

## Questions and answers

### Croatian Positioning Service (CROPOS) Network Establishment

#### 1. Publication reference

EuropeAid/123601/D/SUP/HR

#### 2. Procedure

Open

#### 3. Programme

PHARE 2005

#### 4. Financing

Croatia 2005 Phare National Programme

#### 5. Contracting authority

Ministry of Finance of the Republic of Croatia, Central Finance and Contracting Unit

|   |   |
|---|---|
| <p>Date: June, 20<sup>th</sup> 2007</p> <ol style="list-style-type: none"> <li>1. Which law is applied to decide who is eligible to apply for the tender? Is it some Croatian law or some other?</li> <li>2. Which documents are needed to prove the financial statement of the candidates and which institution should provide them?</li> <li>3. Please clarify the rule of origin. Can parts be imported from USA and then assembled in Croatia and offered as a final product?</li> <li>4. Are the references of one member of consortium considered as references of the whole consortium?</li> <li>5. Who is doing the customs clearance for the goods imported from abroad?</li> <li>6. Should the measuring data from 50 stations be processed on one server as a whole?</li> <li>7. Annex II: Technical specifications – Part III, page 22, point 3.4.3.3. Computation of real time correction data – RTK, under obligatory demands, please clarify the meaning of “<i>solution must be usable in everyday application of GNSS devices that are available in the market of the Republic of Croatia at the moment</i>”.</li> <li>8. In the Technical Requirements And System Functionality – Annex II – Part 3 there is a confusion between the terms SUPPLIER and the TENDERER. Please clarify the difference.</li> </ol> | <p>Date: June , 27<sup>th</sup> 2007</p> <ol style="list-style-type: none"> <li>1. The legal basis is described under point 22 of the Procurement Notice.</li> <li>2. At the tendering stage only the declaration on financial capabilities of the bidder is required. Proofs are requested only from the companies which are recommended to be awarded contracts. In such cases the evidence is requested following provisions of PRAG, section 2.4.12.1.3.</li> <li>3. In accordance with the Article 2 of Draft Contract, the origin of goods is determined according to the EC Customs Code.</li> <li>4. In case of consortium, the references of contracts implemented by one of its particular members could be provided within point 6 of the Tender Submission Form.</li> <li>5. The Contractor is responsible for finalisation of the delivery on basis of the DDU Incoterms.</li> <li>6. Yes, the system should be able to process and adjust measuring data from 50 stations simultaneously on one server as one unit.</li> <li>7. The products and services generating by the system must be distributed to the users in standard formats which are supported by GNSS devices from different manufactures.</li> <li>8. Tenderer is company during the tendering process, and the supplier is contracted company.</li> </ol> |
|---|---|

|  |   |
|--|---|
| <p>9. What is the maximum latency of the data transfer from the reference stations into the control centre?</p> <p>10. Who will have to provide and compute the coordinates of Reference stations?</p> <p>11. There is a penalty foreseen if there is a delay in delivery caused by the Contractor? What if delay is caused by the beneficiary?</p> <p>12. According to the CROPOS tender documentation, it is permissible to offer goods of EU or Croatian origin only. Our question regards method of supplying proof of origin, particularly for equipment of domestic production. Is statement or recipe issued by, e.g., Croatian chamber of commerce, good enough?</p>   | <p>9. The maximum latency of data transfer from the reference stations into the control centre depends mainly of quality of internet connection lines, supplier just have to ensure that components of delivered equipment does not cause additional delay during the data process.</p> <p>10. During the installation period, the coordinates of reference stations will be computed by the delivered networking software, after the installation of all reference stations and data registration of at least 7 days, the final coordinates will be computed by SGA using Bernese GPS Software.</p> <p>11. There are no penalties foreseen for the beneficiary.</p> <p>12. The eligible countries as regards the origin of goods are: EU Member States and Albania, Bosnia &amp; Herzegovina, Croatia, the Former Yugoslav Republic of Macedonia, Montenegro, Serbia and Turkey. For products within Croatian origin, a relevant certificate issued by the Croatian Chamber of Commerce is acceptable.</p> |
| <p>Date: June, 21<sup>st</sup> 2007</p>  |   |
| <p>13. Technical specifications are out of date. Is it possible to offer up to date products or do we have to stick with the requirements in the Technical specifications?</p> <p>14. What to do if the application requests smaller or greater number of servers? Do we have to offer the quantity which is in the Tender Dossier?</p> <p>15. Do we have to provide ISDN connection or just an access router?</p> <p>16. UPS is specified in the Technical specifications but it is not specified how long should the system be working or should we just stick with the UPS requirements?</p> <p>17. What type of storage do you currently use, tape or disk?</p> <p>18. Will the CROPOS system be independent from the existing one in the SGA?</p> <p>19. Is it necessary to provide a cooling system?</p> <p>20. Who will provide adapters for the GNSS antennas?</p> <p>21. Will the racks be positioned on the wall or on the floor in the server rooms?</p> <p>22. Is it necessary to have keyboards and screens for all</p> | <p>13. Yes, the Technical Specifications provide only minimum requirements.</p> <p>14. Yes, the tenderer have to follow the number of servers defined by technical specifications.</p> <p>15. The ISDN (ADSL) connection will be contracted and provided by SGA.</p> <p>16. The tenderers have just to follow UPS technical specifications.</p> <p>17. At the moment our IT center use tape storage.</p> <p>18. The IT equipment of CROPOS system as well as internet connections will be independent of existing IT equipment in the SGA.</p> <p>19. No, the cooling system for CROPOS server room will be provided by SGA.</p> <p>20. The adapters for the GNSS antennas will be provided by SGA.</p> <p>21. The racks in the server room as well as the racks of reference stations will be positioned on the floor.</p> <p>22. Yes.</p>   |

servers in the Control Center?

- 23. Why is transformation server needed?
- 24. One document of the tender documentation mentions 1 year warranty plus after sales warranty while on the other places there is a 3 year warranty mentioned. What type of warranty do we have to provide?
- 25. Where will be the location of the Reference station in Zagreb?
- 26. Will SGA be putting some test antennas before the installation of CROPOS to is if the position of the antennas id good?
- 27. Please clarify “GNSS receiver should be provided with the possibility of automatic initialization after electric power is on again and sending of stored data to the control centre”, as stated in the Annex II: Technical specifications – Part I, page 2 (Working options).
- 28. Please clarify “a supplier must confirm the ability of the offered software to meet the demands and a description of further products (services) that the software can generate”, as stated in the Annex II: Technical specifications – Part I, page 36 (Software for adjustment and computation of real-time correction data).

- 23. The transformation server is needed for the future application of unique transformation model which is currently in development.
- 24. After-sales conditions stipulate a time of Commercial warranty required, which is 3 years as of the issuance of the Provisional Acceptance Certificate.
- 25. The Zagreb reference station will be for sure in Zagreb, one option is SGA, Gruška 20, and another one is 7 km away in west direction at the building of APIS Agency.
- 26. No.
- 27. The receiver automatic initialization is option after electric power is on again.  
The sending of stored data to the control centre and data synchronization with the control centre is option in case of internet connection is on again.
- 28. The delivered system has to provide CROPOS services:

| CROPOS service                              | Procedure/ method                                   | Data transfer manner                                    | Accuracy                 | Data format          |
|---|---|---|--------------------------|----------------------|
| DPS<br>differential positioning             | code network solution in real-time                  | Wireless Internet (GPRS, UMTS, ...) NTRIP protocol, GSM | ±0.3 m to ±0.5 m         | RTCM 2.3<br>RTCM 3   |
| VPPS<br>highly precise positioning          | network solution of phase measurements in real-time | Wireless Internet (GPRS, UMTS, ...) NTRIP protocol, GSM | ±2 cm (2D)<br>±4 cm (3D) | RTCM 2.3<br>RTCM 3   |
| GPSS<br>geodetic highly precise positioning | post-processing                                     | Internet (FTP, e-mail)                                  | ±1 cm (2D, 3D)           | RINEX 2.1<br>RINEX 3 |

- 29. In Annex II: Technical specifications – Part I, page 6, do you mean that the receiver must have 7 physical ports?
- 30. You ask for delivery of spare parts during 3 years. Is it covered under the warranty?

- 29. No, it is not necessary that receiver has all 7 physical ports, because lot of components are already integrated in one case.
- 30. Yes, the spare parts which are normally delivered during the standard warranty period.

Date: June, 25<sup>th</sup> 2007

- 31. Annex II: Technical Specifications – Part III (6-3), page 5, 11, 24, etc. – “...at least one (1) supplier reference regarding the establishment of GNSS networking systems of reference stations with similar

- 31. The similar configuration for the system delivery and installation as CROPOS system means the system which has between 28 and 32 GPS/GLONASS stations (±5 % of 30 CROPOS stations).

configuration and functionality as CROPOS system in the past five (5) years, with the user statement...". Is our assumption correct that your mandatory expectation for a "similar" configuration is a minimum of 30 + 20 GPS/GLONASS stations for a VRS System? If this assumption is not correct please specify the minimum number of GPS/GLONASS stations required.

32. Annex II: Technical Specifications – Part I (6-1), page 38 – "...supplier must give 3 references of software installations in Europe (similar configuration and functionality as CROPOS system)...". Is our assumption correct that your mandatory expectation for a "similar" configuration is a minimum of 50 GPS/GLONASS stations (30 local plus 20 neighboring stations)? If this assumption is not correct please specify the minimum number of stations required.
33. Instructions to Tenderers (2), page 3 – "...to the addresses as indicated in Annex II: Technical Specifications – Part II, DDU (delivered duty unpaid) ...". Delivery of the contractor will be based on DDU, so is our assumption correct that the Contracting authority will be responsible for all IMPORT costs (custom duty and VAT) and IMPORT of the goods offered by the Contractor?
34. Annex II: Technical Specifications – Part III (6-3), page 12 and Annex II: Technical Specifications – Part I (6-1), page 34 – "...software equipment:...processing and adjustment of measuring data, networking solution up to 50 stations on one server...". Is our assumption correct that the minimum number of station observations (GPS: L1, L2, L2C and GLONASS: L1, L2) from 50 CORS should be processed in parallel on one single server?
35. Annex II: Technical Specifications – Part III (6-3), page 23 and Annex II: Technical Specifications – Part I (6-1), page 36 – "...software must generate the following products (services): ...DGPS solution on the basis of code measurements (network solution) ...". Is our assumption correct that the DGPS corrections need to be derived from a network modeled solution and not from a single station (non-modeled) code solution?
36. Annex II: Technical Specifications – Part III (6.3), page 29f, 4.5 – "...The testing will be done by means of various GNSS receivers and GNSS antennas. Testing procedure...". Is our assumption correct that the Contracting authority will provide all necessary GNSS equipment for this field test and will provide details about number of test points and the location of these test points? We also assume that the number of test points is reasonable (e.g. 10 points).
37. Annex II: Technical Specifications – Part III (6.3), page 14, 3.1 – "...The system should provide the networking of reference stations and the computation of real-time corrections on the basis of following

The similar configuration for the data processing and computation of real-time correction data as CROPOS system means the system which has between 47 and 53 GPS/GLONASS stations ( $\pm 5\%$  of ~50 stations which will be included in processing and adjustment).

32. The similar configuration for the data processing and computation of real-time correction data as CROPOS system means the system which has between 47 and 53 GPS/GLONASS stations ( $\pm 5\%$  of ~50 stations which will be included in processing and adjustment).
33. At the customs clearance process the goods concerned will be freed from VAT and duties, in accordance with the PHARE programme rules.
34. Yes, the system should be able to process and adjust measuring data from 50 stations simultaneously on one server as one unit.
35. Yes, the system should generate DGPS solution based on code measurements networked solution.
36. The testing will be performed with equipment provided by SGA which is part of this tender (5 rovers) on 15 points following Annex II, Part III, pages 29-31.
37. The system should provide the networking of reference stations and the computation of real-time corrections on the basis of following procedures:  
Obligatory procedure:

procedures: VRS, FKP, MAC...”. Is our assumption correct that the Software should provide as mandatory Network-RTK data in for of VRS, FKP and MAC and Software not supporting VRS, FKP and MAC doesn't comply?

38. Annex II: Technical Specifications – Part II (6.1), page 34 – e.g. “...final system should be able to process 50 stations...”. Is our assumption correct that all requirements listed in the table of Annex II: Technical Specifications – part I are considered mandatory even if it states “should”?
39. Special Conditions (4), page 4, Article 29 – “...Delivery ... The Contractor shall bear all risks relating to the goods until provisional acceptance at destination...”. Is it possible that subcontractors actually import the goods and delivery to the Contracting authority instead the Contractor?
40. Special Conditions (4), page 3, Article 12 – “...Insurance...The Contractor shall take out an all-in insurance policy for oneself covering an amount equal to...”. It is not clear what this “Insurance” is referring to. What is “all-in insurance” referring to?
41. Annex I: General Conditions (5), page 3, Article 6 – “...Subcontracting...The Contractor shall not subcontract without the prior written authorization...”. Is our assumption correct that during the tender phase the tenderer may choose a subcontractor and specify in a so-called teaming agreement the roles and responsibilities and there is no need to request a written authorization through the Contracting authority? In addition is our assumption correct that a written authorization is only required if the tenderer will become the Contractor and will chose then a new subcontractor?
42. Annex V: Model Performance Guarantee (related to after-sales services) (9.2) – “...performance guarantee mentioned in Article 15 of the Special Conditions...”. But “Special Conditions” don't list Article 15. Which Article is the performance guarantee referring to?

- VRS (Virtual Reference Station),

Optional procedures:

- FKP (Flächenkorrekturparameter),
- MAC (Master Auxiliary Concept).

38. „Should“ in Annex II, Technical Specifications – Part I, means mandatory.
39. Subcontractors do not bear the legal responsibility for the Contract implementation, therefore import of goods and their delivery is the obligation of the Contractor.
40. The insurance policy is required to cover the carriage of the supplies to the place of delivery. It's the Contractor's responsibility to arrange the proper insurance.
41. Yes, the tenderer may choose the subcontractor at the tendering stage, but it's eligibility would also be the subject of verification by the Evaluation Committee as well as it's situation versus the requirements of the PRAG, section 2.3.3. Contracting Authority will finally provide it's decision regarding endorsement of the subcontractor at the contracting stage.
42. It is referring to the Article 11 of the Special Conditions.