

Legal Grounds

This public tender is conducted according to Public Procurement Law of January 29, 2004 (position 759 in Polish Journal of Acts No 113 of 2010).

INSTYTUT TECHNOLOGII ELEKTRONOWEJ
Al. Lotników 32/46, 02-668 Warsaw, Poland

TERMS OF REFERENCE

for:

up-grade of the VARIAN CF- 3000 implanter

CPV 31712100-1, 31211110-2

**Proceedings are conducted according to open procedure for assessed value below
EUR 193 000,00**

1. Name (company name) and address of the Awarding Entity.

This proceedings are conducted by Tender Committee of Instytut Technologii Elektronowej,
Al. Lotników 32/46, 02-668 Warsaw, Poland.
Web page: <http://www.ite.waw.pl>

2. Procedure for awarding the Contract.

These proceedings are conducted in mode of open procedure according to Article 39 of Public Procurement Law of January 29, 2004.

The tenders submitted will be opened and evaluated by the Tender Committee according to the evaluation criteria.

From all tenders which have not been rejected, the one will be selected which receives the highest number of points calculated according to the evaluation criteria.

3. Description of the object of the Contract.

The object of the order is **up-grade of the VARIAN CF – 3000 implanter - delivery, installation and start up of the of complete gas box** , hereinafter called "device".

Requirements and technical parameters of the object of the order are indicated in Appendix No. 1 of this Terms of Reference.

4. Partial and variant tenders are not allowed.**5. Time limit for the Contract performance.**

Deadline for completion of the tender – maximally to 11 weeks after signing the Contract.

6. Conditions for participation in the procedure and description of the method used for the evaluation of the fulfilment of those conditions:

Eligible to compete for the Contract shall be economic operators who fulfil conditions defined in Article 22 paragraph 1 of Public Procurement Law of January 29, 2004 (with later changes):

- 1) authorizations to perform specific activities or actions, if such authorizations are required by the law;
- 2) knowledge and experience;

- 3) appropriate technical potential and personnel capable of performing a contract;
- 4) economic and financial standing.

The Contractor may rely on knowledge and experience, technical potential, personnel capable of performing the Contract or financial abilities of other entities, regardless of the legal nature of its relations with such entities. In such case, the Contractor is required to prove to the Awarding Entity that it will have at its disposal the resources necessary to performing the Contract, in particular by presenting to this end a written commitment of those entities whereby they undertake to put the necessary resources at the Contractor's disposal for the time of their use in performance of the Contract.

Evaluation of the above requirements will be performed according to the rule: "fulfil - not fulfil", on the basis of documents mentioned in point 7 of this Terms of Reference.

7. Information concerning declarations and documents to be provided by the Contractor to confirm the fulfilment of the conditions for participation in the procedure:

- 7.1. Signed statement confirming fulfilment of the conditions defined in Article 22 paragraph 1 "Public Procurement Law" – in form of "STATEMENT" [Appendix No. 2].
- 7.2. The list of the completed deliveries – prove, that within the period of the last three years before deadline of tender submission or if being active in the business for shorter period – in this period, have completed at least 3 deliveries of the complete UpTime/SDS gas box, with the indication of the buyers.

The lack of any of the above documents will cause the tender being rejected from further proceedings.

8. Information on the manner of communication between the Awarding Entity and the Contractor as well as of delivery of declarations and documents, indication of persons authorised to communicate with the Contractor.

All the statements, notifications and information the Awarding Entity and the Contractor provide in writing form or by fax.

The contact person in matters concerning the tender are:
Krzysztof Chrost, e-mail: chrost@ite.waw.pl

Please address all written correspondence, related to this tended proceedings, to:

Instytut Technologii Elektronowej
Al. Lotników 32/46
02-668 Warsaw, Poland.
building No VI, room 216

Fax: + 48 22 548 78 46.

9. Deposit requirements: we do not require.

10. Tender validation time – 30 days from the date of submission of the tenders.

11. Description of the manner of the tender preparation.

The tender should be presented in writing form.

The tender should include:

- a) Name and address of the Contractor,
- b) Date of preparation of the tender,
- c) Filled in Appendix No. 1 to this Terms of Reference,

- d) Net price in PLN (The price presented in EUR, GBP or USD is allowed. In the case of submission of the tenders in EUR, GBP or USD, the price will be exchanged to Polish zlotys PLN according to selling exchange rate of the National Bank of Poland dated on the day before of opening of the tenders).
- e) Indication of the component tasks of the order that will be assigned to subcontractors [Appendix No. 3].

The tender has to be signed by the Contractor or his Authorised Representative.

Together with the offer the Contractor is allowed to submit required documents defined at point 7 of this Terms of Reference, to confirm the fulfilment of the conditions for participation in the procedure.

In the case the Contractor company is located outside Poland, it is approved to submit the tender as well as the documents required from the Contractor as specified under point 7 of this Terms of Reference either in Polish or in English language.

The Contractor is allowed to submit only one offer.

All costs of preparation of the tender, regardless of the results of the tender, shall be covered by the Contractor.

12. Date and place of submission and opening of tenders.

The tenders should be submitted at the site of the Awarding Entity in Warsaw at Al. Lotników 32/46, building No. VI, room 216, by 10⁰⁰ am., on 28th July 2010 (in working days from 9 am till 2 pm). The tenders submitted after this deadline will not be considered.

Opening of the tenders will take place on 28th July 2010 at 10¹⁵ am. at the site of the Awarding Entity: Warsaw, Al. Lotników 32/46 in the building No. VI, room 120.

The Awarding Entity will open the tenders in accordance with its internal procedures but on occasion may hold a public opening which your representatives may attend.

The offers must be submitted in non-transparent and closed envelopes or packages. The envelope or package must be addressed as follows:

**Instytut Technologii Elektronowej
Al. Lotników 32/46
02-668 Warsaw
Building No VI, room 216
Do not open before 10¹⁵ am, on 28th July 2010.**

**OFFER FOR:
up-grade of the VARIAN CF- 3000 implanter.**

The envelope or package must include full name and address of the Contractor.

The Awarding Entity does not accept responsibility for consequence of contractors failure to keep the above requirements.

13. Description of the method of the price calculation.

The net price in PLN (EUR, GBP or USD) must include:

- a) the device according to the requirements indicated in Appendix No. 1 of this Terms of Reference,
- b) installation,
- c) start up,
- d) testing of the device,
- e) transport and unloading,

- f) delivery conditions: DDP Piaseczno
- g) insurance,
- h) training of persons according to Appendix No. 1 points 17 of this Terms of Reference.

14. Description of the criteria which the Awarding Entity will apply in selecting a tender, specifying also the importance of particular criteria and method of evaluation of tenders.

The Awarding Entity will evaluate whether the tender meets requirements introduced in this Terms of Reference. If the tender is valid (meets requirements introduced in this Terms of Reference), it will be taken into consideration in choice of the best one.

Offer evaluation criteria:

- Price Weight: - 100%

Number of points in the price criteria will be calculated according to the following formula:

$$P_n = C_{\min} / C_n * 100 * W$$

- where: P_n – points in price criteria
 C_{\min} – the lowest price from all the offers
 C_n – the price from the offer of n-th bidder
 W – weight of the “Price” criteria”

Maximum number of points to be gained within the price criteria is 100.

15. Information concerning formalities which should be met following the selection of a tender in order to conclude a public procurement contract.

The Contract with the winning Contractor will be signed pursuant to Article 94 of the Public Procurement Law.

The Contract is concluded under procedure according to Title IV of Public Procurement Law of January 29, 2004.

16. Other important statements which will be included in the Contract.

The following statements will be included in the Contract:

16.1. Indemnity

- 1) In case of delay, caused by negligence, or poor performance of the Seller, the Seller will pay to the Buyer an indemnity of 0,1% of the value of the equipment delayed for each working day of delay up to 10% of it's value.
- 2) In case of delay in payment, the Buyer will pay to the Seller indemnity of 0,1% of the value of delayed payment for each day of delay up to 10% of it's value.
- 3) In case the Seller will cancel the Contract without reason caused by the Buyer, the Seller will pay to the Buyer penalty of the 10% of the total Contract value and the Seller will transfer back all the received payments for the subject of this contract to the Buyer account.
- 4) In case the Buyer will cancel the Contract without reason caused by the Seller, the Buyer will pay to the Seller penalty of the 10% of the total Contract value plus documentary evidence costs of materials and labour based on the following schedule:
 - a) in period shorter than 30 days from order placement - 20% of the Contract value
 - b) in period shorter than 30 days before delivery and acceptance – 100% of the Contract value
 - c) in period between mentioned in points a and b – percentage approximated by linear function.

- 5) In case of delay, caused by the Seller, in delivery longer than 3 months, the Buyer can cancel the Contract and the Seller will pay to the Buyer penalty of the 10% of the total Contract value and the Seller will transfer back all the received payments for the subject of this contract to the Buyer account.

16.2. Warranty

- 1) The Seller undertakes a warranty of correct operation and technical quality of the delivered equipment for "warranty period included in the offer" months, calculated from the date of the final acceptance protocol, but no longer than "warranty period included in the offer + 3 months from the date of delivery".
- 2) The Seller within warranty period covers costs of the repair or replacement of the defective goods and costs of their transport to the Buyer site after repair.
- 3) During the warranty period, in case of the necessity of the repair outside the Buyer site, the Seller has the obligation to make the repair or replacement within not longer than 12 weeks after the date of the written claim.
- 4) The warranty period will be increased by the time needed for the repair.
- 5) The replaced or repaired parts of equipment will be included a warranty of the Seller or the Producer.
- 6) During the warranty period, the Seller undertakes a maximal service response time within 7 working days after the date of the written claim.

16.3. Delivery instruction

- 1) Subject of the Contract is to be shipped to the address below and placed at the disposal of the Buyer.
Shipping address: Instytut Technologii Elektronowej
 UI Puławska 34
 05-500 Piaseczno, Poland
- 2) The Seller advises to the Buyer about the dispatch by fax (No.+48 22 54-87-803).
- 3) The Seller will deliver CE certificate together with subject of the Contract.

16.4. Terms of payments

Payment will be effected in the following way:

1. 40% of the contract value – (the value from the offer) – payable at delivery by the bank transfer to the Seller's account on the basis of an original invoice and shipment documents within 7 days after shipment of the subject of the Contract,
2. 60% of the contract value – (the value from the offer) – payable by the bank transfer to the Seller's account on the basis of an original invoice within 14 days after signing the final protocol by both parties of the Contract.

The Buyer shall pay to the Seller due amount for the subject of this Contract by transfer to the Seller's account in:

.....
.....

All bank charges in Poland are at the Buyer's account and bank charges outside Poland are at the Seller's account.

16.5. Force Majeure

1. The parties shall be free of responsibilities for non-fulfilment of their obligations due to Force Majeure or these obligations will be change according to the point 4. Force Majeure shall be considered as an event, unforeseeable by either of the parties at the date of signature of this Contract, arisen after such date and being unavoidable and beyond the control of both parties.

2. Cases of Force Majeure are e.g. accidents, flood, earthquake, fire, explosion, war, mobilisation, strikes, blockades, general shortage of transport, materials or labour.
3. The party wishing to claim Force Majeure shall notify the other party in writing without delay on the intervention and on the cessation therefore.
4. Such party must certify the case of Force Majeure to the other party by documentation issued by the competent official authority of this country. The dates and periods for fulfilment of these obligations will be postponed or extended by the period of existence of the state of Force Majeure.

16.6. Setting of disputes

All disputes arising from the present Contract, failing amicable settlement shall be resolved by the Arbitration Court of the Polish Chamber of Commerce in Warsaw in accordance with the rules of this Court.

17. Requirements concerning the security on due performance of the Contract: we do not require.

18. Procedure for additional explanations.

Contractor is authorized to address the Awarding Entity only in written form, fax or e-mail is also allowed with request for additional information regarding the content of Terms of Reference - in this proceeding till 21st of July 2010. The Awarding Entity will respond all the inquiries according to the article 38 of the Act – “Public Procurement Law”.

The questions and the answers will be published on web site of the Awarding Entity.

19. Information on legal protection measures available to an the Contractor during the contract award procedure.

Contractor's legal protection laws are included in Chapter VI of the Public Procurement Law of January 29, 2004 which is available on the Public Procurement Office (PPO) web site: www.uzp.gov.pl

20. Other matters.

For all matters not regulated in this Terms of Reference, the provisions of Public Procurement Law of January 29, 2004 will apply.

Michał Urbański

Vice-Director for Administrative and Technical Affairs

Up-grade of the VARIAN CF- 3000 implanter - Requirements and technical specification for delivery, installation and set-up of complete UpTime/SDS gas box for VARIAN CF- 3000 implanter

No	Parameter	Requirement	The column to the fulfilment by the Tenderer*
1	2	3	4
1.	Type		specify
2.	Manufacturer		specify
3.	Country of origin		specify
4.	Manufacture year	2010	confirm
5	Complete gas box	A/ brand new	confirm
		B/ It must be ready for plug & play installing and compatible with the Awarding Entitie's implanter Varian CF-3000 in its actual technical state.	confirm
6.	Cabinet frame of the gas box	A/ The Cabinet Frame with the door should have a size enabling its fitting in place of the CF- 3000 original part and it must be compatible with the other panels/parts in CF- 3000 red terminal.	confirm
		B/ It must have enough space to fit low pressure gas bottles of proper size and of chosen technology for new gas lines, new racks, a new electronics interface and a new power supplies.	confirm
		C/ The cabinet frame with the door have to be made with non-corrosive metal for example with an anodized Aluminum or with stainless steel.	confirm and specify
		D/ The cabinet frame must have a 150 mm diameter hole on its top for the gas exhaust system connection.	confirm
7.	Gas panel & lines	A/ They have to be capable to distribute independently 4 different species -As, P, B (toxic ions) and Ar (neutral ion).	confirm
		B/ They have to be configured to manage Low Pressure (LP) gas delivery to the implanter source for 3 main lines with following toxic gases: AsH ₃ (arsine), PH ₃ (phosphine), BF ₃ (boron thrifluoride) from the internal gas bottles, and high pressure (HP) neutral gas delivery from the external gas bottle (auxiliary line).	confirm
		C/ The LP gas lines for 3 toxic gases have to work with both technologies UpTime (developed by the Praxair) and SDS-2 (developed by Matheson Tri Gas) replaceable.	confirm and specify

		D/ All necessary features e.g. stainless steel tubing (316L), adequate analog MFCs, Swagelok VCR and Nupro valves, display pressure gauges and HP safety kit (to prevent against overpressure) have to be installed.	
8.	Gas box	It must work with: A/ UT-SSELB and UT-5 (UpTime) size bottles B/ WY and JY (SDS-2) size bottles.	confirm
9.	Gas box	It must be configured to use with: A/ type UT-SSELB (UpTime) bottle for PH ₃ B/ type UT-SSELB (UpTime) bottle for AsH ₃ C/ type UT-5 (UpTime) bottle for BF ₃ .	confirm
10.	Control system	The complete gas box has to be controlled and monitored by the PLC system with touch screen flat monitor interface. This system must be networked using Ethernet connections and an optical fibers communication.	confirm
11.	CF-3000 canes replacement	The new control system has to replace existing cane (rod) steering for: A/ all gas lines, B/ Arc power supplier, C/ Filament power supplier.	confirm and specify
12.	Software and its functions	The software dedicated to completely gas box must be capable to carry out a basic functions, in details A/ gas selection, B/ open/close and set-up MFC flow with read back, C/ open/close all valves D/ control Filament current (rise, set point, fall) with read back E/ control Arc voltage with read back F/ control Extraction voltage with read back	confirm and specify
13.	Control of gas set-up and flow	It has to ensure set-up of each flow value (in sccm units) chosen from the technological range of 0,5- 2,0 sccm with resolution: A/ ≤1% for each of 3 toxic gases, B/ ≤1% for neutral gas (Ar).	confirm and specify
14.	DC power supplies parameters	A/ Filament Power Supply (P/S) must have the parameters 250A-6V*, B/ Arc P/S must have the parameters 5A -150V** with high and low current ranges, with resolution for high range-10 mA, -for low range-1mA. Note: *P/S software limited to 200A and **P/S software limited to 100V.	confirm and specify
15.	Set-up and qualification	Set up of the complete new gas box and it qualification at the Awarding Entitie's site must be verified by the Acceptance Test.	confirm

16.	Acceptance tests	<p>A/ vacuum leak test for each of the low-pressure lines at the level $\leq 1 \times 10^{-9}$ mbar l/sec,</p> <p>B/ Helium high-pressure test for neutral gas line (Ar) at the level $\leq 1 \times 10^{-6}$ mbar l/sec (snifer probe),</p> <p>C/ wafer implant non-uniformity $1\sigma \leq 1,5\%$ [4 inch Si wafer, 5 pcs, n-type, with 600A screen oxide, implant recipe: ^{11}B, 100keV, 1×10^{14} at/cm², annealing cycle: temperature T=1000°C, time t=1h, atmosphere N₂+10%O₂]</p> <p>D/ wafer implant non-repeatability $1\sigma \leq 1,3\%$ evaluated for 5 wafers from the point C/.</p> <p>E/ 1 hour of ^{11}B beam current stability with tolerance $\leq 5\%$ for the recipe: 5×10^{11} cm⁻² @ 1-2 μA beam current, 10-25 mA arc current, 50 keV,</p> <p>F/ 1 hour of ^{11}B beam current stability with tolerance $\leq 3\%$ for the recipe: 5×10^{15} cm⁻² @ 100-150 μA beam current, 1.5-2 A arc current, 100 keV.</p> <p>G/ 1 hour of ^{31}P beam current stability with tolerance $\leq 3\%$ for the recipe: 5×10^{15} cm⁻² @ 100-150 μA beam current, 1.5-2 A arc current, 100 keV.</p> <p>H/ 1 hour of ^{75}As beam current stability with tolerance $\leq 3\%$ for the recipe: 5×10^{15} cm⁻² @ 100-150 μA beam current, 1.5-2 A arc current, 100 keV.</p>	confirm and specify
17.	Training	Training must be carried out during the installation and set-up of the tool at the Awarding Entitie's site for 4 people.	confirm
18.	Service and manual instructions	Service and manual instructions must be delivered in English language with the paper and electronic versions.	confirm
19.	Warranty period	At least 12 months warranty for the complete new gas box including all delivered parts and workmanship, starting after signing of the Acceptance tests protocol.	confirm and specify
20.	Realisation time of the ordered object	The ordered object must be installed by the Contractor at the Awarding Entitie's site within maximally 11 weeks from the time of the contract signing.	confirm and specify

*** Imprecise or inaccurate fulfilment of the table in the column 4 will result in rejection of the offer.**

.....
/address stamp of the Contractor/

.....
/date/

STATEMENT

Acting in accordance with the contract award procedure, we certify that we fulfil the requirements specified in Article 22 paragraph 1 of Public Procurement Law, which states that eligible to compete for a Contract are economic operators who fulfil the requirements concerning:

1. authorisation to perform specific activities or actions, if such authorisations are required by the law;
2. knowledge and experience;
3. appropriate technical potential and personnel capable of performing a contract;
4. economic and financial standing.

.....
/signature of the Contractor or his Authorised Representative/

List of the component tasks of the order that the Tenderer intends to assign to subcontractors

(in case no such tasks please fill in with dashes)

No.	The scope of contract, which the Tenderer intends to assign to subcontractors.
1.	
2.	
3.	
4.	
5.	

.....
/signature of the Contractor or his Authorised Representative/