

ICGB AD

Ref.No. P-12/12.09.2018

To

**SYBILLA Consulting Engineers Ltd.**

**16, Ypsilandou st., Maroussi GR15122**

**Athens, Greece, EU.**

**Tel. +30-2108024244**

**E-mail : [mail@sybilla.gr](mailto:mail@sybilla.gr)**

## INVITATION

For

Performing services for update of the Quantitative risk assessment (QRA) of IGB Project in order to incorporate the interconnection of Greece-Bulgaria (IGB) to the TransAdriatic Pipeline (TAP) utilizing specialized and suitable software

**DEAR MR. PANAGOPOULOS,**

In view of the fact that **SYBILLA Consulting Engineers Ltd.** is a legal entity which has prepared the Quantitative Risk Assessment Study for the Greek section of IGB of Gas interconnector Greece- Bulgaria Project and pursuant to art. 191, par.1, item 2 PPA, we are addressing an invitation to you for performing services related to update of the Quantitative risk assessment (QRA) of IGB Project in order to incorporate the interconnection of Greece-Bulgaria (IGB) to the TransAdriatic Pipeline (TAP), utilizing specialized and suitable software, as listed below in that invitation.

### 1. Contracting Entity.

Contracting Entity of this public procurement are the representatives of ICGB AD - a company, pursuant to art. 5, par. 4, item 1 PPA.

ICGB AD, having its seat and contact address: 13 Veslets Street, 2<sup>nd</sup> floor, 1000 Sofia, Bulgaria, telephone: +359 2 92 63 803, fax: +359 2 92 50 392, e-mail: [office@icgb.eu](mailto:office@icgb.eu)

Main address of the assigning authority/contracting entity: <http://www.icgb.eu/>

Buyer's profile address: <http://www.icgb.bg/profil-na-kupuvacha/proceduri-za-vuzlagane-na-op>

Contact Person: Georgios Kostopoulos, Technical Director.

## 2. Subject of the public procurement.

Performing services for the update of the Quantitative risk assessment (QRA) of IGB Project in order to incorporate the interconnection of Greece-Bulgaria (IGB) to the TransAdriatic Pipeline (TAP) utilizing specialized and suitable software.

The estimated value of the public procurement is up to EUR 30 000 VAT excluded.

## 3. Legal grounds.

This procurement is awarded pursuant to art. 191, par. 1, item 2 PPA - through an invitation to particular persons.

**Grounds:** The person invited by the Contracting Authority to submit an offer is the author of Quantitative Risk Assessment Study for the Greek section of Gas interconnector Bulgaria-Greece Project in accordance with Contract No P-02-C-18.05.2017 concluded with the invited. As a result of the execution of the contract, the Quantitative Risk Assessment Study for the Greek section was prepared.

The QRA study for the whole IGB pipeline length was conducted and approved by the relevant Greek Authorities. The abovementioned study has to be revised in order to include:

1. The new interconnecting pipeline between IGB and TAP.
2. The integrated M/R station connecting IGB to both DESFA and TAP pipelines.

A preliminary study for both the pipeline and the M/R station is available with the design characteristics and operational parameters of the project (Doc No P574-000-RP-GEN-001 Rev 0 and associated drawings).

The QRA study prepared by the invited is subject to copyright under Art. 3, para 1, item 1 of the Copyright and Related Rights Act (CRRA). Any modification and updating of the QRA study by a person other than the one who have elaborated the original document enters into conflict with the provision of Art. 18, para. 1 of the CRRA, according to which the author has the exclusive right to use the work the latter has created and to authorize his use by other persons, for use in the meaning of para. 1 determines the processing and synchronization of the work. Recasting is also the adaptation and introduction of any kind of changes to the work, i.e. its updating or upgrade in the sense of Art. 18, para. 2, item 8 of the CRRA.

In this sense, the services that need to be performed in addition to the updating of the prepared QRA study includes actions for updating, agreeing, approving, possibly correcting and can only be performed by the person who prepared them.

#### **4. General information.**

The IGB Project, developed by ICGB AD (a Company owned 50% by Bulgarian Energy Holding EAD and 50% by IGI Poseidon SA), includes the engineering, financing, construction and operation on a long-term basis of the natural gas interconnector onshore pipeline between Greece and Bulgaria.

It will interconnect the natural gas transmission systems of DESFA and TAP, both in Greece, with the one of BULGARTRANGAZ in Bulgaria. To this extent, the IGB Project will connect the Southern corridor with the C-SEE gas markets and will allow the supply of gas from multi sources (i.e. Caspian, Middle East, etc) through the existing and future interconnection of the Turkish, Greek and Bulgarian gas networks and relevant LNG systems.

The pipeline will start from the Municipality of Komotini in Greece, where it will be linked to DESFA and will end in the Municipality of Stara Zagora in Bulgaria, where it will be linked with the BULGARTRANGAZ system.

A technical study for the evaluation of options for the new interconnection of IGB pipeline with TAP natural gas systems (at the Block Valve Station GBV04 of the TAP), will be provided.

#### **5. Scope of services.**

The scope of services is described in details in Appendix No 1 "Scope of services" attached to the Invitation.

#### **6. Implementation term.**

The total implementation term is 3 months as of the date of the signing of the Contract between the Parties and as of the receipt of Assignment letter by the Contracting Entity for the submission of a first complete draft of the Study. The revised study shall be submitted within 15 days from the receipt of comments by the Contracting Entity for its final acceptance.

#### **7. Term of validity of the offer.**

The offer shall have a validity term of 60 calendar days as of the date it is submitted to the Contracting entity.

### **8. Deadline for submitting the offer.**

The offer along with the appendices shall have to be submitted by **28.09.2018 at 18:00** in the premises of ICGB AD, Sofia, 13 Veslets Street, floor 2.

### **9. Requirements to the contents of the offer.**

The offer and the appendices to it shall be submitted as per the samples attached herein. The offer and the appendices to it shall be submitted in English language.

The offer shall be submitted as a hard copy and shall contain:

- A list of the documents;
- An offer containing a technical and a price offer;
- 2 Declarations under art. 97, par. 5 PPA;

The declaration for non-existence of circumstances under art. 54, par. 1, item 1, 2 and 7 PPA shall be signed by the persons representing the applicant. When the applicant is represented by more than one person, the declaration for the circumstances under art. 54, par. 1, item 3-5 PPA shall be signed by the person that can represent it individually.

The price offered shall have to include a total lump sum for performing the service, all costs included, as well as prices for each of the activities separately.

The offer shall be submitted personally, through an authorized person or by courier, at the office of the Contracting entity.

### **10. Considering the offer. Concluding a contract.**

The offer of the applicant invited shall be considered in accordance with the requirements of the Rulebook for application of PPA.

Before concluding the contract the applicant invited shall have to submit documents evidencing the non-existence of the circumstances under art. 54, par. 1, item 1-5 PPA, namely:

- A conviction certificate of the person representing the applicant invited;
- A certificate by the revenue authorities and by the municipality as per the seat of the contracting entity and the applicant invited for non-existence of liabilities for taxes and mandatory social security contributions pursuant to art. 162, par. 2, item 1 TIPC and interest on them to the state or to the municipality as per the seat of the Contracting entity and the applicant invited.

**11. Appendices to the request.**

Appendix № 1 – Scope of services

Appendix № 2 - Sample Offer;

Appendix № 3 – Sample of a declaration under art. 97, par. 5 RAPPAs- for the circumstances under art. 54, par. 1, item 1, 2 and 7 PPA;

Appendix № 4 – Sample of a declaration under art. 97, par. 5 RAPPAs- for the circumstances under art. 54, par. 1, item 3-5 PPA;

**FOR THE CONTRACTING ENTITY:**

**Teodora Georgieva-Mileva**

**Executive officer**



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**Konstantinos Karayannakos**

**Executive officer**



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## APPENDIX № 1

### Scope of services

for

**Performing services for update of the Quantitative risk assessment (QRA) of IGB Project in order to incorporate the interconnection of Greece-Bulgaria (IGB) to the TransAdriatic Pipeline (TAP), utilizing specialized and suitable software**

#### 1. Project Background.

The IGB Project, developed by ICGB AD (a Company owned 50% by Bulgarian Energy Holding EAD and 50% by IGI Poseidon SA), includes the engineering, financing, construction and operation on a long-term basis of the natural gas interconnector onshore pipeline between Greece and Bulgaria.

It will interconnect the natural gas transmission systems of DESFA and TAP, both in Greece, with the one of BULGARTRANGAZ in Bulgaria. To this extent, the IGB Project will connect the Southern corridor with the C-SEE gas markets and will allow the supply of gas from multi sources (i.e. Caspian, Middle East, etc) through the existing and future interconnection of the Turkish, Greek and Bulgarian gas networks and relevant LNG systems.

The pipeline will start from the Municipality of Komotini in Greece, where it will be linked to DESFA and will end in the Municipality of Stara Zagora in Bulgaria, where it will be linked with the BULGARTRANGAZ system.

A technical study for the evaluation of options for the new interconnection of IGB pipeline with TAP natural gas systems (at the Block Valve Station GBV04 of the TAP), will be provided.

## 2. Scope of Works

A QRA study for the whole IGB pipeline length has been conducted and was approved by the relevant Greek Authorities.

The abovementioned study has to be revised in order to include:

1. The new interconnecting pipeline between IGB and TAP.
2. The integrated M/R station connecting IGB to both DESFA and TAP pipelines.

A preliminary study for both the pipeline and the M/R station is available with the design characteristics and operational parameters of the project (Doc No P574-000-RP-GEN-001 Rev 0 and associated drawings).

The revised QRA deliverable contents are:

- a. The technical characteristics of the project, including constructive data on construction and applicable codes.
- b. Types of ruptures (small, medium, big, emergency ones), of the respective size of holes and the respective chance of occurrence.
- c. Basic frequency of pipeline failure per class location, rupture and holes.
- d. Probability of ignition and instant ignition (fireball or jetfire), as well as of delayed ignition.
- e. Event trees, per class location, rupture and holes.
- f. Description of mortality criteria for thermal radiation, instant burning and pressure wave (if applicable).
- g. Consequences of the event. In this part, the models which were used will be described, as well as the extent of the consequences, the mortal distances for various levels of mortality (LD1, LD50 και LD100), the input and output data from the relevant software for consequences evaluation. The above-mentioned calculations will be performed in accordance with the predominant meteorological conditions in the area, or, if there are not relevant data, in accordance with at least two options of the Engineer (eg 2F, 5D). The above to be presented in a

separate Appendix. The PHAST software from DNV-GL (or equivalent) will be used for the Consequence calculations.

- h. Analytical calculation of the individual risk, by attaching the input and output data of the software which was used for the calculations. The above shall be in a separate Appendix, with a relevant Table showing the calculation of the Individual Risk assessment at the specific point of the pipeline. Social Risk assessment is not mandatory by Greek Regulations and will not be required.
- i. Implementation of suitable mitigation measures for the individual risk (I.R.) (eg increase of the pipeline wall thickness or deeper burial), in order its level to remain under the limit which is set by the Hellenic Technical Regulation for N.G. Transportation networks. It is reminded that the aforementioned Regulation does not provide the examination of cost-benefit, in order of higher I.R. to be accepted.
- j. Examination of the wider area around the pipeline / AGIs and assurance by the Contractor concerning the presence of homes, public gathering buildings, residents with vulnerable groups, as well as critical facilities within the affected area.
- k. The criteria with which the width of the risk assessment zone was calculated in the Study will be referred.
- l. The risk assessment shall refer to the whole interconnecting pipeline length, as well to the M/R station.
- m. The initiating event of "other reasons", which is referred in the 9 Report of the EGIG, shall be considered.

The QRA study must be prepared in Greek and in English languages in 4 paper copies where two (2) in Greek and two (2) English language and in two electronic copies CDs in Greek and English language.



**APPENDIX № 2**

<b>Name of the applicant:</b>	
<b>Legal form of the applicant:</b>	<i>(the commercial company or alliances or another legal form)</i>
<b>Registered seat</b>	
<b>UIC/Bulstat:</b>	
<b>Correct correspondence address:</b>	<i>(country, city, postcode, street, №)</i>
<b>Telephone number:</b>	
<b>Fax number:</b>	
<b>e-mail:</b>	
<b>Representative:</b>	<i>(names, position or another capacity)</i>

**OFFER**

***For awarding public procurement through an invitation to particular persons pursuant to art. 191, par. 1, item 2 PPA for "Performing services for update of the Quantitative risk assessment (QRA) of IGB Project in order to incorporate the interconnection of Greece-Bulgaria (IGB) to the TransAdriatic Pipeline (TAP) utilizing specialized and suitable software"***

**DEAR LADIES AND GENTLEMEN,**

Hereby we are submitting our offer for participation in the Public procurement announced by you through a request to particular persons pursuant to art. 191, par. 1, item 2 PPA for "Performing services for update of the Quantitative risk assessment (QRA) of IGB Project in order to incorporate the interconnection of Greece-Bulgaria (IGB) to the TransAdriatic Pipeline (TAP) utilizing specialized and suitable software".



We hereby declare that we are aware of the guidelines and terms for participation in the public procurement announced by you, the requirements of PPA and RAPPAs. We agree with the conditions set by you and we accept them without objections.

We agree to stick to this offer for a term not shorter than 60 (in words: sixty) calendar days after the date set as a deadline for receiving the application offers.

We will perform the procurement in accordance with this offer and the conditions of the Contracting entity and in accordance with the implementation term(s) set.

**Our price offer is:**

For performing the public procurement in its full volume as per the terms of the Request for application we are offering a price as follows:

....., *lin numbers and in words*  
EUR , VAT excluded, out of which:

The prices offered are final and are not subject to escalation and they include all costs on implementation of the procurement, including transportation, etc.

Payment of the price for performance of the contract shall be made pursuant to the terms of the contract for awarding public procurement.

Date : .....

**SIGNATURE and SEAL**

[name and surname]

[capacity of the applicant's representative]



**APPENDIX №3**

**DECLARATION**

**under art. 97, par. 5 of RAPPА**

**( for the circumstances under art. 54, par. 1, item 1, 2 and 7 PPA <sup>1</sup> )**

The undersigned: ....., ID No  
....., issued by ....., on ....., permanent residence:  
town/village of ....., municipality .....,  
district..... Street, block ....., floor ....., apartment  
....., in my capacity of ....., representing  
.....,

(position)

Having its seat and management address  
.....

Tel./fax: ....., UIC/BULSTAT .....

***An applicant in a public procurement through an invitation to particular persons pursuant to art. 191, par. 1, item 2 PPA for "Performing services for update of the Quantitative risk assessment (QRA) of IGB Project in order to incorporate the interconnection of Greece-Bulgaria (IGB) to the TransAdriatic Pipeline (TAP), utilizing specialized and suitable software"***

**I HEREBY DECLARE THAT:**

1. I have not been:

<sup>1</sup> The declaration for non-existence of the circumstances under art. 54, par. 1, item 1, 2 and 7 PPA shall be signed by the persons representing the applicant (the persons under art. 40 RAPPА). When the applicant is an alliance, the declaration is filled in also for the natural and/or legal persons members of the alliance.



- *convicted with an enforced verdict/ I have been rehabilitated<sup>2</sup>* for a crime under Art. 108a, Art. 159a – 159d, Art. 172, Art. 192a, Art. 194 - 217, Art. 219 - 252, Art. 253 - 260, Art. 301 - 307, Art. 321, 321a and Art. 352 – 353f of the Penal Code;

- *convicted with an enforced verdict/ I have been rehabilitated<sup>3</sup>* for a crime analogical to the ones under item 1 in another Member State or a third state;

2. There is no conflict of interests which cannot be removed.

I have been informed that for declaring false data in this declaration I shall be liable pursuant to art. 313 of the Penal Code.

Date : .....

Declarer: .....

**SIGNATURE and SEAL**

[name and surname]

[capacity of the applicant's representative]

<sup>2</sup> The invalid is crossed or the valid is underlined

<sup>3</sup> The invalid is crossed or the valid is underlined



**APPENDIX № 4**

**DECLARATION**

**under art. 97, par. 5 of RAPP (for the circumstances under art. 54, par. 1, item 3-5 PPA<sup>4</sup>)**

The undersigned: ....., ID  
№ ....., issued by ....., on ....., permanent residence:  
town/village of ....., municipality ....., district.....  
..... Street, block ....., floor ....., apartment ....., in my capacity of  
....., representing .....,

(position)

Having its seat and management address  
.....

Tel./fax: ....., UIC/BULSTAT .....

***An applicant in a public procurement through an invitation to particular persons pursuant to art. 191, par. 1, item 2 PPA for "Performing services for update of the Quantitative risk assessment (QRA) of IGB Project in order to incorporate the interconnection of Greece-Bulgaria (IGB) to the TransAdriatic Pipeline (TAP), utilizing specialized and suitable software"***

**I HEREBY DECLARE THAT:**

1.<sup>5</sup> There are payables for taxes and obligatory security contributions in the meaning of art. 162, par. 2, item 1 of the Tax-Insurance Procedure Code and interests on them, to the state or to the municipality where the central office of the contracting authority is and of the applicant or applicant, or analogical payables, established by an act of a competent body, under the legislation of the state, in which the applicant or applicant has been established:

a) none

<sup>4</sup> The declaration for non-existence of the circumstances under art. 54, par. 1, item 3-5 PPA shall be signed by the person/s who can represent the applicant individually (the persons under art. 40 RAPP). When the applicant is an alliance the declaration is filled in also for the natural and/or legal persons members of the alliance.

<sup>5</sup> The valid hypothesis from the sub-items is underlined or the invalid hypotheses from the sub-items are crossed



- b) there are but rescheduling, delay or security has been admitted
- c) there are but the payable is under a deed which has not been enforced.
- d) The amount \*\* of the unpaid taxes or social-security contributions due is not more than 1% of the amount of the annual total turnover for the last completed financial year

2. For the applicant I represent there is no inequality in the cases under art. 44, par. 5 PPA;

3. For the applicant I represent it has not been established that:

a) it has submitted a document with untrue contents, related to certification of the non-existence of grounds for exclusion or compliance with the selection criteria;

b) it has not submitted information required related to certifying non-existence of grounds for exclusion or compliance with the selection criteria;

I am aware of the liability pursuant to art. 313 of the Penal Code for declaring false data.

Date: .....

Declarer: .....

**SIGNATURE and SEAL**

[name and surname]

[capacity of the applicant's representative]

