



---

*Maršala Tita 25, 71000 Sarajevo*

Ref: 150-15-4-347-7/18  
Sarajevo, 19.03.2018

**CGI IT UK Limited**  
**250 Brook Drive, Gren park**  
**Reading, RG2 6UA**  
**England**

**RE: Invitation for the Bid submission in the negotiation process for the procurement of the service – the maintenance of the Gyro Clearing and Real Time Gross Settlement systems, by the negotiation process without a notification announcement (Stages I, II and III)**

Dear Madame/Sir,

According to the Decision of the Central Bank of Bosnia and Herzegovina on starting the process of the public procurement of services – **The maintenance of Gyro Clearing and Real Time Gross Settlement systems, by the negotiation process without a notification announcement, ref: UV-150-01-1-2-/18 DM dated 30.01.2018**, we hereby invite you to submit your Bid.

### **1 Description of the Subject of Procurement**

**The subject of this process** is the procurement of services – **The maintenance of the Gyro Clearing and Real Time Gross Settlement systems**, according to the technical specification provided in **Annex VI**.

The procurement is divided into the Lots, as it follows:

LOT 1 – Maintenance of the Gyro Clearing system, in the estimated value of KM 440,000.00 and  
LOT 2 – Maintenance of the Real Time Gross Settlement system, KM 950,000.00.

The total estimated value: KM 1,390,000.00.

**Designation and name from the single public procurement vocabulary:** 48000000-8 – Programme packages and information systems.

### **I Stage**

### **2 Contents and the Way of Preparing the Bid**

**The Bid together with the relevant documentation shall be prepared in English. In preparing the Bid, the Bidder has to adhere to the requirements and conditions from the Tender Documentation. The Bidder cannot change or supplement the wording of the Tender Documentation.**

**The Bid has to include the following:**

- The Statement on the Fulfilment of the Conditions from Article 45 of the Public Procurement Law – **Annex I** (with which, the copies of the documents from point 5, sub-points a), b), c) and d) are submitted);
- The written Statement from Article 52 – **Annex II**;
- The filled in form for the Bid submission – **Annex III**;
- The filled in form for the Bid initial price – **Annex IV**;

**Note: If the bidder, according to the regulations of the country from which he comes, is unable to provide any of the documents or all documents referred to in Article 45 of the Public Procurement Law, it is necessary to submit a signed Statement, stating which of the documents in question, he is not able to submit.**

**3 The way of submitting the Bid and the Bid validity**

**The final deadline for submitting the Bid is 23 March 2018, until 11.00 hours. The Bid shall be submitted at the address: Centralna banka Bosne i Hercegovine, Maršala Tita 25, 71000 Sarajevo. The Bid should be valid for minimum 120 days, counting from the final deadline for the Bid submission.**

The documentation which is submitted shall be **firmly bound into a whole** in a way to prevent subsequent taking out or inserting of the sheets. The firm binding means the binding with **the security cord** (notary rope) or **the book firm binding with covers**.

After receiving the documentation, the commission in charge of implementing the process shall carry out the control and evaluation of it in respect of checking the qualifications of Bidders.

**4 Currency of the Bid**

The Bid price shall be denominated in EUR.

**5 In order to be qualified for the Contract assignment, it is necessary that you meet the conditions from Article 45 of the Public Procurement Law, so the Bidder is obliged, with purpose of proving the personal ability, to prove that:**

a) it has not been convicted by the valid judgment in criminal proceedings for the criminal offences of organized crime, corruption, fraud or money laundering, in accordance with the applicable regulations in Bosnia and Herzegovina or the country where it is registered;

b) it is not bankrupt or not subject to bankruptcy proceedings, except in case of the existence of the applicable decision on the confirmation of the bankruptcy plan, or it is subject of liquidation process, i.e. is in the process of suspending the business activity, according to the applicable regulations in Bosnia and Herzegovina or the country where it is registered;

c) it has fulfilled the obligations related to the payment of the pension and disability insurance and health insurance, in accordance with the applicable regulations in Bosnia and Herzegovina or the country where it is registered;

d) it has settled the obligations related to the payment of direct and indirect taxes, in accordance with the applicable regulations in Bosnia and Herzegovina or the country where it is registered.

With purpose of proving the requirements from points a) to d), the Bidder is obliged to submit **the filled in statement, verified by the competent authority**, which is the integral part of this Tender Documentation (**Annex I**), with which it will submit the copies of the documents mentioned under points a), b), and c) and d).

**Note: If the bidder, according to the regulations of the country from which he comes, is unable to provide any of the documents or all documents referred to in Article 45 of the Public Procurement Law, it is necessary to submit a signed Statement, stating which of the documents in question, he is not able to submit.**

## **6 Disqualification on the Basis of Conflict of Interest or Corruption**

According to Article 52 of the Public Procurement Law, the contracting party is obliged to decline the Bid if the Applicant/Bidder has given or is willing to give bribe to the current or former employee of the contracting party in the form of money or in any non-pecuniary form, with the aim to influence an action, decision or the development of the public procurement process.

Related to this, each Applicant/Bidder is obliged to submit, with the application for participation, also a special written statement declaring that it has not offered bribe or participated in any actions aimed at corruption in the relevant public procurement.

Applicant/Bidder is obliged to prepare the mentioned statement and submit it according to the form from (**Annex II**) of this Tender Documentation, verified and signed by the Applicant/Bidder and verified by the competent authority.

In case the Bid is submitted by a group of Applicants/Bidders, the mentioned statement is submitted by the Lead Applicant/Bidder in the group – the authorised representative of the group of Applicants/Bidders for all the members of the group of Applicants/Bidders.

## **7 The Cost of the Bid and Takeover of the Tender Documentation**

The cost of preparing the Bid for the participation and submission of the Bid shall be entirely born by the Applicant/Bidder.

This Tender Documentation shall be forwarded to the Bidder.

**Note: All the interested Bidders which take over this Tender Documentation from the web site of the contracting party, are obliged to send the information on the Bidder (name, seat, contact address, telephone and email) by e-mail: [dalibor.matic@cbbh.ba](mailto:dalibor.matic@cbbh.ba) and email: [sanela.mahmutovic@cbbh.ba](mailto:sanela.mahmutovic@cbbh.ba) for communication during the procurement process and possible delivery of notices, replies to enquiries, information on possible received complaints etc...**

## **8 Correction and/or Amendment of Tender Documentation, Requests for Clarifications**

Applicants/Bidders may require, in writing, an explanation of the Tender Documentation from the contracting party.

The contracting party will prepare a reply in writing and submit it to all the Applicants/Bidders which have taken over the Tender Documentation or for which it has the information that they have taken it over in one of the ways defined by this Tender Documentation within three days, and not later than five days before the expiry of the deadline for submitting Bids, and the name of the business entity which required the explanation shall not be mentioned in the reply on the clarification.

The contracting party may at any time, and not later than 5 days before the expiry of the deadline for the submission of the Bids/applications for participation, for justified reasons, either at its own initiative, or as a reply to the request of a business entity for explanation, or according to the order of the BH Procurement Review Body, change the Tender Documentation. It is obliged to inform on all the amendments of the Tender Documentation all the potential Applicants/Bidders for which it knows that they have taken over the Tender Documentation in one of the ways mentioned in this Tender Documentation.

In case the amendment of the Tender Documentation is such that the preparation of the Bid/application for participation will require some additional time, it is obliged to prolong the deadline for the receiving of the Bids/applications for participation, as adequate to the amendments made, but by 7 days at least.

## **Stage II**

### **9 Negotiation Process**

After the commission examines the submitted Bid and the documentation from **Stage 1** and concludes that the qualifications are met, it will arrange the negotiations with your representative, by electronic way (mail). For that purpose, it is necessary that you submit, in the Bid submission form (**Annex III**), the contact data, name and family name and e-mail address of the person who will be authorized to negotiate with the commission on behalf of the Bidder.

The negotiations will be arranged on the same day **23 March 2018, beginning at 13.00 hours**, when the authorised representative of the commission conducting the negotiations will contact you in the above mentioned way and by the contact e-mail which you submit.

## **Stage III**

### **10 Submission of the Final Bid**

After completing the negotiations, the commission will send a request by e-mail to the authorised person of the Bidder who is authorised to negotiate with the commission, for the submission of the final Bid.

After receiving this request, the Bidder is obliged to submit the final Bid –**The Bid final price form (Annex V)**, filled in according to the requirements stated in it, and according to the achieved negotiations (scanned by e-mail after the completion of the negotiations), and the Bidder shall submit the original final Bid subsequently, by mail to the address stated in point 3 of this Tender Documentation.

### **11 Contract Assignment Criteria**

The criterion for assigning the Contract is the lowest price.

## **12 Contract Assignment**

The criterion for assigning the Contract is the lowest price. Upon the completion of **I and II Stages**, if the Central Bank makes a decision on the Contract assignment, i.e. assigns the Contract to the invited Bidder in this public procurement process, the Bidder is obliged, before concluding the Contract, to submit **the original documentation or verified copies by the competent authority of the country where the Bidder is registered, with purpose of proving the facts from the statement (Annex I)**, as it follows:

a) certificate from the criminal records of the competent court that it has not been convicted by the valid judgment in criminal proceedings for the criminal offences of organized crime, corruption, fraud or money laundering, in accordance with the applicable regulations in Bosnia and Herzegovina or the country where it is registered;

b) certificate or confirmation from the records where the facts are recorded that it is not bankrupt or not subject to bankruptcy proceedings, except in case of the existence of the applicable decision on the confirmation of the bankruptcy plan or it is subject of liquidation process, i.e. is in the process of suspending the business activity, according to the applicable regulations in Bosnia and Herzegovina or the country where it is registered;

c) certificates by the competent tax authority or, if the Bidder is not registered in Bosnia and Herzegovina, confirmation or certificate from the records on the basis of which it can be concluded that it properly fulfils the obligations related to the pension and disability insurance and health insurance;

d) certificates of the competent institution(s) on the properly settled obligations related to direct and indirect taxes.

In case the Bidder has a concluded agreement on the rescheduling of obligations, i.e. postponed payment, on the basis of the contributions for pension-disability insurance, health insurance, direct and indirect taxes, it is obliged to submit the certificate of the competent institution(s) that the Bidder settles its rescheduled obligations according to the defined plan. If the Bidder has concluded an agreement on the rescheduling of obligations or postponed payment of obligations and carried out only one payment of the obligations, immediately before the Bid submission, it is not considered that it settles its liabilities according to the defined plan and such Bidder shall not be qualified in this public procurement process.

If the Bid is submitted by a group of Bidders, each member of the group must meet the conditions in respect of personal ability and the evidence is submitted for each member of the group separately.

The evidence which the selected Bidder is obliged to submit have to include **the confirmation that in the moment of submitting the Bid, it fulfilled the requirements of the Tender Documentation**. Otherwise, it will be considered that it has given a false statement. **The original evidence on the fulfilment of the requirements must be submitted within seven days, from the day of receiving the notice on the results of this public procurement process**. The selected Bidder must meet all the requirements in the moment of submitting the Bid, otherwise it will be considered that it has given a false statement from Article 45 of the Law.

**Note: If the bidder, according to the regulations of the country from which he comes, is unable to provide any of the documents or all documents referred to in Article 45 of the Public Procurement Law, it is necessary to submit a signed Statement, stating which of the documents in question, he is not able to submit.**

**13 Annexes**

- I. Statement,
- II. Statement,
- III. Filled-in form for the Bid submission,
- IV. The filled in form for the Bid initial price,
- V. The filled in form for the Bid final price,
- VI. Technical specification.

Sincerely,



*Ernadina Bajrović*  
**Vice Governor**

**Ernadina Bajrović, M.A.**

**The statement of the fulfilment of the conditions from Article 45 paragraph (1) points from a) to d) of the Law on Public Procurements (Official Gazette of BiH, 39/14)**

I, the undersigned \_\_\_\_\_ (name and family name), with personal identification card no: \_\_\_\_\_ issued by: \_\_\_\_\_, as a representative of the business company or economic activity or similar activity, i.e. a representative of the Bidder: \_\_\_\_\_ (to state the position, the name of the business company or economic activity or similar activity), ID number: \_\_\_\_\_, the seat of which is in \_\_\_\_\_ (town/municipality), at the address \_\_\_\_\_ (street and number), as a candidate/Bidder in the process of public procurement \_\_\_\_\_ (to state the exact name and kind of public procurement process), which is carried out by the Contracting party: \_\_\_\_\_ (to state the exact name of the Contracting party), for which the notice on public procurement has been published (if the notice has been published) ref. no: \_\_\_\_\_ in Official Gazette of BiH, \_\_\_\_\_, according to Article 45 paragraphs (1) and (4) **with full material and criminal responsibility**

**HEREBY DECLARE**

Applicant/Bidder \_\_\_\_\_ in the mentioned process of public procurement, which I represent:

- a) Has not been convicted by the court sentence in criminal proceedings for the criminal offences of organized crime, corruption, fraud or money laundering, in accordance with the applicable regulations in BH, or the country where it is registered;
- b) Is not bankrupt or subject to bankruptcy proceedings, or subject of liquidation process;
- c) Has not failed to fulfil the obligations relating to the payment of pension and disability insurance and health insurance, in accordance with the applicable regulations in BH or in the country where it is registered;
- d) Has not failed to fulfil the obligations relating to the payment of direct or indirect taxes, in accordance with the applicable regulations in BH, or in the country where it is registered.

As per above I am aware of the liability of the Applicant/Bidder to deliver, in case of awarding the Contract, the documents from the Article 45, paragraph (2) points a) to d) at the request of the Contracting party and in the deadline defined by the Contracting party pursuant to the Article 72 paragraph (3) point a).

Further on, I declare that I am aware that the counterfeiting of the official document, i.e. use of inaccurate official or business document, book or file in the business or activity, as they are accurate, represent the criminal act defined by the Criminal Code

in BH, and that the presentation of incorrect data in documents trying to prove the personal capability as specified under Article 45 of the Public Procurement Law represents the law offence, sanctioned by the fines from KM 1,000.00 to KM 10,000.00 for the Bidder (legal person) and from KM 200,00 to KM 2,000.00 for the responsible person of the Bidder.

I also declare that I am aware that the Contracting party which carries out the mentioned process of public procurement according to Article 45 paragraph (6) of the Public Procurements Law, in case of doubting the correctness of the data provided by this Statement, retains the right to check the accuracy of the presented information with the competent authorities.

The Statement provided by:

\_\_\_\_\_

Place and date of giving the Statement:

\_\_\_\_\_

Signature and seal of the competent authority (certification of the municipality or notary):

\_\_\_\_\_ P.S.



**WRITTEN STATEMENT FROM THE ARTICLE 52 OF THE PUBLIC  
PROCUREMENT LAW**

I, the undersigned \_\_\_\_\_ (name and family name), with personal identification card no: \_\_\_\_\_ issued by: \_\_\_\_\_, as a representative of the business company or economic activity or similar activity, (of the Bidder) \_\_\_\_\_ (to state the position, the name of the business company or economic activity or similar activity), ID number: \_\_\_\_\_, the seat of which is in \_\_\_\_\_ (town/municipality), at the address \_\_\_\_\_ (street and number), as an Candidate/Bidder in the public procurement procedure \_\_\_\_\_ (to state the exact name and type of public procurement procedure), which is carried out by the Contracting party: \_\_\_\_\_ (to state the exact name of the Contracting party), for which the Notice on public procurement has been published (if the Notice has been published) and according to the Article 52, paragraph (2) of the Public Procurement Law, **with full material and criminal responsibility**

**HEREBY DECLARE**

1. I have not offered a bribe to any person involved in the public procurement process, at any stage of the public procurement process.
  2. I have not given or promised a gift or other benefit to an official or responsible person in the Contracting party, including a foreign official person or an international official, in order to perform in the framework of official competencies, the action that he should not perform or to refrain from performing the actions that should be performed by him or by someone who mediates in the bribery of an official or responsible person.
  3. I have not given or promised a gift or other benefit to official or responsible person in the Contracting party, including a foreign official person or an international official, in order to perform in the framework of his official competencies, the actions that he should perform or refrain from performing the actions which should not be executed.
  4. I have not been involved in any activity aimed at corruption in public procurement.
  5. I have not participated in any action that is aimed at corruption in the course of the procedure of the public procurement.
- By giving this Statement, I am aware of the criminal liability provided for offences of receiving and giving bribe and criminal offences against official and other responsibilities and duties as provided under the Criminal Code of Bosnia and Herzegovina.

The Statement provided by:

\_\_\_\_\_

Place and date of giving the Statement:

\_\_\_\_\_

Signature and seal of the competent body:

\_\_\_\_\_ P.S.

**BID SUBMISSION FORM – FOR SERVICES**

Reference number of the procurement: .....

**CONTRACTING PARTY:** The Central Bank of Bosnia and Herzegovina

The address of the contracting party: 25 Maršala Tita St., 71000 Sarajevo

**BIDDER:****Name:** \_\_\_\_\_**ID number:** \_\_\_\_\_**Address:** \_\_\_\_\_**CONTACT PERSON** (*for this Bid and negotiation*)

<b>Name and Family Name</b>	
<b>Address</b>	
<b>Telephone</b>	
<b>Fax</b>	
<b>E-mail</b>	

**STATEMENT OF THE BIDDER:**

In the public procurement process which you have started, we submit our Bid and declare the following:

1. According to the contents and requirements of the tender documentation no: \_\_\_\_\_ (the reference number of the procurement provided by the Contracting party), by this statement, we hereby accept its provisions entirely without any reserves or restrictions.
2. By this Bid, we respond to the requirements from the tender documentation for providing goods according to the terms and conditions defined in the tender documentation, to the criteria and the set deadlines, without any reserves or restrictions.
3. The total price of our Bid is: \_\_\_\_\_ EUR  
The discount which we provide on the Bid price is: \_\_\_\_\_ EUR  
The price of our Bid with the discount included is: \_\_\_\_\_ EUR

The Bid price form which is filled in according to the requirements from the tender documentation is enclosed. In case of the difference between the prices from this statement and the Bid price form, the price from the Bid price form is relevant. The price is fixed and it will not be changed during the Contract duration.

4. This Bid is valid for \_\_\_\_\_ days, in letters: \_\_\_\_\_ days, counting from the expiry of the period for the Bid acceptance, i.e. until \_\_\_\_\_/\_\_\_\_\_/2018 (date).

If the numbers of days written in numbers and letters are different, the one written in letters is valid).

5. If our Bid is the most successful one in this public procurement process, we are obliged to submit evidence on the qualifications, in respect of personal skills, registration, technical and professional abilities required by the tender documentation and within the defined deadline, which we confirm by the statements in this Bid.

Name and family name of the person authorized to represent the Bidder:

\_\_\_\_\_

The signature of the authorized person: \_\_\_\_\_

Place and date: \_\_\_\_\_

The seal of the company: \_\_\_\_\_

**FORM FOR THE BID INITIAL PRICE**

The name of the Bidder: \_\_\_\_\_

Bid no. \_\_\_\_\_

**LOT 1 – Service of Gyro Clearing system maintenance**

<b>Description</b>	<b>Time period</b>	<b>The total price in EUR for one year</b>
LOT 1 – Service of gyro clearing maintenance (as described in technical specification in Annex VI for LOT 1)	<b>1 year</b>	
<b>THE TOTAL BID PRICE IN EUR:</b>		

Note:

1. The prices need to be specified in EUR. The price has to be specified for every item in the Bid.
2. The price of the Bid is presented without VAT and it includes all the fees, which the Contracting party should pay to the supplier. The Contracting party must not have any additional costs except for those specified in this Form. According to the applicable regulations, the VAT on services is not charged.
3. In case of the difference between the unit price and the total amount, the correction will be carried out according to the unit prices.
4. The unit price of the item is not considered a calculation error, i.e. it cannot be corrected.
5. **Along with this Form for Bid Price, mandatory including a total service at annual level, paid to the supplier, the supplier is liable to deliver the General Price List of the Services and Fees, for the information sake, which shall be the integral part of the Contract.**

Signature and seal of the Bidder \_\_\_\_\_

FORM FOR THE BID INITIAL PRICE

Page \_\_\_\_ of \_\_\_\_\_

The name of the Bidder: \_\_\_\_\_

Bid no. \_\_\_\_\_

**LOT 2 – Service of Real Time Gross Settlement system maintenance**

Description	Time period	Unit price in EUR at annual level	The total price in EUR for two years
(1)	(2)	(3)	(4) = (2) x (3)
LOT 2 – Service of Real Time Gross Settlement system maintenance (as described in technical specification in Annex VI for LOT 2)	<b>2 years</b>		
<b>THE TOTAL BID PRICE IN EUR:</b>			

Note:

1. The prices need to be specified in EUR. The price has to be specified for every item in the Bid.
2. The price of the Bid is presented without VAT and it includes all the fees, which the Contracting party should pay to the supplier. The Contracting party must not have any additional costs except for those specified in this Form. According to the applicable regulations, the VAT on services is not charged.
3. In case of the difference between the unit price and the total amount, the correction will be carried out according to the unit prices.
4. The unit price of the item is not considered a calculation error, i.e. it cannot be corrected.
5. **Along with this Form for Bid Price, mandatory including a total service at annual level, paid to the supplier, the supplier is liable to deliver the General Price List of the Services and Fees, for the information sake, which shall be the integral part of the Contract.**

Signature and seal of the Bidder \_\_\_\_\_

**Annex V**

**FORM FOR THE BID FINAL PRICE**

The name of the Bidder: \_\_\_\_\_

Bid no. \_\_\_\_\_

**LOT 1 – Service of gyro clearing maintenance**

<b>Description</b>	<b>Time period</b>	<b>The total price in EUR for one year</b>
LOT 1 – Service of gyro clearing maintenance (as described in technical specification in Annex VI for LOT 1)	<b>1 year</b>	
<b>THE TOTAL BID PRICE IN EUR:</b>		

Note:

1. The prices need to be specified in EUR. The price has to be specified for every item in the Bid.
2. The price of the Bid is presented without VAT and it includes all the fees, which the Contracting party should pay to the supplier. The Contracting party must not have any additional costs except for those specified in this Form. According to the applicable regulations, the VAT on services is not charged.
3. In case of the difference between the unit price and the total amount, the correction will be carried out according to the unit prices.
4. The unit price of the item is not considered a calculation error, i.e. it cannot be corrected.
5. **Along with this Form for Bid Price, mandatory including a total service at annual level, paid to the supplier, the supplier is liable to deliver the General Price List of the Services and Fees, for the information sake, which shall be the integral part of the Contract.**

Signature and seal of the Bidder \_\_\_\_\_

FORM FOR THE BID FINAL PRICE

Page \_\_\_\_ of \_\_\_\_\_

The name of the Bidder: \_\_\_\_\_

Bid no. \_\_\_\_\_

**LOT 2 – Service of Real Time Gross Settlement system maintenance**

Description	Time period	Unit price in EUR at annual level	The total price in EUR for two years
(1)	(2)	(3)	(4) = (2) x (3)
LOT 2 – Service of Real Time Gross Settlement system maintenance (as described in technical specification in Annex VI for LOT 2)	<b>2 years</b>		
<b>THE TOTAL BID PRICE IN EUR:</b>			

Note:

1. The prices need to be specified in EUR. The price has to be specified for every item in the Bid.
2. The price of the Bid is presented without VAT and it includes all the fees, which the Contracting party should pay to the supplier. The Contracting party must not have any additional costs except for those specified in this Form. According to the applicable regulations, the VAT on services is not charged.
3. In case of the difference between the unit price and the total amount, the correction will be carried out according to the unit prices.
4. The unit price of the item is not considered a calculation error, i.e. it cannot be corrected.
5. **Along with this Form for Bid Price, mandatory including a total service at annual level, paid to the supplier, the supplier is liable to deliver the General Price List of the Services and Fees, for the information sake, which shall be the integral part of the Contract.**

Signature and seal of the Bidder \_\_\_\_\_

**Technical specification for LOT 1 – Gyro Clearing system maintenance**

The procurement subject: maintenance services refers to the following:

**LICENSED PRODUCTS:**

LCSS Gyro clearing system (LCSS GC) version 2.00 or subsequent versions and the accompanying documents. Functions supported by this Licensed product shall be specified in the adequate issue of Functional specifications.

LCSS Gyro clearing system (LCSS GC) version 2.00 Liquidity Monitoring Feature or subsequent versions and the accompanying documents. Functions supported by this Licensed product shall be specified in the adequate issue of Functional specifications.

**LICENCED PRODUCTS OF THE THIRD PARTY**

Following software of the third party:

For GC Center:

- IBM DB2 DBMS (Power 6)
- Reflection for Unix (PC)
- PC Anywhere (PC)
- IBM Tivoli Storage Manager 5.5.

For DR GC Center:

- IBM DB2 DBMS (Power 6)
- Reflection for Unix (PC)
- PC Anywhere (PC)
- IBM Tivoli Storage Manager 5.5.

For each GC Branch:

- IBM DB2 DBMS (Power 6)
- Reflection for Unix (PC)
- PC Anywhere (PC).

For each GC bank - participant:

- Nexus Personal (for the safety, based on smart cards)
- PC Anywhere (PC).



**HARDVER****GC BRANCH – SARAJEVO, MOSTAR, BANJA LUKA****Servers of the following configuration:**

Model	Description	Quan.
8203-E4A	IBM Power 520, Model: 8203 - E4A	
	AIX Partition Specify Op Panel Cable for Rack-mount Drawer w/3.5 DASD POWER GXT135P Graphics Accelerator with Digital Support IBM T117 Flat Panel Monitor 4 x 146 GB 15K RPM SAS Disk Drive 4096MB (2x2048MB) RDIMMs, 667 MHz, 1Gb DRAM Dual-port 1Gb Integrated Ethernet Daughter Card 1-core 4.2 GHz POWER6 Processor Card, 4 Memory DIMM Slots Zero-priced Processor Activation for #5633 IBM 2-Port 10/100/1000 Base-TX Ethernet PCI-X Adapter Half High 800GB/1.6TB LTO4 SAS Tape Drive SATA Slimline DVD-RAM Drive Full Width Quiet Touch Keyboard -- USB, US English, #103P IBM/OEM Rack-Mount Drawer Rail Kit IBM Rack-mount Drawer Bezel and Hardware 2 x Power Supply, 950 Watt AC, Hot-swap, Base and Redundant PowerVM Express DASD/Media Backplane for 3.5 DASD/SATA DVD/Tape Mouse-Business Black with Keyboard Attachment Cable Language Group Specify - US English	3

**GC CENTER – SARAJEVO**

**Equipment of the following configuration:**

Model	Description	Quan.
8203-E4A	<b>IBM Power 520, Model: 8203 - E4A</b>	
	AIX Partition Specify Op Panel Cable for Rack-mount Drawer w/3.5 DASD Primary OS - AIX POWER GXT135P Graphics Accelerator with Digital Support 2 x 146 GB 15K RPM SAS Disk Drive 4096MB (2x2048MB) RDIMMs, 667 MHz, 1Gb DRAM Rack Indicator- Not Factory Integrated Dual-port 1Gb Integrated Ethernet Daughter Card 2-core 4.2 GHz POWER6 Processor Card, 4 Memory DIMM Slots One Processor Activation for Processor Feature #5634 Zero-priced Processor Activation for #5634 IBM 2-Port 10/100/1000 Base-TX Eth PCI-X Adapter SATA Slimline DVD-RAM Drive 2 x 4 Gigabit PCI Express Single Port Fibre Channel Adapter IBM/OEM Rack-Mount Drawer Rail Kit IBM Rack-mount Drawer Bezel and Hardware 2 x Power Supply, 950 Watt AC, Hot-swap, Base and Redundant 2 x PowerVM Express DASD/Media Backplane for 3.5 DASD/SATA DVD/Tape Language Group Specify - US English	2
1814-70A	<b>DS4700 Storage Express Model 70 (2 GB Cache)</b>	
	2 x (26K7941) SW 4Gbps SFP transcvr pair 7 x (40K6820) 4 Gbps FC, 146.8 GB/15K E-DDM 4 x (39M5697) Fiber Cable 5m Multimode (LC-LC) (41Y5184) DS4700 AIX/VIOS Host Kit DS4700 Mod 70 2-Storage Partitions Activation	1
7316-TF3	<b>IBM 7316-TF3 Rack-Mounted Flat Panel Console Kit</b>	
	2 x USB Conversion Option IBM 1x8 Console Switch Language Group Specify - US English	1
3573-L4U	<b>TS3200 Tape Library Express</b>	
	Path Failover 2 x 13m LC/LC Fibre Channel Cable Rack Mount Kit Ultrium Cleaning Cartridge L1 UCC 2 x Ultrium 4 Fibre Channel Drive Ultrium 4 Data Cartridge (5-pack) Attached to IBM AIX System 2.8m Power Cord 250V France/Germany Rack to PDU Line Cord	1
2498-B24	<b>IBM System Storage Switch SAN24B-4 Express</b>	
	4 Gbps SW SFP Transceiver 8-Pack 2 x Fibre Cable LC/LC 5m multimode	1

**GC DR SITE – BANJA LUKA**

**Equipment of the following configuration:**

Model	Description	Quan.
8203-E4A	<b>IBM Power 520, Model: 8203 - E4A</b> AIX Partition Specify Op Panel Cable for Rack-mount Drawer w/3.5 DASD POWER GXT135P Graphics Accelerator with Digital Support IBM T117 Flat Panel Monitor <b>2 x</b> 146 GB 15K RPM SAS Disk Drive 4096MB (2x2048MB) RDIMMs, 667 MHz, 1Gb DRAM Rack Indicator- Not Factory Integrated Dual-port 1Gb Integrated Ethernet Daughter Card 2-core 4.2 GHz POWER6 Processor Card, 4 Memory DIMM Slots One Processor Activation for Processor Feature #5634 Zero-priced Processor Activation for #5634 IBM 2-Port 10/100/1000 Base-TX Eth PCI-X Adapter SATA Slimline DVD-RAM Drive <b>2 x</b> 4 Gigabit PCI Express Single Port Fibre Channel Adapter 4 Gigabit PCI Express Dual Port Fibre Channel Full Width Quiet Touch Keyboard – USB IBM/OEM Rack-Mount Drawer Rail Kit IBM Rack-mount Drawer Bezel and Hardware <b>2 x</b> Power Supply, 950 Watt AC, Hot-swap, Base and Redundant <b>2 x</b> PowerVM Express DASD/Media Backplane for 3.5 DASD/SATA DVD/Tape Mouse - Business Black with Keyboard Attachment Cable Language Group Specify - US English	<b>1</b>
1814-70A	<b>DS4700 Express Model 70 (2 GB Cache)</b> (26K7941) SW 4Gbps SFP transvers pair <b>7 x</b> (40K6820) 4 Gbps FC, 146.8 GB/15K E-DDM <b>2 x</b> (39M5697) Fiber Cable 5m Multimode (LC-LC) (41Y5184) DS4700 AIX/VIOS Host Kit DS4700 Mod 70 2-Storage Partitions Activation	<b>1</b>
3573-L4U	<b>TS3200 Tape Library Express</b> Path Failover <b>2 x</b> 13m LC/LC Fibre Channel Cable <b>2 x</b> Ultrium 4 Fibre Channel Drive	<b>1</b>

## **OPERATIVE SOFTWARE**

Operative software is composed of:

- Licence for AIX operative system
- Licence for communication software

## **ACCESS POINTS**

There are 25 access points.

## **PLACE OF DELIVERY OF THE BASIC SOFTWARE VERSIONS AND THE UPGRADES**

Basic versions of the software and the upgrades shall be delivered at the following address:

Maršala Tita str., 25  
71000 Sarajevo  
Bosnia and Herzegovina

## **SITES:**

Addresses of the CBBH buildings where the System is installed:

Main site: Mehmeda Spahe 3, Sarajevo  
DR site: Vidovdanska 19, Banja Luka  
GC in Branches : Sarajevo, Banja Luka, Mostar

## **MAINTENANCE DAYS:**

"Maintenance days" are defined as all days in week except Saturday, Sunday and official holidays in Bosnia and Herzegovina.

## **MAINTENANCE PERIOD:**

Standard maintenance time is 8:00 AM to 5:00 PM , Bosnia and Herzegovina time, each day which is defined as "the Maintenance day".

## **BEGINNING OF THE CONTRACT:**

Support services should start on 13 December 2017.

**Technical specification for LOT 2 – Real Time Gross Settlement system maintenance**

The procurement subject: maintenance services refers to the following:

**LICENCED PRODUCTS**

LCSS Central accounting system (LCSS CAS) version 3.80 or subsequent versions and the accompanying documents. Functions supported by this Licensed product shall be specified in the adequate issue of Functional specifications.

LCSS Central accounting system (LCSS CAS) version 3.80 or subsequent versions and the accompanying documents for the following licensed options of the product:

- File Account Transfer
- General Ledger Export
- End of Day Netting
- Multiple Standby Database (MSDB)

The maintenance service should also include on-site support during the installation of new versions of CAS software on the primary and DR sites at weekends, as well as on-site support during the first day of live work with the new version of CAS software.

**LICENCED PRODUCTS OF THE THIRD PARTY**

Following software of the third party being support to LCSS CAS:

Oracle TUXEDO Enterprise Transaction Processing System.

Informix's On-line Relational Database Management System (RDBMS), TP/XA, and Embedded SQL for C.

Licences for the use of TUXEDO and Informix shall be used pursuant to the permit of their owners, Oracle and IBM, respectively. The CBBH shall bound itself to adhere to the licence terms and conditions of the owners.

Informix Connect 3.70 licence are needed for the support of 8 CAS work stations.

4 x AIX 7 Standard Edition.

4 x PowerVM Standard Edition.

## HARDWARE

Table below features the hardware description:

SARAJEVO 2 x Server IBM Power System IBM S822, Model: 8284-22A

BANJA LUKA 2 x Server IBM Power System IBM S822, Model: 8284-22A

Technical specification of server is as follows:

Model	Description	Total (pcs)
8284-22A	Server IBM Power System IBM S822, Model: 8284-22A	
	1 x 4-Core 3.02 GHz POWER8 processor 64 GB DDR3 or of DDR4 memory 9 x 300GB 15k RPM SAS SFF-3 disc drive SAS/SATA integrated controller SAS RAID Enablement 1 x DVD RAM drive 1 x PCIe2 LP 4-port 1GbE Adapter 1 x PCIe LP 8Gb 2-Port Fibre Channel Adapter 2 x USB 3.0 ports for general use 2 x USB 2.0 ports for FSP service processor 2 x Hardware Management Console (HMC) ports 1 x serial port Redundant hot-swap supply Redundant hot-swap fans Service processor Rack mountable	4

## **OPERATIVE SOFTWARE**

On each of the physical servers, an IBM Power VM environment, that supports virtualization, is installed. Within the IBM Power VM environment, three virtual servers are configured for the work of the RTGS production and testing systems. These three independent virtual servers use IBM AIX operative systems.

## **PLACE OF DELIVERY OF THE BASIC SOFTWARE VERSIONS AND THE UPGRADES**

Basic versions of the software and the upgrades shall be delivered at the following address:

Maršala Tita str., 25  
71000 Sarajevo  
Bosnia and Herzegovina

## **SITES:**

Addresses of the CBBH buildings where the System is installed:

Main site: Mehmeda Spahe 3, Sarajevo  
DR site: Vidovdanska 19, Banja Luka

## **MAINTENANCE DAYS:**

"Maintenance days" are defined as all days in week except Saturday, Sunday and official holidays in Bosnia and Herzegovina.

## **MAINTENANCE PERIOD:**

Standard maintenance period is from 8:00 AM to 5:00 PM , Bosnia na Herzegovina time, each day which is defined as "the Maintenance day".

## **BEGINNING OF THE CONTRACT:**

Support services should start on 8. December 2017.