

# Tbilisi State Medical University



## **Equipment for medical use (With related service) (CPV33100000)**

**Under the N01/162-87 contract, which is signed between Tbilisi State  
Medical University and Agency of Educational and Scientific  
Infrastructure Development, on the basis of the funds  
procurement with  
Electronic Tender**

**Tender Documentation**

**Tbilisi  
2015**

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## **1. Instruction/Manual for E-tender Participants**

- 1.1 . Electronic procurement is conducted through the Unified Electronic System of State Procurement;
- 1.2 . Law of Georgia on “State Procurements” and “Simplified procurement, simplified electronic tender and approval electronic tender Conduction Rule” approved under the order N 9 dated 7 April 2011 issued by the chairman of State Procurements Agency shall be the basis for procurement procedures implementation within unified electronic system of State Procurements.
- 1.3 . All documents or/and information concerning to e-tender should be provided in Georgian language. If documents or information are represented in foreign language, they should be enclosed by notarially proved Georgian translation. In case of dispute, decision on giving priority to documents in foreign language or their Georgian translations shall be accepted by Tender Comission.
- 1.4 . The document or/and information uploded in the Unified Electronic System of State Procurement shall be signed or/and sealed by the authorized person.
- 1.5 . Form and terms of the Contract are given in tender documentation that will be corrected according tender proposal at the moment of signing the Contract
- 1.6 . The pretender has no right to offer an alternative proposal.

## 2. Qualification Requirements

2.1. According to the qualification requirements a pretender should submit the following documents:

2.1.1. For both as legal as natural persons:

a) Certificate issued by the National Agency of Public Registry of Georgia on non-existence of legal restriction (sequestration) on the property.

2.2. The date of issuing the qualification documents represented by the administrative bodies shall not precede the date of granting the status “Bidding Commenced” but in case of a non-resident bidder, the qualification documents should be issued no later than 30 days before granting the mentioned status.

2.3. The qualification documents envisaged under sub-item 2.1. of this paragraph, represented by administrative bodies, in originals or notarially proved copies, should be presented from requirement no later than 5 (five) working days. A non-resident bidder(s) should submit the documents proving qualification data issued by the appropriate authorities of their country, enclosed by notarially proved Georgian translation of these documents.

2.4. A bidder can submit supplier qualification documents to a procuring entity by using the System in the format set forth under the legislation of Georgia. In case of failure to submit supplier qualification documents by bidder and/or in case of the submission of imperfect data a tender committee shall be obligated to disqualify such bidder.

### 3. Technical Documentation

- 3.1. Pretender should submit the requisites, bid proposal expiry date according to the Annex #1, and bid proposal price, according to the Appendix N2;
- 3.2. Terms of payment:
  - 3.2.1. In bid proposal general price should be calculated according to the all taxes associated with supply of purchasing object under the legislation of Georgia.
  - 3.2.2. Form of payment – Bank transfer
  - 3.2.3. Payment shall be carried out within no later than 20 working days after submission of the documents on supply of goods (overhead and invoice) and after drawing respective delivery-acceptance certificate.
  - 3.2.4. Advance payment - not used;
- 3.3. Technical parameters for the object of purchase:
  - 3.3.1. Buying a unit Under the N01/162-87 contract on the basis of the funds, high-performance medical equipment with related services.
  - 3.3.2. Number of goods and minimal characteristics are given in Annex №3;
  - 3.3.3. Warranty period of the object of purchase should not be less than 2 years.
  - 3.3.4. Together with the proposal pursuant to the obligatory rule in the system pretender has to upload:
    - 3.3.4.1. Quality certificate (ISO and CE or FDA) of procurement object;
    - 3.3.4.2. Catalogues, instructions, booklet, or similar documentation of procurement object confirming conformity with tender requirements. In the event of having differences between tender proposal and catalogue/passport the supplier has to present written confirmation of producer with regard correction-conformity to parameters.
  - 3.3.5 Concurrent service includes:
    - 3.3.5.1. Installation/mounting;
    - 3.3.5.2. Training of personnel;
    - 3.3.5.3. If essential phone consultation;
  - 3.3.6. Supplier has to provide installation of procurement object with necessary spare parts;
- 3.4. Conditions and terms of delivery:
  - 3.4.1. Delivery should be carried out to Al. Aladashvili Clinic of Tbilisi State Medical University, on the address: # 4 Gudamakari Str., Tbilisi.
  - 3.4.2. Delivery should be performed within 40 days from signing the Contract;
  - 3.4.3. Object of purchase should be similar to basic characteristics (Appendix # 3), equivalent.
  - 3.4.4. Bid the contract will be used to provide a bank guarantee, 2% guarantee of the total value of contract, in accordance with Annex N4.
  - 3.4.5. The provision of a bank guarantee of 70 Calendar days shall not exceed the contractual delivery time frame.
  - 3.4.6. **“if the final price of candidate will be 20% or less than estimate value of procurement, applicant must prove the adequacy of expertise about bidding price, or invoice, signed agreements, or the other document about product supply, which is confirm pretendent tender bid price, (Chairman of the State Procurement Agency, approved April 7, 2011 №9 "simplified procurement, simplified electronic tender and electronic tender procedures," the Chairman of the Agency in accordance with paragraph 21 of Article 11)“.**
- 3.5. **A Bidder confirms the terms given in bid documentation (including supply and payment terms) and this confirmation should be uploaded to the electronic system.**

**DRAFT CONTRACT ABOUT STATE PROCUREMENTS**

**This document is draft contract about state procurements that will be conducted as a result of holding electronic tender. Conditions of this contract will be defined according to the tender proposal of winner pretender and at the same time as its integral part will be attached to contract.**

**CONTRACT #**

Tbilisi

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On the one hand Tbilisi State Medical University, located in: # 33 Vazha Pshavela Ave, Tbilisi (hereinafter referred to as “the purchaser”) represented by Chancellor of TSMU ----- and on the other hand \_\_\_\_\_, (hereinafter referred to as “the supplier”), represented by \_\_\_\_\_, acting under the basis of active legislation of Georgia, simplified electronic tender conducted by purchaser (SPA -----), conclude this contract as follows:

**1. Object of Purchase**

1.1. The object of purchase is under the N01/162-87 contract on the basis of the funds high-performance medical equipment with related services \_\_\_\_\_

**2. Total Price of the Contract**

- 2.1. Total price of the Contract amounts ----- (-----) GEL.
- 2.2. Total price of the Contract includes all taxes stipulated by the acting legislation of Georgia

**3. Procurement Object Delivery Terms, Place and Conditions**

3.0. Procurement object delivery shall be made within the term of \_\_\_\_\_, after concluding the contract;

3.2. Place of procurement object delivery -----on the address:  
\_\_\_\_\_

**4. Validity of the Contract**

4.1. Contract shall come into force upon its signing by the parties and shall be valid including \_\_\_\_\_, till full and proper performance of obligations determined under the contract

**5. Rules of Delivery-Acceptance for Procurement Object**

5.1. Acceptance of procurement object shall be registered by delivery-acceptance certificate confirmed by signatures of the appropriately authorized representatives of both “the purchaser” and “the supplier parties.

5.2. In addition to conclusion of delivery-acceptance certificate, the “purchaser” should be provided with all other documents necessary for payment.

## 6. Contract Object Quality and Warranty

- 6.1. The supplier shall undertake responsibility on the compliance of procurement object to the standards;
- 6.2. Quality of the procurement object should be in accordance with the requirements of the purchaser;
- 6.3. "The purchaser" is obliged to inform "the supplier" on discovery of defects, immediately in writing;
- 6.4. After providing information, "the supplier" is liable to eliminate the defects within the warranty period indicated by purchaser, with his/her own costs or substitute a new sample for the damaged one. Supplier shall be liable to eradicate detected defects of procurement object and to compensate damage caused to purchaser and the third parties as a result of aforesaid defects.
- 6.5. In case of non-fulfillment of the assumed liabilities by "supplier" after providing information on eradication of damage, "purchaser" has the right to redress given defects with the expenses of "supplier".

## 7. Form of Payment, Schedule (Terms)

- 7.0. Payment to "supplier" shall be provided in GEL;
- 7.2. Cost of procurement object shall be covered via bank transfer;
- 7.3. There is not considered in advance payment;
- 7.4. "Purchaser" shall provide payment after submission of documents on supply of procurement object - delivery-acceptance certificate, overhead and invoice (if supplier is VAT-payer she/he should submit appropriate certificate from LEPL "Revenue Service"), conclusion of control group within no later than ----- (-----) days.
- 7.5 If "supplier" violates terms determined according to the contract, in this event he/she will have to pay a fine, "purchaser" is entitled to refuse meeting of substitutive obligations until supplier does not provide complete payment of fine.

## 8. Rights and Liabilities of the Parties

- 8.1. "Purchaser" has the rights:
  - To check the compliance of **procurement object** with the terms envisaged under this Contract;
  - To provide monitoring and supervision over fulfillment of the terms of the contract by the supplier; - To refuse getting defective **procurement object**.
- 8.2. "Purchaser" is obliged:
  - To inform "supplier" of any special circumstances pertaining to the **object of procurement** in writing;
  - To perform payment with "supplier" in accordance with the terms envisaged by this contract;
  - To keep with the other terms assumed by this Contract.
- 8.3. "Supplier" has the rights:
  - To demand from "purchaser" the transfer of the amount for **procurement object** under the terms stipulated by this Contract;
- 8.4. "Supplier" is obliged:
  - To notice "purchase" about the delay in supply of **procurement object**;
  - To keep all the conditions assumed by this Contract.

## 9. Responsibilities of the Parties in Case of Breaching the Contract

- 9.1. Non-fulfillment of the assumed liabilities by the parties will result in bringing to account under the applicable law of Georgia;
- 9.2. In case of breach of assumed liabilities under the Contract by either party, then the other party of the agreement may request termination of the Contract after unsuccessful passing of additional term detected for fulfillment of assumed obligations (written form is used to detect the extra term). If an additional term can not be used due to the nature of the obligation then it might be equal to the warning.
- 9.3. At termination of the Contract, one party may require reimbursement for the harm caused due to

non-fulfillment of the assumed obligations undertaken pursuant to the contract by the other party.

9.4. Termination of contract and reimbursement are regulated by the Civil Code of Georgia

9.5. In case of breach of the execution of the liabilities stipulated by this contract, the party breaching mentioned condition shall be imposed a forfeit to the amount of 10% of contract value.

9.6. In case of breach of the deadline for the execution of the liabilities stipulated by this contract, "supplier" shall be imposed a forfeit to the amount of 0,3% (zero point three tenth) of the procurement object price for each overdue date, but no less than 10 (ten) GEL.

9.7. In case of breach of Article 5.1. under this Contract "the purchaser" reserves the right to impose a forfeit from total price of the Contract and transfer it to appropriate account number. In the case of phased payment, imposing a forfeit shall be carried out from the amount of the according phase.

9.8. Non-using of the Article 9.7. does not deprive the right of "purchaser" to impose a forfeit to "supplier".

## **10.Warranty on Execution of Contract**

10.1 In order to avoid risk due to non-execution of contract about state procurements by supply, following type of warranties is applied in tender – bank guarantee by the amount of 2% of total price of contract.

10.2 In the event of violation (refusal on fulfillment of obligations determined according to the contract, violation of terms determined pursuant to contract, bed, improper and incomplete fulfillment of obligation and other) of obligations by supplier determined pursuant to the contract the sum determined according to the bank guarantee will not be returned to supplier.

10.3. Expiration date of bank guarantee should exceed to final term of supply of procurement object for minimum 30 days.

10.4 Bank guarantee given to supply for the provision of contract in the event of complete and proper fulfillment of obligations determined pursuant to the contract will be returned to supply after drawing final delivery and acceptance document of procurement object between the parties within 5 calendar days.

10.5. If contract is terminated irrespective of any reasons of supply the purchasing organization is obliged to return him/her warranty on execution of contract immediately after requirement of supplier.

## **11.Possibility on Revision of Contractual Conditions**

11.1. None of the deviations or changes will be entitled to the conditions of contract without written and signed revision of both parties.

11.2. If the necessity of changing the contract terms arise due to unforeseen reasons, the initiator of making changes is obliged to notify in written the other party about it.

11.3. Party to this contract has to notify the second party in writing about changes of prices that is entitled to disagree on above mentioned changes.

11.4. Changing terms envisaged by the Contract is not permitted if these changes might cause deteriorating the terms and conditions of the contract for procuring entity, except of cases under the Article 398 of Civil Code of Georgia. Revising terms of the contract is carried out according to the approved rule of the Legislation of Georgia.

11.5. In case of conditions envisaged by the Article 398 of Civil Code of Georgia, it is not allowed to increase the total amount of the Contract on state procurement by more than 10%.

11.6. Any change of the contract terms shall be drawn up as an annex to the contract and shall be deemed as an integral part thereof.

## **12. Delay in Contract Fulfillment**

12.1. If in the process of execution of contract the parties face any hampering circumstances and due to those reasons contractual conditions' fulfillment is delayed, in this event this party must immediately notify the other one about hampering fact, its possible duration and causes in writing. After getting the mentioned information this party shall notify about decision concerning to the above-mentioned circumstances to the other party as soon as possible.

12.2. In case of delay in execution of terms of the Contract, the parties agree on extension of the term of Contract validity, this decision shall be made through an amendment to the Contract.



12.3. "Purchaser" may terminate the whole or any part of this Contract after notification of "supplier" on non-fulfillment of assumed liabilities in writing:

- a) If the supplier is unable to provide all products or a part of it, within the terms under the contract or a prolonged period of time by the purchaser.
- b) If the supplier is not able to fulfill any liabilities determined according to the contract.

12.4. Termination of certain conditions of contract does not relieve the supplier from the rest obligations on fulfillment.

12.5. The purchaser may take decision about the termination of the contract as well:

- a) If the purchaser learned that it can not ensure the fulfillment of the obligations assumed by the contract due to some reasons beyond its control;
- b) In case of bankruptcy of the supplier;
- c) If the purchaser finds out that the documents concerning to the qualification of the supplier are false;
- d) In other cases stipulated by the legislation of Georgia

In cases referred to sub- clause 11.3. of this Contract the purchaser is obliged to reimburse the cost for actually received product to the supplier.

### **13. Force-Majeure**

13.1. The Parties shall be released from liability for partial or complete non-performance of their respective obligations, if such non-performance is caused due to such circumstances alike: flood, fire, earthquake and other natural disasters, also wars and military actions, which directly prevent the execution of contract. Term on execution of contract will be prolonged for respective time, after completion of circumstances.

13.2. If the duration of such conditions - partial or complete non-performance of their respective obligations - lasts more than a month the parties shall have the right to terminate the contract, without the right of claiming compensation.

13.3. The party, encountering force-majeure situations shall immediately notify in writing the other part about such circumstances.

### **14. Disputes and Rule on Their Resolution**

14.1. All disputes and controversies arisen between the parties may be settled through mutual negotiation of parties.

14.2. If agreement is not reached the parties apply to court in accordance with the legislation of Georgia.

### **15. Conditions on Inspection of Contract**

15.1. "Purchaser" is entitled to conduct inspection in parallel to procurement object's delivery, aiming at identifying compliance of procurement object with the terms and requirements of "purchaser" determined under the contract.

15.2. Control over the contract from the part of purchaser shall be executed by: -----  
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15.3. "Purchaser" will immediately inform "supplier" about defect or damage revealed as a result of inspection in writing by indicating the reasons of defect.

15.4. To cover the expenses connected with elimination or re-inspection of revealed defect or damage shall be imposed to" the supplier" in accordance with the rule approved by the legislation of Georgia.

### **16. Other Conditions**

16.1. Neither party shall be entitled to transfer his/her rights and obligations to third parties, without the written consent of the other party.

16.2. Relating with third parties, the parties are acting on their own behalf, expense and risk.

16.3. This contract was drawn up in the Georgian language in two copies, one for each Party and both have equal legal force and are kept with signatory parties. Any correspondence related to contract is to be

composed in the Georgian language.

16.4. Any changes or amendments to this Contract shall enter into force only after it is drawn up and signed by the parties in writing.

16.5. All the annexes and supplement to the Contract, signed by the authorized representatives of the parties shall be considered an integral part of the contract and is obligatory for fulfillment.

16.6. The parties are completely responsible for the accuracy of the information/details specified in the Contract. Notification on any changes in essential details shall be made in writing to the second party.

16.7. Any official relations between the Contracting Parties shall be conducted in writing. Any written notice sent by one party to another according to the contract shall be sent by post. For establishing effective communication modern means of communication might be used provided that the original message will be presented to the other party directly or sent to address specified in the contract by ordinary mail. If the parties can not provide communication through the address specified in the contract, due to the wrong address, the message will be deemed to be submitted and counting of terms mentioned in the contract shall be provided on respective postal address from the next day of submission.

### 17. Parties' Legal Addresses and Bank Details

<b>The Purchaser</b>	<b>The Supplier</b>
Tbilisi State Medical University Address: # 33 Vazha-Pshavela ave, Tbilisi Identification code 211328703 National Treasury, Code: TRESGE22 Acc. # GE24NB0330100200165022 Chancellor of Tbilisi State Medical University  -----	----- Identification code -----JSC Acc. # -----  ----- Director -----

### **Additional Information:**

Bidder may obtain clarifications regarding the tender documents on the basis of the application submitted to the Tender Commission. 33, Vazha-Pshavela ave.,

The Tender Committee the names and contact information. staff of Tender Commission, Tel: Tinatin Chanturidze 254 24 56; Alexandre Buachidze 2 54 24 53;

**The competent authorities of the above mentioned tender:**

**Andro Atoshvili 599 90 19 75;**

**Zurab Bendeliani 593 76 07 65;**

**Vakhtangi Beroshvili 577 02 47 47;**

1. Requisites:

Bidder's legal form and name:

Full name and surname of Supervisor:

Bidder's legal and/or actual address:

Identification code:

Bidder's phone number: Email  
address: ServiceBank:

Bank code:

Accountnumber:

2. Tender proposal's price according to the unified electronic system of state procurements:

3. Bid validity:

Pretender may submit the offer at the stage envisaged according to the subparagraph "l" of the paragraph 1 of Article 2 of this rule. The Bid offered by bidder shall be valid until the phase envisaged by the subparagraphs "g", "r" or "t" of the paragraph 1 of Article 2 of this rule.

4. Participant agrees with the conditions provided in tender documentation (among them delivery and payment conditions).

**Price list**

№	Names	Producer country	producer company/exact model	Exact characteristics	dimansion	Qty	Unit price	Total price
1	surgical microscope with contavers system, Anesthetic machine			see appendix 3	unit	1		
2	Neuro-navigation system which is compatible to surgical microscope			see appendix 3	unit	1		
							<b>Total:</b>	

Bidder's signatur

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## Basic characters

№	Name	specification
1.	Name of the device	<b>surgical microscope</b>
2.	Basic Requirements	Modular type surgical microscope. Relevant design, 3D vide system, with ALA and ICG function support, compatible with neuro-navigation system, contravers system and variable focus
3.	Quantity	At least 1 set
4.	Technical characteristics of microscope	
5.	apocromatic optics with correction of residual aberration	Must be
6.	minimum working distance, no more	224 mm
7.	maximum working distance, at least	510 mm
8.	Motorized focus	Must be
9.	Stereo base, at least	25 mm
10.	smooth motorized enlargement 1:6	Must be
11.	function to change binocular tilt angle	Must be
12.	The maximum tilt angle of bonocular, degree, at least	200
13.	ocular 10x	Must be
14.	dioptric ocular range for ocular, dptr	from +5 D to -8 D
15.	Tube tilt angle of the microscope (behind/before) in range, degree	from -50 to +120
16.	Tube tilt angle of the microscope (left/right) in range, degree	from -50 to +45
17.	synchronization with enlargement of light spot	Must be

	diametr	
18.	XY traffic block	Must be
19.	Double sheet diaphragm	Must be
20.	Ergonomic handles	Must be
21.	buttons on handle	Must be
22.	control of focus	Must be
23.	control of zoom	Must be
24.	control of light	Must be
25.	control of brake	Must be
26.	Hidden cables wiring	Must be
27.	stereo bridge which connect assistent microscopes	Must be
28.	Assistant Microscope (face / form)	Must be
29.	Assistant Side Microscope	Must be
30.	Maximum tilt angle of binocular (face / form), at least	200 degrees celsius
31.	assistent oculars (face to face) 10x	Must be
32.	engines which are built-in optical blocks, and perform all movements by microscope	Must be
33.	permanent, balanced condition of optical block	Must be
34.	Technical characteristics of floor tripod	
35.	Tripod type	for floor
36.	Electromagnetic brakes	Must be
37.	light source must be xenon	Must be
38.	quantity of light source, at least	2
39.	power of light source, at least	300 vt
40.	function to make fast light source swithing	Must be

41.	maximum rend of load bearing beams, at least	1700 mm
42.	The turning angle of the console, degree, at least	360
43.	capability of ICG (Fluorescence angiography) works	Must be
44.	capability of ALA (neuro oncology) works	Must be
45.	Video system technical characteristics	
46.	Adapter for video camera breaker	Must be
47.	physical size of the camera, inch, at least	1/3
48.	quantity of video-camera matrix, at least	1
49.	High-definition video register	Must be
50.	Video resolution, at least	1920x1080
51.	capability to register video in special medical computers	Must be
52.	screen must be lcd and sensor	Must be
53.	LCD screen diameter, inch, at least	19
54.	capability to register data on the hard disc	Must be
55.	The total number of memory, TB, at least	1
56.	video format Mpeg-4 or Mpeg-2	Must be
57.	quantity of video-camera, at least	2
58.	capability of register high resolution 3D video	Must be
59.	device for registration high resolution 3D video	Must be
60.	capability to record high resolution 3D video in Blu-ray disc.	Must be
61.	medical 3D monitor	Must be
62.	Medical 3D monitor diagonal, inch, at least	24 inch
63.	Delivery and service conditions	



64.	commissioning and construction works	Must be
65.	The workforce training	Must be
66.	Warranty period (from the date when the signed document about apparatus commissioning)	12 month
67.	Manual for guide	Must be

navigation system

position	Description requirements	quantity
1.0	Surgical Neuro-navigation station (Brain and spinal canal, compatible with the Surgical microscope) – with mobile tripod, high speed computer, UPS and two independent sensor monitor.	1
2.0	Navigation Station- Camera Mobile strut with telescopic tripod and infrared camera (camera rotation with remote control)	1
3.0	Cranial, navigation software	1
4.0	Software module for automatic merging of the following modules images: CT, MRI, PET, SPECT	1
5.0	instruments for cranial navigation	1 set
5.1	Standard, cordless indicator	1
5.2	dynamic referential device which is easily detachable	2
5.3	container for sterilization	1
6.0	The software module for laser recording device	1
7.0	registrator laser device	1
8.0	The registration indicator with contact transducer to skin	1
9.0	Specialized software for spinal navigation, based on CT	1
10.0	instruments for spinal navigation	1 set
10.1	referential matrix for dynamic tracking, X-ray transparent pins	1
10.2	Instrumental adapter kit for tools integration	1
10.3	cordless indicator	1
10.4	matrix which is for calibrating instruments	1
10.5	container for sterilization	1
10.6	Pre-calibrated instruments set for to make hole (awl and expansion of the waist and chest)	1
11.0	Spherical reflective markers (at least 270 pieces of the package)	2 pack
12.0	markers for register for CT/MRI	100 unit
13.0	software module for preoperative planning to be used on navigation system and sensor panel	1
14.0	Camera handle sterile cover	200 unit

## 2, Technical Requirements about navigation system

position	Description of requirements	Requested function or unit
1.0	navigation station – mobile complex with high speed computer, with UPS and with two independent sensor monitor.	Must be
1.1	Built-in high-speed computers: Processor min . Intel Xeon 2.8 Ghts.operatiuli min 6 GB memory, 320 GB hard drive min 320 GB of RAM system is Windows, the network the opportunity to work	Must be
1.2	system must have UPS	Must be
1.3	Capability to integrate intraoperative ST	Must be
1.4	Capability to automaticaly register image which is obtained from CT	Must be
1.5	system must be completed with two independent sensor monitor (each diagonal must be at least 26 inch, resolution at least 1920x1080 )	Must be
1.6	Monitors should be integrated into the navigation system and easily adapted in operating field	Must be
1.7	capability to introduce evry information, among the unrelated, on evry monitor. (Screen navigation software, data about planning, video images from an external source)	Must be
2.0	navigation station - Camera mobile complex with telescopic tripod and infrared camera (camera rotation with remote control)	Must be
2.1	Motorized Camera Management - Camera can be managed remotely from the navigation system monitor	Must be
2.2.	the complex camera tripod must be telescopic	Must be
3.0	Cranial navigation software	Must be
3.1	navigation system operation main stages must be displayed with graphik symbols	Must be
3.2	The three-dimensional display of objects and instruments	Must be
3.3	Navigation system display settings should allow you to easily change the performance of the user's configuration (Surgeon should have a number of images and the ability to change the configuration). display such specific settings should be stored and restored automatically after system shutdown.	Must be
3.4	eny instruments visualization on evry reconstruction and display	Must be
3.5	Three-dimensional navigation in real time scale and manipulation with any	Must be

	diagnostic data	
3.6	to creat new image team, only consideration important information	Must be
3.7	must be considered instruments virtual extension / possibility of speeding up	Must be
3.8	to calibrate new instruments must be needed no more than 5 second	Must be
3.9	not be restrict to use surgical instruments; All standard inelastic tools must be integrated quickly and easily	Must be
3.10	calibration of instruments shoul be not only the lenght but also according to the vector and diameter.	Must be
3.11	instruments autmatically calibrate without pedals	Must be
3.12	up to five instrument must be make visualization simultaneously	Must be
3.13	Patient registration markers must be determined without pedals.	Must be
3.14	patoent registration must be updated when computer switched off without considering	Must be
3.15	The registration process must be performed by registering the markers point (in any order)	Must be
3.16	The software must be able to calculate detect the markers specific combinations for to minimize registration errors.	Must be
3.17	Intraoperatively with anatomical landmarks to make repeat of registration	Must be
4.0	Software Module, to automatrally merging following models images: CT, MRI, PET, SPECT	Must be
5.0	instrumentaria for cranial navigation.	Must be
5.1	cordless indicator (without battery)	Must be
5.2	During the operation quickly detachable and replaceable dynamic reference device, Which is not covered by the surgeon sight.	Must be
5.3	container for starlization	Must be
5.4	Navigational instruments electrical connection / lack of equipment and cables.	Must be
5.5	Must be considered intraoperatively, in case of loss precision capability to repeat calibration of instruments	Must be
5.6	All instrument must be sterilized in the autoclave or gas sterilizer.	Must be
6.0	The software module for laser device for the registration and for contactless without marker registration.	Must be

6.1	contactless registration without markers, which eliminates the need for markers or additional scan, also eliminates the skin movement, which affect the accuracy of the registration.	Must be
6.2	contactless registration without markers, which eliminates the need for markers or additional scan, also eliminates the skin movement caused by transduce the contact to skin	Must be
7.0	Registering laser device for without marker registration	Must be
7.1	registration laser device for without marker registration which must be cordless and neednot calibration	Must be
8.0	The registration indicator with contact transducer to skin	Must be
8.1	The registration rate with contact transducer to skin, Which will be activated only in the first moment when contaqt to skin	Must be
9.0	special software based- on CT for navigation	Must be
9.1	capability to imaging three dimansion camera field of vision in camera	Must be
9.2	Preoperative vertebral segmentation	Must be
9.3	to register verteble body with coupl dots intuitive algorithm	Must be
9.4	to register verteble body with surfaces compare intuitive algorithm, given the initial registration area of the three units, without puting spine model in three dimensional reconstruction.	Must be
9.5	patient dynamic tracking for independent positioning	Must be
9.6	interactive simulation and planning of multiple bolts according to patients anatomical features	Must be
9.7	Linear scale is needed to select the optimum bolt.	Must be
9.8	X-ray images digitally reconstructed in a different dimension.	Must be
9.9	intuitive registration of additional instrumentaria $\cos$ by the diametr, lenght and vector	Must be
9.10	to make cordles tracking simultaneous up to four instrument in real time	Must be
9.11	to make virtual extension for instruments tip	Must be
9.12	autopilot funtion to make bolts and drilling	Must be
9.13	the funtion to automaticaly choose the bolt when instrument coming closer	Must be
9.14	Scale reconstruction of the study, rotation, brightness and contrast regulation opportunity.	Must be

9.15	If necessary, the system will automatically have to offer to improve the accuracy of registration with collecting the extra points	Must be
9.16	automatic combination of spinal research for CT-CT and CT-MRI moduls	Must be
9.17	Positioning the instrument as CT spinal data, as well as spinal MRI data that has been combined with the data of CT spinal which was already registered.	Must be
10.0	instrumentaria for spinal navigation	Must be
10.1	set: Referential matrix for dynamic tracking and its mounting, Including X-ray transparent fixator for referential matrix	Must be
10.2	instumental adapter kit for integration of existing instruments	Must be
10.3	cordless indicator (without battery)	Must be
10.4	matrix for calibration of instruments	Must be
10.5	container for sterilization	Must be
10.6	Pre-calibrated instruments set for to make hole (awl and expansion of the waist and chest))	Must be
11.0	reflective spherical markers (at least 270 unit in pack)	Must be
11.1	reflective spherical markers must be steril (at least 270 unit in pack)	Must be
12.0	markers for register for CT/MRI	Must be
13.0	software module for preoperative planning to circled on navigation system and sensor panel	Must be
13.1	software module for preoperative planning to circled on navigation system and sensor panel, structures and tumor volume measurement, full-volume production of two marked orthogonal perspective	Must be
14.0	sterile covers for camera handles	Must be

15.0	General requirements	
15.1	installation, training of medical staff	Must be
15.2	Warranty service, at least	12 month
15.3	Intraoperative navigation system operated by the neurosurgeon to carry out a sterile environment without the help of additional staff	Must be
15.4	navigation system must have mobile design for free movement in surgical room.	Must be

15.5	operation principles of navigation station should be based on passive, three-dimensional navigation tracking system, (Which features with passive markers which have at least $\pm 0,3$ mm an reapiting 1mm radius) which gives possibility to make localization of standard surgical instruments.	Must be
15.6	Navigation software must be controled without keyboard, mouse and foot pedals	Must be
15.7	The system should be equipped with the appropriate driver or network devices to transmit diagnostic data	Must be
16.0	Surgical Documentation	Must be
16.1.	opportunity to storage surgical intervention in various stages	Must be
16.2.	Intraoperative information should be stored in a common standard train	Must be

**Warranty provision on execution of contract  
(Bank Guarantee)**

To:

-----  
(Name of buyer)

Considering ----- that

(Name of supplier)

hereinafter referred to as "Supplier" ----- has undertaken obligation according to  
(Name of tender)

his/her tender proposal submitted to the tender to provide bank guarantee as a guarantee on execution  
his/her imposed obligations on the amount mentioned in the contract, we express our consent on provision  
of above mentioned guarantee in the name of supplier.

With regard to aforesaid we confirm that we are guarantors and responsible to you in the name of supplier  
on total amount.

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(Amount by figures)

(Amount by words)

And undertake payment of above mentioned amount under the basis of violation of contractual conditions  
by supplier immediately after your first requirement.

This guarantee is valid till final completion of execution of contractual conditions by supplier.

Signature and seal of guarantors

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(Date)

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(Address)

**Reference: In the case of any inaccuracy between the Georgian and English documents Preference is given to Georgian documentation.**