	1	Relocation	15987/17. 02. 2014

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S/N	Implementing Entity	CH.	Number of Pylons	Identification of Passage - Relocation	J/V prot. no.
4	Trikala PPC	109+700-110+500	20	Relocation	Relocation request on 09.05.2014 – Response on 23.05.2014 from HEDNO (Hellenic Electricity Distribution Network Operator) that it has to be requested by the owners. There is a design. J/V response on 03.06.2014 for relocation due to expropriation.
5	Region of Thessaly Technical Services Directorate – R.U. of Karditsa	54+000	5	Relocation	J/V request on 17.02.2014.
TOTAL of blockages			PPC lighting pylons	66	
TOTAL of blockages			PPC lighting pylons	67	

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TABLE OF TELECOMMUNICATIONS - PUOs BLOCKAGES

A/A	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 blockage of the networks 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	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 blockage of the networks with the U/P E-65. Requesting from Egnatia to proceed with their relocation.

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AIA	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
3	Lamia Hellenic Telecommunications Organisation (OTE) Body investigation is needed	33+850-33+920		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 blockage of the networks with the U/P E-65. Requesting from Egnatia to proceed with their relocation.
4	Lamia Hellenic Telecommunications Organisation (OTE)	42+700-42+750		Relocation of OTE underground network	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 blockage of the networks with the U/P E-65. Requesting from Egnatia to proceed with their relocation.
CH. 48+145 – CH. 111+000					

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A/A	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
5	Trikala Hellenic Telecommunications Organisation (OTE)	109+300-109+500		Relocation of OTE underground network	16571/09. 05. 2014 Reference made on the blockage of the networks with the U/P E-65. Requesting from Egnatia to proceed with their relocation.
OTE					
PATHE Skarfia – Thermopiles					
6	Lamia Hellenic Telecommunications Organisation (OTE)	Skarfia Thermopiles PATHE Side Road SRD1	9	Relocation	16119/14.03.2014
7	Karditsa Hellenic Telecommunications Organisation (OTE)	75+915 VERTICAL ROAD KO21		Relocation of OTE underground network	442/19.09.2008 Answered by 582/13.10.2008 New application 16397/05.05.2014
TOTAL			Pylons	9	
IRRIGATION					
CH. 29+500 – CH. 111+000					

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AIA	Implementation Entity	CH.	Number of Pylons	Identification Passage - Relocation	Remarks
8	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 blockage of the networks with the U/P E-65. Requesting from Egnatia to proceed to their relocation.
9	Municipality of Thessaliotida	47+950-48+050 affecting the branches of Smokovo semi-junction		Relocation of irrigation network	421/19. 09. 2008 Answered by 7260/26. 09. 08 (J/V535, 08. 10. 08) of the Municipality of Thessaliotida. Mission of capturing the Municipality's networks

2.1.2 Problems and possible risks

- Delays due to the delayed relocation of Public Utility Organizations
- Delays due to the lack or rejection of the appropriate borrow pits/quarries, as up to now a number of such sites have been rejected by the

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Archaeological & Forest Services. Also delays of the competent Service to reply to our submissions.

- Delays in the construction of tolls in G.U. 15S/W due to non-expropriations in the construction sites of Mavromantila tolls. Possible delays in the progress of the works of SRD1 due to non-relocation of PPC network in CH. 10+270.

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.

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 amendments of the main road project, etc., for which the contractor of the Project is responsible.

It is noted that in 2014 the progress in the legislative work of YPEKA continues, as regards the Environmental Legislation. It is significant that the way of projects' environmental license and activities as well as the environmental control system have been reset (Law 4014/2011 - OGG 209A/21.09.2011). The new legislative framework aims to provide effective protection of the environment while reducing

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the time required to process and the number of projects requiring environmental authorization so that the EU average to be approached. Moreover, it develops a “red line” on illegal construction so as to be effectively combated in the future and the environmental balance in the existing exceedances that can and should be addressed, to be restored.

The validity of that law is implemented by the Ministerial Decision 1958/13.01.2012 of YPEKA (OGG 21V/13.01.2012) “*Classification of public and private projects and activities into categories and subcategories according to Article 1, paragraph 4 of Law 4014/21.09.2011 (OGG A’ 209/2011)*”

The legislative work of YPEKA for the first semester of 2014 is set out in the table below.

Legislative work A’ semester 2014

Date	Number	Subject
<u>LAWS & PRESIDENTIAL DECREES</u>		
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<u>DECISIONS & CIRCULARS</u>		
14.01.2014	JMD with prot. no. oik.145026 (OGG 31B/14.01.2014)	Establishment, management and operation of the National Register of Water Supply Points from Surface and Underground Water Bodies.
15.01.2014	JMD with prot. no. oik.1649/45 (OGG 45B/15.01.2014)	Specialization of the consultation procedures, the techniques to inform the public and the participation of the interested public in the public consultation against the Category A’ environmental licensing of the projects and activities of the Minister of Environmental, Energy and Climate Change decision no. 1958/2012 (OGG A’ 21).

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Date	Number	Subject
27.01.2014	Decision with prot. no. oik.170225 (OGG 135B'/27.01.2014)	Specialization of the content of the files concerning the projects' environmental licensing and activities of Category A' of the Minister of Environment, Energy and Climate Change decision no. 1958/2012 (OGG A').
	JMD 30651/23.06.2014 (OGG 1817B'/02.07.2014)	Specialization of the specifications, of the way in which the procedures and licenses of the electronic access and information input are provided and maintained, as well as any necessary detail for the organisation, implementation and operation of the Electronic Environmental Registry.

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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 is currently at the submission phase to EYPE/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.

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:

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- 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.

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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 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 EYPE/YPEKA.

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

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

No.	Ancillary work	Area	Submission to EYPE (ref. no. EYPE)	EYPE's Decision	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 Faloria, Prefecture of Trikala	140546/04.06.2009	140546/29.07.2009	STIS approval
9.	STIS Review Borrow Pit "AERODROMIO" (BP6N1)	Kefalovryssos, Municipality of Faloria, 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 EYPE (ref. no. EYPE)	EYPE's Decision	Comments (approval, re- submission- rejection, etc.)
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/ 10.11.2011	STIS approval
			Resubmission 14076/16.06.2011 (J/V No.)		
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 EYPE (ref. no. EYPE)	EYPE's Decision	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 "Ohiro" 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	CH. 56+000 – CH. 90+000	13323/01.04.2011		Submission of Environmental

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No.	Ancillary work	Area	Submission to EYPE (ref. no. EYPE)	EYPE's Decision	Comments (approval, re-submission-rejection, etc.)
	under the project "Landscape Planting - Irrigation and Rehabilitation for the CH. 56+000 – CH. 90+000 of the Central Greece Motorway (E65)".		(J/V decision no.)		Impacts Pre-study Expected to be approved
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	---	Expected to be approved
32.	STIS/ EIS. Borrow pit in "Fournia" position (BP342)	Makryrachi, 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 approval
33.	STIS. Lateral Toll Station in CH. 60+200	Anavra, Municipality of Sofades, Prefecture of Karditsa	204541/ 27.10.2011	---	Concessionaire's claim to our J/V for the review of the horizontal alignments and compliance with Design-Construction Agreement of the project, so as to promote environmental licensing (protocol No. 15046/06.04.2012)
34.	STIS. Operation and Maintenance Centre in CH. 69+700	Municipality of Sofades, Prefecture of Karditsa	204544/ 27.10.2011	---	Expected to be approved
35.	STIS. Frontal Toll Station and station's administration building in CH. 65+650	Municipality of Sofades, Prefecture of Karditsa	204543/ 27.10.2011	---	Expected to be approved
36.	STIS/EIS. Borrow pit in Agios Stefanos position (BP345)	Agios Stefanos, Municipality of Ksiniada, Prefecture of Fthiotida	204863/ 08.11.2011 STIS submission	MD 171820/01.04.2014	EYPE/YPEKA has returned the STISs with prot. no.

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No.	Ancillary work	Area	Submission to EYPE (ref. no. EYPE)	EYPE's Decision	Comments (approval, re-submission-rejection, etc.)
			15482/21.12.2012 (J/V prot. no.) EIS submission		200811/20.07.2011 and asked for the submission of EIS according to Law 4014/2011. EIS approval
37.	EIS borrow pit in "Kokalitsa" position of the Makryrachi, Municipality of Fthiotida (BP3N6)	Makryrachi, Municipality of Domokos, Prefecture of Fthiotida	18752/18.06.2012 EIS submission	---	Expected to be approved

Within the second semester of 2014, 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
- ΙΔ Service of Prehistorical and Classical Antiquities
- ΛΔ Service of Prehistorical and Classical Antiquities
- Λ Service of Prehistorical and Classical Antiquities
- 19th Service of Byzantine Antiquities
- 24th Service of Byzantine Antiquities
- 17th Service of Byzantine Antiquities
- Regional Section of Fthiotida
- Regional Section of Karditsa

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- Regional Section of Trikala
- Regional Section of Grevena
- etc.

The relevant correspondence is presented below.

1. Our J/V informed the Forestry of Trikala on the recommencement of the works and requested for the alerting of the Forestry to remove the existing trees in Pinios River (21.01.2014).
2. Our J/V, within the framework of the recommencement of the works, applied to the Forestry of Karditsa for the extraordinarily use 9 acres of the area of CH. 54+000 (21.01.2014).
3. Our J/V informed the Forestry of Karditsa on the recommencement of the works and requested for the alerting of the Forestry to remove the existing trees in the area of Pinios River (23.01.2014).
4. Our J/V, within the framework of the environmental design, in accordance with Article 6 of Law 4014/2011, as for the amendments in CH. 31+000 – CH. 85800,
 - Requested for the 19th EIS relevant opinion (J/V prot. no. 15883/ 27.01.2014)
 - Requested for the 24th EIS relevant opinion (27.01.2014)
 - Requested for the Karditsa Forestry opinion (27.01.2014)
 - Requested for the Lamia Forestry opinion (27.01.2014)
 - Requested for the ΙΔ Ephorate of Prehistoric and Classical Antiquities opinion (27.01.2014)
 - Requested for the ΛΔ Ephorate of Prehistoric and Classical Antiquities opinion (27.01.2014)
 - Requested for the Thessalia Service of Modern Monuments opinion (27.01.2014)

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- Requested for the Thessalia Service of Modern Monuments opinion (27.01.2014)
 5. Our J/V informed the 24th EIS on the recommencement of the works and requested for the duly alerting of the Service given that the immediate commencement of the works in CH. 32+500 – CH. 41+000 (29.01.2014) is in sight.
 6. Our J/V informed the ΙΔ Ephorate of Prehistoric and Classical Antiquities on the recommencement of the works and requested for the duly alerting of the Service given that the immediate commencement of the works in CH. 32+500 – CH. 41+000 (29.01.2014) is in sight.
 7. Our J/V request to the Lamia Forestry for an opinion on the creation of an aggregate material borrow pit in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida (code BP3N6) (07.02.2014).
 8. Our J/V request to the 24th EIS for an opinion on the creation of an aggregate material borrow pit in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida (code BP3N6) (07.02.2014).
 9. Our J/V request to ΙΔ Ephorate of Prehistoric and Classical Antiquities for an opinion on the creation of an aggregate material borrow pit in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida (code BP3N6) (07.02.2014).
 10. In response to our J/V request dated 27.01.2014, ΙΔ Ephorate of Prehistoric and Classical Antiquities submitted a positive opinion on the construction of the motorway, CH. 31+000 – CH. 39+000 section (10.02.2014).
 11. In response to our J/V request dated 27.01.2014, the 19th EIS submitted a positive opinion on the construction of the motorway, CH. 39+000 – CH. 47+000 and CH. 52+000 – CH. 85+800 sections (10.02.2014).
 12. In response to our J/V request dated 27.01.2014, ΛΔ Ephorate of Prehistoric and Classical Antiquities submitted a positive opinion on the construction of the motorway, CH. 39+000 – CH. 47+000 and CH. 52+000 – CH. 85+800 sections (10.02.2014).
 13. Environmental Report submission in accordance with Article 6 of Law 4014/2011 on the determination of the environmental licensing

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- of the final design of the Central Greece Motorway (E65) in Lamia – Makrihori section (JMD Environmental Terms Approval 144504/18.11.2005), CH. 31+212 – CH. 85+800 subsection (excluding CH. 47+313 – CH. 51+843) from our J/V to the Concessionaire (18.02.2014).
14. In response to our J/V request dated 27.01.2014, the Lamia Forestry requested for the submission of additional information, in order to submit an opinion on the construction of the motorway, CH. 31+000 – CH. 39+000 section (20.02.2014).
15. In response to our J/V request dated 27.01.2014, the 24th EIS submitted a positive opinion on the construction of the motorway, CH. 39+000 – CH. 47+000 and 52+000 – CH. 85+000 sections (24.02.2014).
16. In response to our J/V request, the Thessalia Service of Modern Monuments submitted a positive opinion on the construction of the motorway, CH. 39+000 – CH. 47+000 and 52+000 – 85+800 sections (24.02.2014).
17. In response to our J/V request dated 27.01.2014, the Thessalia Service of Modern Monuments submitted a positive opinion on the construction of the motorway, CH. 31+000 – CH. 39+000 (24.02.2014).
18. Our J/V submitted to the Forestry of Lamia a characterization act on the area of the suggested aggregate material borrow pit in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida (code BP3N6) (28.02.2014).
19. In response to our J/V request dated 07.02.2014, the 24th EIS submitted a positive opinion on the construction of the aggregate material borrow pit in ‘Kokalitsa’, at Makryrachi, Prefecture of Fthiotida (code BP3N6) (28.02.2014).

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20. In response to our J/V request dated 21.01.2014 to the Forestry of Trikala, the logging in the area of Pinios River (20.02.2014) has been approved as an extraordinary profit.
21. In response to our J/V request dated 23.01.2014 to the Forestry of Karditsa, the logging in the area of Pinios River (27.02.2014) has been approved as an extraordinary profit.
22. Our J/V request to the Concessionaire on the issuance of a Certificate of additional site necessity (quarry for aggregate material) in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida for the Project construction needs (Makryrachi Borrow Pit 2 – code BP3N6) (05.03.2014).
23. Following our J/V request dated 07.02.2014, the J/V sent a new request to the 24th EIS to submit an opinion for the creation of an aggregate material borrow pit in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida, with updated limits (code BP3N6) (12.03.2014).
24. In response to our J/V request dated 07.02.2014, the 24th EIS with prot. no. 471/27.02.2014 submitted a positive opinion (12.03.2014).
25. In response to our J/V request dated 05.03.2014 sent to the Concessionaire, the Independent Engineer issued a Certificate of additional site necessity (quarry for aggregate material) in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida for the Project construction needs (Makryrachi Borrow Pit 2 – code BP3N6) (12.03.2014).
26. Our J/V request to the Municipality of Pyli for the conclusion of a lease agreement between the Municipality of Pyli and our J/V for the borrow pit area in “Vrontaria”, Municipality of Pyli, Prefecture of Trikala (code BP6N2) (12.03.2014).

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27. Following our J/V request dated 27.01.2014 submitted to the 19th EIS for an opinion concerning the modification of the alignment of Central Greece Motorway E65, from 39+000 to 47+000 and 52+000 to 85+800, the J/V has sent the updated designs. The updates of the new designs/plans refer only to the addition of new Sites for which our J/V suggests their restoration through embankment (disposal pits) in accordance with the provisions of Article 7 of Law 4014/2011 (OGG 209A/2011) (20.03.2014).
28. Following our J/V request dated 27.01.2014 to the ΛΔ Ephorate of Prehistoric and Classical Antiquities on an opinion concerning the modification of the alignment of Central Greece Motorway E65, from CH. 39+000 to CH. 47+000 and from CH. 52+000 to CH. 85+800, the J/V has sent the updated designs. The updates of the new designs/plans refer only to the addition of Operating Infrastructure Sites along the project, and to the addition of sites for which the J/V proposes their restoration through material embankments (disposal pits) pursuant to the provisions of Article 7 of Law 4014/2011 (OGG 209A/2011) (20.03.2014).
29. Following our J/V request dated 27.01.2014 to ΛΔ Ephorate of Prehistoric and Classical Antiquities on an opinion concerning the modification of the alignment of Central Greece Motorway E65, from CH. 39+000 to CH. 47+000 and from CH. 52+000 to CH. 85+800, the J/V has sent the updated designs. The updates of the new designs/plans refer only to the addition of Operating Infrastructure Sites along the project and to the addition of sites for which the J/V proposes their restoration through material embankments (disposal pits) pursuant to the provisions of Article 7 of Law 4014/2011 (OGG 209A/2011) (20.03.2014).

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30. Our J/V requested the Directorate for Development of Trikala for the extension of the licensing in “Aerodromio”, at the Municipal District of Kefalovryssos, Prefecture of Trikala (BP6N1) (20.03.2014).
31. Our J/V requested the Directorate of Technical Control of the Decentralized administration of the Region of Thessalia and Central Greece, the direct leasing of the area for the creation of a borrow pit in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida (BP3N6) (31.03.2014).
32. In response to our J/V request dated 20.03.2014 towards the Directorate for Development of Trikala for the extension of the operating license of the borrow pit in “Aerodromio”, at the Municipal District of Kefalovryssos, Prefecture of Trikala (BP6N1), the Directorate for Development of Trikala requested for the submission of supporting documentation (31.03.2014).
33. Following letter with prot. no. ΥΠΠΟΑ/ΓΔΑΠΚ/ΔΙΠΚΑ/ΤΑΧ/68220/42007/4210/1665/14.03.2014, the Coordinating & Monitoring Office of Archaeological Works, within the framework of Major Projects of the Ministry of Culture and Sports, submitted a positive opinion on our J/V requests submitted to the 24th EIS (27.01.2014) and ΙΔ Ephorate of Prehistoric and Classical Antiquities (27.01.2014), concerning the modification of the motorway alignment, CH. 31+000 – CH. 39+000 (01.04.2014).
34. In response to our J/V submission dated 18.02.2014 – submission of Environmental Report pursuant to Article 6 of Law 4014/2011, concerning the determination of the environmental licensing procedures of the final design of Central Greece Motorway (E65) in Lamia – Makrihori section (JMD ETA 144504/18.11.2005),

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subsection CH. 31+212 – CH. 85+800 (excluding section CH. 47+313 – CH. 51+843) – EYPE/YPEKA, requested for the submission of the Modification File in 6 copies (01.04.2014).

35. In response to our request dated 20.03.2014 to the Ephorate of Prehistoric and Classical Antiquities concerning the opinion of the modification of the alignment of the Central Greece Motorway E65, from CH. 39+000 to 47+000 and from 52+000 to CH. 85+800, the Ephorate of Prehistoric and Classical Antiquities with prot. no. 840/27.03.2014 submitted its positive opinion (03.04.2014).

36. In response to our request dated 20.03.2014 to the 19th EIS concerning the opinion of the modification of the alignment of the Central Greece Motorway E65, from CH. 39+000 to 47+000 and from 52+000 to CH. 85+800, the 19th EIS with prot. no. 777/27.03.2014 submitted its positive opinion (03.04.2014).

37. Following EYPE/YPEKA letter dated 24.03.2014 (see p. 34 above), our J/V submitted six copies of the Modification File pursuant to Article 6 of Law 4014/2011 on the environmental licensing of the modifications on sections CH. 31+212 – CH. 85+800 of the project (CH. 47+313 – CH. 51+843) (03.04.2014).

38. In response to our request dated 20.03.2014 to Thessalia Service of Modern Monuments on the opinion concerning the modification of the alignment of Central Greece Motorway E65, for sections from CH. 39+00 to CH. 47+000 and from CH. 52+000 to CH. 85+800, the Service of Modern Monuments with prot. no. 452/28.03.2014 submitted its positive opinion (03.04.2014).

39. Following our J/V submission dated 03.04.2014 (see p. 37 above), our J/V submitted additionally the positive opinions of the competent archaeological services:

- 19th Ephorate of Byzantine Antiquities

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- 24th Ephorate of Byzantine Antiquities
 - ΛΔ Ephorate of Prehistoric and Classical Antiquities
 - ΙΔ Ephorate of Prehistoric and Classical Antiquities
 - Thessalia Service of Modern Monuments (03.04.2014)
40. Following our request dated 12.03.2014 to the Municipality of Pyli on the conclusion of the lease agreement between the Municipality of Pyli and our J/V concerning the borrow pit in “Vrontaria”, Municipality of Pyli, Prefecture of Trikala (code BP6N2), the Municipality of Pyli informed us that our request was included in the agenda of the 5th/2014 meeting to be held on 11.04.2014 (09.04.2014).
41. Following our request dated 28.02.2014 submitted to the Forestry of Lamia on the issuance of characterization act for the creation of an aggregate material borrow pit in “Kokalitsa”, at Makryrachi, Prefecture of Fthiotida (code BP3N6), the Forestry of Lamia issued a Characterization Act no. 1783/61052/02.04.2015 for the said area (10.04.2014).
42. Our J/V submitted for approval an amending Annex to the YPEKA Directorate of Marbles and Aggregate Materials regarding the time schedule of the approved Technical Design for Use of loose aggregate material Quarry – Borrow Pit in “Aerodromio”, at Faloria, Prefecture of Trikala (BP6N1) (14.04.2014).
43. EYPE/YPEKA prot. no. 172111/11.04.2014 submitted our letter dated 01.04.2014 (see p. 34 above) to the YPEKA Directorate of Aesthetic Forests, National Parks and Game Management for opinion, and to the Secretariats of Thessalia and Central Greece Regional Boards for publication (15.04.2014)
44. In response to our request dated 31.03.2014 to the Directorate of Technical Control of the Decentralized administration of the Region

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of Thessalia and Central Greece, for the direct leasing of the area for the creation of a borrow pit in “Kokalitsa”, P.C. Makryrachi, Prefecture of Fthiotida (BP3N6), the above service requested the competent services to give an opinion (16.04.2014).

45. Following our requests dated 07.02.2014 submitted to the 24th EIS and the ΙΔ Ephorate of Prehistoric and Classical Antiquities, the Coordinating & Monitoring Office of Archaeological Works in the framework of the Major Projects of the ministry of Culture with prot. no. ΥΠΠΟΑ/ΓΔΑΠΚ/ΔΙΠΚΑ/ΤΑΧ/100157/60125/6194/2405/17.04.2014 submitted a positive opinion concerning the creation of the borrow pit in “Kokalitsa”, Community of Makryrachi, Prefecture of Fthiotida (BP3N6) (22.04.2014).
46. In response to our submission dated 14.04.2014 to the YPEKA Directorate of Quarries, Marbles and Aggregate Materials, on the approval of the amending Annex concerning the time schedule of the approved Technical Design for use of loose aggregate materials quarries – borrow pit, in ‘Aerodromio”, at Faloria, Prefecture of Trikala (BP6N1), the aforementioned service - in order to proceed to the approval of the amending Annex with prot. no. Δ10-Β/Φ.45.11/6973/1567/23.04.2014 - requested for the submission of the relevant evidence on State’s rights (24.04.2014).
47. In response to the letter no. Δ10-Β/Φ.45.11/6973/1567/23.04.2014 of the YPEKA Directorate of Quarries, Marbles and Aggregate Materials (see p. 46 above), our J/V submitted the necessary receipts on State’s rights (28.04.2014).
48. Submission of Environmental Impact Design for CH. 47+313 – CH. 52+840 (28.04.2014).
49. Submission of Activity Statement for the use of aggregate materials quarry – borrow pit in “Geladaria”, Anavra Local Community,

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- Municipal Community of Tamassi, Municipality of Sofades, Prefecture of Karditsa (pursuant to Article 13, Law 1428/84) for 2013 – Inactivity Statement (29.04.2014).
50. Submission of Activity Statement for the use of aggregate materials quarry – borrow pit in “Kioska”, Anavra Local Community, Municipal Community of Tamassi, Municipality of Sofades, Prefecture of Karditsa (pursuant to Article 13, Law 1428/84) for 2013 – Inactivity Statement (29.04.2014).
51. Submission of Activity Statement for the use of aggregate materials quarry – borrow pit in “Aerodromio” or “Potamia”, Kefalovryssso Local Community, Municipal Community of Faloria, Municipality of Trikkaia, Prefecture of Trikala (pursuant to Article 13, Law 1428/84) for 2013 – Inactivity Statement (29.04.2014).
52. Submission of Activity Statement for the use of aggregate materials quarry – borrow pit in “Kalamaki Vryssi”, Agia Paraskevi Local Community, Municipality of Lamia, Prefecture of Fthiotida (pursuant to Article 13, Law 1428/84) for 2013 – Inactivity Statement (29.04.2014).
53. Our J/V requested the Directorate of Technical Control of the Decentralized administration of the Region of Thessalia and Central Greece, the Service of Modern Monuments and Technical Projects of Thessalia gave positive opinion on the use of the quarry - borrow pit area in “Kokalitsa, Local Community of Makryrachi, Regional Unit of Ksiniada, and Municipality of Domokos (BP3N6) (02.05.2014).
54. Following our J/V request dated 14.04.2014 and our J/V's letter dated 28.04.2014, the YPEKA Directorate of Quarries, Marbles and Aggregate Materials with prot. no. Δ10-B/Φ.45.11/7538/1777/30.04.2014 (ADA: B10E0-4ΨΜ) decision,

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approved an amending Annex concerning the time period of the approved Technical Design for use of loose aggregate materials Quarry - Borrow Pit, in “Aerodromio”, at Faloria, Prefecture of Trikala (BP6N1) (06.05.2014).

55. Letter with prot. no. Region of Lamia 290/23.04.2014 to the Technical Control Directorate of the Decentralized Administration of Thessalia – Central Greece, the HELLENIC ELECTRICITY DISTRIBUTION NETWORK OPERATOR S.A./Directorate of Central Greece Regional/Region of Lamia, gave a positive opinion on the use of the quarry – borrow pit in “Kokalitsa”, Local Community of Makryrachi, District Communal of Ksiniada, Municipality of Domokos (BP3N6) (06.05.2014).
56. Letter with prot. no. 748/29.04.2014, the 24th EIS gave a positive opinion on the use of the quarry – borrow pit in “Kokalitsa”, Local Community of Makryrachi, District Communal of Ksiniada, Municipality of Domokos (BP 3N6) (12.05.2014).
57. Letter with prot. no. 9702/02.05.2014, the Municipality of Pyli sent an extract of the 5th/11.04.2014 BoD regular session including its decision no. 147/2014, pursuant to which the postponing of the debate on our J/V request dated 12.03.2014 on the signing of the lease of the municipal land in “Vrontaria” as a borrow pit (BP6N2) (13.05.2014).
58. Submission of request of the extraordinary use to the Forestry of Lamia, on the construction of the structure 46.2A in CH. 46+753 (14.05.2014).
59. Letter with prot. no. EMNE/Φ.23.32/1430/16.05.2014 submitted to the Directorate for Technical Control of Thessalia – Central Greece, the Decentralized Administration gave a positive opinion on the use of the quarry – borrow pit in “Kokalitsa”, Local Community of

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Makryrachi, Municipal Community of Ksiniada, Municipality of Domokos (BP 3N6) (23.05.2014).

60. Following the characterization act no. 1783/61052/02.04.2014 of the Forestry of Lamia for the borrow pit area in "Kokalitsa", Local Community of Makryrachi, Municipal Community of Ksiniada, Municipality of Domokos (BP 3N6), our J/V submitted a request for a decision of finality of the above characterization act of the Forestry of Lamia (29.05.2014).
61. Submission of the Amendment File of the Environmental Terms of Central Greece Motorway (E65) in Lamia – Makrihori Section (JMD EIA 144504/18.11.2005), for the environmental licensing of CH. 24+500 – CH. 31+212 subsection (30.05.2014).
62. Letter with prot. no. 45628/3391/22.05.2014 to the Directorate for Technical Control of the Thessalia – Central Greece Decentralized Administration, the Structures and Environment department of Fthiotida gave a positive opinion concerning the use of the quarry – borrow pit in "Kokalitsa", Local Community of Makryrachi, Municipal Community of Ksiniada, Municipality of Domokos, (BP 3N6) (30.05.2014).
63. J/V request to the Forestry of Karditsa for a characterization act for the occupied section of the motorway CH. 47+313 – CH. 52+840 (17.06.2014).
64. J/V request to the competent archaeological services (ΛΔ ΕΠΚΑ, 19th EBA and Service of Modern Monuments of Thessalia) for an opinion concerning the modifications of the project in CH. 47+313 – Ch. 52+840 section (17.06.2014).
65. EIS submission for the suggested borrow pit of aggregate materials in "Kokalitsa", settlement of Makryrachi, Prefecture of Fthiotida (code BP 3N6) (18.06.2014).

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66. EIS submission for the MSS transportation from CH. 131+475 to CH. 132+420 (Kalampaka) section in CH. 115+100 – CH. 118+043,16 (Raksa of Trikala) (27.06.2014).

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 (EYDE D-C EPA & IO) and the competent service depending on the category of the project (see MD 1958/12 – OGG 21/B/2012). 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

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.	YPEKA Env. Gen. Director Decision	Amendment Decision of JMD ETA 144504/18.11.2005 (CH.0+000 –	

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No.	Decision Protocol No.	Decision Title / Project Section	
	prot. no. 167266/01.04.2013	CH. 14+500)	
3.	MD 173471/23.06.2014	Amendment Decision of ETA JMD 144504/18.11.2005 (CH. 31+212 – CH. 85+800, excluding section CH. 47+313 – CH. 51+843)	
4.	Joint Ministerial Decision 145521/18.11.2005	"Central Greece (E65) Road Axis / Makrihori – Kalampaka"	
5.	YPEKA Env. Gen. Director Decision 203583/04.12.2012	Amendment of the JMD ETA 145521/18.11.2005. Cut & Cover in CH. 137+000 with recoverable materials.	
6.	YPEKA Env. Gen. Director Decision 172041/26.11.2013	Amendment of the JMD ETA 145521/18.11.2005. Modifications in Makrihori – Kalampaka section (CH. 85+800 – CH. 137+550).	
7.	Joint Ministerial Decision 147014/18.11.2005	Central Greece Road axle (E65), Kalampaka – Egnatia section and Ag. Paraskevi I/C for its connection with Egnatia Odos.	
8.	Joint Ministerial Decision 103681/05.05.2006	"Connecting road of the Smokovo I/C with the existing road network". The said project is no longer a scope of the Concession Agreement.	
9.	Joint Ministerial Decision 146113/12.07.2005	Skarfia – Thermopiles in Skarfia – Lamia section of PATHE motorway.	
10.	Joint Ministerial Decision 126696/06.06.2007	JMD amendment no. 146113/12.07.2005. The amendment to the Environmental Licensing of Agia Triada and Molos I/C toll stations of PATHE motorway was reserved for the Borrow pits approval.	
11.	122881/08.03.2010 EYPE/YPEKA	Environmental licensing of the toll stations in Agia Triada and Molos I/C of PATHE motorway.	
12.	Joint Ministerial Decision	"Optimization of the National Road to a PATHE motorway, section from Skarfia to Lamia, subsection from the beginning of	

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No.	Decision Protocol No.	Decision Title / Project Section	
	131550/04.05.2003	Thermopiles I/C to Nea Kiti of Sperchios".	
13.	EYPE/YPEKA 121668/08.02.2010	Environmental Licensing of the toll station in Thermopiles I/C of PATHE motorway.	
14.	JMD 146109/30.09.2005	"Upgrading the National Road to PATHE motorway, from Nea Kiti to Roditsa I/C.	
15.	Joint Ministerial Decision 130665/02.05.2003	"Upgrading the Athens – Thessaloniki National Road (NR) to Patra – Athens – Thessaloniki – Evzoni (PATHE) motorway, Lamia – Raches section, subsection from CH. 3+500 to CH. 12+000"	
16.	JMD 195214/11.01.2011	Amendment of letter no. 130665/02.05.2003	
17.	JMD 100198/30.05.2006	Stylida – Karavomylos bypass	
18.	EYPE/YPEKA 121667/08.02.2010	Environmental Licensing of the toll stations in Agia Marina – Stylida I/C and Stylida – Karavomylos I/C of PATHE motorway.	

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	6484/10.03.2010	----	----	

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations	
	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)	14111/22.06.2011	----	Resubmission	
		15414/08.11.2012	167266/01.04.2013	Submission of 2 additional copies <u>Approval</u> : Decision no. oik. 167266/01.04.2013 on the JMD AET amendment 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 requested for the EIA with letter no. 203089/13.11.2012	
3.	Additional Environmental Impact Assessment for the improvement of CH. 47+000 – CH. 56+000 (of Smokovo semi section)	12015/05.01.2011	----	Submission	
4.	Amendment File of the Environmental Terms of Central Greece Motorway (E65) in Lamia – Makrihori (JMD AET 144504/18.11.2005), for the environmental licensing of CH. 24+500 – CH. 31+212 subsection.	18588/30.05.2014	Expected to be approved	Following points 2 & 3, the section CH. 14+500 – CH. 85+800 was divided into partial subsections.	

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations	
5.	Amendment File in accordance with Article 6 of Law 4014/2011 for the environmental licensing of the modifications in sections CH. 31+212 – CH. 85+800 of the project (apart from CH. 47+313 – CH. 51+843)	15991/18.02.2014	MD 173471/23.06.2014 of JMD AET no. 144504/18.11.2005	Following points 2 & 3, the section CH. 14+500 – CH. 85+800 was divided into partial subsections.	
6.	EIA for the environmental licensing of the modifications of section CH. 47+313 – CH.52+840.	16362/28.04.2014	Expected to be approved	Following points 2 & 3, the section CH. 14+500 – CH. 85+800 was divided into partial subsections.	
7.	Report on the determination of the environmental licensing procedures of Central Greece (E65) Road Axle in Makrihori – Kalampaka (CH. 85+800 – CH. 137+550) (File of Art. 13 of the JMD no. 11014/703/Φ104/2003JMD)	3113/23.07.2009 3786/21.09.2009 4796/27.11.2009 5097/14.12.2009 6005/11.02.2010	---	The study has been submitted by EOSA with prot. no. A248145/04.03.2010 The design with prot. no. 122785/26.04.2010 was returned by EYPE	
		12006/04.01.2011	---	Resubmission	
		14130/23.06.2011	YPEKA Env. Gen. Director Decision no. 172041/26.11.2013	Resubmission and Approval: YPEKA Env. Gen. Director Decision no. 172041/26.11.2013	
8.	EIA for the transportation of Kalampaka MSS (CH. 132+000) to a new position near Trikala (CH. 117+000)	11990/04.01.2011	---	Submission	
		---	---	Return of study by EOSA for resubmission (A282383/26.01. 2014)	
		13178/22.03.2011	---	Resubmission and <u>rejection</u> : YPEKA Env. Gen. Director Decision no. 172041/26.11.2013	

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations	
		19067/27.06.2014	It is expected to be approved	Resubmission	
9.	EIA for the Cut & Cover construction in CH. 137+000 with recoverable materials	12854/28.01.2011	---	Submission	
				The design with prot. no. A287258/17.03.2011 was returned by EYPE for resubmission	
		13726/09.05.2011	203583/04.12.2012	Resubmission <u>Approval:</u> No essential differentiations are being made concerning the impact on the environment. The environmental terms already approved with JMD AET prot. no. 145521/18.11.2005 are in force.	
10.	EIA for the Cut & Cover construction in CH. 138+400 with recoverable materials	12854/28.01.2011	---	Submission	
				EOSA Negative Response (A287258/17.03.2011) because the said project belongs to JMD 147014/18.11.2005 which is under suspension following the Council of State temporary order.	
		13726/09.05.2011	---	Resubmission	
11.	Supplementary EIA for the connecting road from Anavra to Thavmakos (a' section) of 13,5km of length replacing the connecting road Smokovo – Monastiri,	12016/05.01.2011	EYPE/YPEKA with its letter no. 198627/28.05.2012 submitted the design to the Design and Spatial	Given that the biggest section of the suggested road alignment falls within the road limits of Karditsa, the Environment and Planning Directorate of	

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No	Design Title	Submission J/V Ref. No	Decision of Approval	Observations	
	of an approximate length of 9 km.		Planning Directorate (Central Greece), falling within its jurisdiction, in accordance with the new classification of the projects and activities of the MD 1958/2012 (OGG 21B/13.01.2012)	Central Greece requests from EOSA, with a relevant letter (2803/117679/12.07.2012) to also submit the issue of the said EIA to the Environment and Planning Directorate of Thessalia of the Decentralized Administration of Thessalia – Central Greece The said project is no longer subject of the Concession Agreement	

12.	Design on the Environmental Licensing of the Construction and Operation of the Toll Stations in Athens – Thessaloniki National Road, Skarfia – Thermopiles subsection of Skarfia – Lamia section, in Agia Triada and Molos I/C (File pursuant to Article 13 of the JMD 11014/703/Φ104/2003)	3907/28.09.2009	EYPE/YPEKA 122881/08.03.2010	Approved	
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13.	Design on the Environmental Licensing of the Construction and Operation of the Toll Stations in Athens – Thessaloniki National Road, Thermopiles I/C – Nea Kiti, Sperchios, Skarfia – Lamia section in Thermopiles I/C (File	4049/08.10.2009	EYPE/YPEKA 121668/08.02.2010	Approved	
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	pursuant to Article 13 of the JMD 11014/703/Φ104/2003)			
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14.	Design on the Environmental Licensing of the Construction and Operation of the Toll Stations in Athens – Thessaloniki National Road, Roditsa I/C – Agia Marina I/C, Lamia - Raches section, in Agia Paraskevi I/C and Mavromantila (File pursuant to Article 13 of the JMD 11014/703/Φ104/2003)	4049/08.10.2009	EYPE/YPEKA 195214/11.01.2011	Approved
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15.	Design on the Environmental Licensing of the Construction and Operation of the Toll Stations in Athens – Thessaloniki National Road, subsection of Agia Marina I/C, Stylida – Raches I/C of Raches – Skarfia section (File pursuant to Article 13 of the JMD 11014/703/Φ104/2003)	4049/08.10.2009	EYPE/YPEKA 121667/08.02.2010	Approved
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4.1.3 Special Designs

During the first semester of 2014, no special designs have been made.

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4.2 ANTIQUITIES

The Construction Joint Venture is in direct communication with the competent archaeological services. Based on the Concession Agreement and the 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 30.06.2014 situation performed in the reserved areas.

S/N	Start	Finish	Place-name	Blocked on	Free on	Remarks
1	55+760	55+780	Avlonaki	ΛΔ' ΕΠΚΑ: 1017/07.04.14 (J/V: 16316/16.04.14)		Remains blocked
2	64+320	64+540	Kalathia	ΛΔ' ΕΠΚΑ: 3899/1.10.09 (J/V: 4060/8.10.09)		Remains blocked
3	67+900	68+028	Tataria or Psilomata	ΛΔ' ΕΠΚΑ: 4841/27.11.09 (J/V: 4979/8.12.09)	ΥΠΠΟΤ: 2163/07.04.14 (J/V: 18705/10.06.14)	Delivery of area. Covering with earth the remaining.
4	68+028	68+140	Tataria or Psilomata	ΛΔ' ΕΠΚΑ: 4841/27.11.09 (J/V: 4979/8.12.09)		Awaiting dispatch of document.
5	68+510	68+620	Pentares	ΛΔ' ΕΠΚΑ: 4841/27.11.09 (J/V: 4979/8.12.09)		Discussed in Central Archaeological Center on 04.02.2014 Decision pending.
6	68+510	68+600	Pentares	ΛΔ' ΕΠΚΑ: 797/24.3.14 (J/V: 16186/26.3.14)		Remains blocked

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S/N	Start	Finish	Place-name	Blocked on	Free on	Remarks
7	78+191	78+210		ΛΔ' ΕΠΚΑ: 5001/9.12.09 (J/V: 5111/14.12.09)		Discussed in Central Archaeological Center on 10/11.03.2014. Decision pending

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 which derives from the construction works and other activities.

Table 4.3.1-1:

Waste Disposal Table

Waste / Material Type	Origin	Collection & Storage Method	Managing Agency	Actions
Waste Lubricating Oils - Mineral Oils (ALE)	Project machinery & motor-powered equipment	In barrels within the worksites	Licensed Operator for Alternative Management D. LIVADAROS/ACHAEAN LUBRICANTS	Agreement with ACHAEAN LUBRICANTS S.A

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Waste / Material Type	Origin	Collection & Storage Method	Managing Agency	Actions
			S.A	
Batteries - Accumulators	Project machinery & equipment	In wooden pallets located at special areas	Licensed Operator for Alternative Management CHOUMAS I.	Agreement with CHOUMAS I.
Vehicle tires	Project vehicles	In safe open areas within the worksite	Licensed Operator for Alternative Management EKOELASTIKA S.A. (through Roditis Alkiviadis)	Agreement with Roditis Alkiviadis
Metallic scrap	Project Construction	In safe open areas within the worksite	Any licensed metal collector	Transportation where scrap is produced
Wooden pallets	Procurement of materials for the construction of the project	In open areas within the worksite	Any palette trader / manufacturer	Transportation
Solid hazardous waste	Equipment maintenance, project construction	In safe special areas within the worksites	Any licensed collector of solid hazardous waste	Agreement with the body for alternative hazardous waste management
Liquid hazardous waste	Equipment maintenance, project construction, material excess	In barrels within the worksites	Any licensed collector of liquid hazardous waste	Agreement with the body for alternative hazardous waste management

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Waste / Material Type	Origin	Collection & Storage Method	Managing Agency	Actions
Electrical & Electronic Equipment (AHHE)	Worksites, Lighting maintenance	In predefined areas within the worksites	Licensed Operator for Alternative Management (APPLIANCES RECYCLING S.A.)	Agreement with APPLIANCES RECYCLING S.A.
Municipal solid waste	Worksites, offices	In municipal litter bins	The Municipal Authorities	Agreement or cooperation
Other solid waste (paper)	Worksites, trial laboratories	In litter bins within the worksites	Any licensed collector of solid non-hazardous waste	Application to Municipalities Working with P.A.DY.TH. SA (Environmental Development of Western Thessaly SA)
Liquid waste	Site Offices	Waterproof cesspits	Any licensed subcontractor / Municipal Water Supply and Sewerage of Karditsa	Waterproof cesspits
Liquid waste	Asphalt mix & concrete manufacturing unit	Oil-Dirt collector - settlement tank	Any licensed collector of liquid non-hazardous waste	Agreement with subcontractor

The quantities of waste, which are being ecologically managed within the first semester of 2014 in the framework of the project's construction, shall be presented in the following table (Table 4.3.1-2) and mainly refer to office supplies. It is noted that a part of the produced waste is processed via permanent

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and legitimate facilities that take part in the construction of the project and that comply with the applicable legislation on waste disposal.

Table 4.3.1-2:
Waste Disposal Table

Waste / Material Type	EKA Code	Method of management (quantities in kilos, c.m. pieces, etc.)				Observations
		Recycling /regeneration	Temporary storing	Temporary deposit	Permanent Disposal/A availability	
Vehicle tires	16 01 03		Storing on wooden pallets in a specially designed area within worksites		167 pieces	Temporary storing of 45 pieces
Batteries - Accumulators	16 06 01		Storing on wooden pallets in a specially designed area within worksites		910 kg	Temporary storing almost 350 (from road signage) and 6 (from mechanicall y-operated) pieces

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waste lubricating engine oils, turbines and hydraulic systems	13 01 10, 13 01 11, 13 01 13, 13 01 13, 13 03 07, 13 03 08, 13 03 09, 13 03 10	---	Temporary storage in barrels in specifically designed areas inside the worksites	---	6.130 Kg	---
Metal scrap			Temporary storage in barrels in specifically designed areas inside the worksites		7.180	

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.

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4.3.3 Vibrations

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

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 the law and in the event of exceeding the limits all required measures are taken.

No works causing great increase in the existing noise levels were carried out near the sensitive indicators during the reference period.

According to the results of the above mentioned measurements carried out in previous periods (see previous reports), 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 project.

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

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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.

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

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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.