

CLARIFICATION No.1 to Tender Dossier

Publication Reference: EuropeAid/123866/D/SUP/TR
Project Title: “Supply of Laboratory Equipment and Furnishing for the National Food Reference Laboratory – Turkey”

QUESTION 1:

Is there any need to purchase tender documents (or şartname) before tendering and make official registry before the deadline?

ANSWER 1:

No. The Tender documents can be seen and downloaded from the pages of http://europa.eu.int/comm/europeaid/tender/index_en.htm, <http://www.deltur.cec.eu.int> and www.cfcu.gov.tr

QUESTION 2:

It is obligatory for the tenderers to provide the certificates of origin approved by the Chamber of Trade and Commerce while preparing tender dossier or will it be enough to declare those certificates only as sworn statement? Could the certificates of Origin approved by the Chamber of Trade and commerce be provided at the signature the contract?

ANSWER 2:

Declaration of a sworn statement is sufficient for the evaluation. Approved certificates of Origin by the Chamber of Trade and commerce must be provided at the time of provisional acceptance.

QUESTION 3:

What will be given for provisional acceptance rules in case the installation sites requirements are not fulfilled by the regional laboratories?

ANSWER 3:

There is only one laboratory, whose construction is ongoing, therefore there will be no reconstruction in installation sites. The building will be ready at the time of delivery of these supplies.

QUESTION 4:

Who is responsible for underworks (electrical current, water supply, air conditioning, waste connections etc.) in the installation site?

ANSWER 4:

Underworks will be completed by the works contractor during the construction of the building.

QUESTION 5:

Regarding the implementation period please clarify more about the provisional acceptance period and be more specific.

ANSWER 5:

Please See, Special Conditions, Article 31 page 31. The provisional acceptance shall be delivered by the Beneficiary within 30 calendar days upon the submission of the request for provisional acceptance by the contractor after delivery, installation, putting into operation, inspection and testing of all goods and training activities completed at the places shown in the Technical Specifications. The Contractor may apply, by notice to the Project Manager, for a certificate of provisional acceptance when supplies are ready for provisional acceptance. Provisional Acceptance Certificate will be issued formally by the Contracting Authority. The payment balance will be delivered to the contractor after the provisional acceptance of the supplies is submitted to the Project Manager (CFCU).

QUESTION 6:

B. Draft Contract and Special Conditions , including Annexes

Article 13 Implementation programme (timetable)

2) The delivery, installation, putting into operation, inspection, testing together with training in the use and calibration of the supplies where required must be completed within **120 (Onehundredtwenty) days calendar days**. The project manager will issue an administrative order for commencing the implementation which shall be after the provisional acceptance of the related works contract. Expected timing is June 2008. The Contract must be signed by both parties, at the locations specified at Attachment A of the Technical Specifications. The contractor must submit its best delivery and execution schedule within two weeks of the contract signature.

Please confirm if 120 days will start after June 2008 or provisional acceptances will all be completed before June 2008?

ANSWER 6:

Implementation period is 120 days and will start after the administrative order issued to the Contractor. *"Expected timing is June 2008"*. This refers to the provisional acceptance of the ongoing works contract.

QUESTION 7:

The delivery, installation, putting into operation, inspection, testing together with training in the use and calibration of the supplies where required must be completed within 120 calendar days. Expected timing is June 2008. Please clarification what does it means "expected timing is June 2008"

ANSWER 7:

See answer 6 above.

QUESTION 8:

ANNEX II: Technical Specifications

1.1. For LOT 1

o Electronic signature and sign off feature to provide electronic signatures in conformance to FDA's 21

Part 11 RULES.

Please note that the performance standards for Microwave and Radio Frequency Emitting Products (Item 3.40 Microwave Digestion) are according to 21 CFR Part 1030. Is this acceptable?

(Note: Microwave system is not an analytical device that produces any kind of result, like an AA or a GC. The pressure and temperature data is not any relevant data that requires reporting to anybody. Normally that audit trail stuff is relevant for balances, AAs, ICPs or chromatographic instruments, where actual data is produced.)

ANSWER 8:

Electronic signatures in conformance to FDA's 21 Part 11 RULES is only for LOT 1, not for items in LOT 3.

QUESTION 9:

LOT 2 LABORATORY WORKBENCHES AND OFFICE FURNITURE

Although it is written that "According to the attached drawings AD-14, AD-15 and AD-19" at the top of the technical specifications of Lot 2, there is no such attachment in the tender dossier. We request you to provide these drawings with clarification,

ANSWER 9:

Please see Corrigendum No:1 which introduces the PDF document of the drawings as part of the technical specifications.

QUESTION 10:

In ANNEX II of tender document, where the technical specifications are stated. (Page 68) Can you explain more on technical specifications 2.3.13-14-15, which state that
"2.3.13 Ability to Access database of EU and National Food category listings"
"2.3.14 Ability to apply result specification based on EU and food category listings"
"2.3.15 Ability to Access database of EU and National Food category listings" (This is the same as 2.3.13)

Normally a food database can be created by a LIMS system and LIMS users that can include products of any type with multi level specification limits. (i.e. EU limits, National limits etc.). However ACCESS to a different database is another job and needs to be defined very well. For example ;

- a) What are the contents of EU and National Database ?
- b) Which content or info do you need to Access ?
- c) What type of Access do you need ?
- d) How the access is going to be done ?
- e) Where will these EU and National Food Category listing Database be located ?

f) Or do you mean that these EU and National Food database entries (products, specifications etc.) is done manually by LIMS users ?

ANSWER 10:

- a) Scientific guidelines, legal regulations, Codex system etc in use.
- b) Please see above.

c) During the basic steps of pre-preparation, preparation and lab examination phases according to scientific guidelines, legal regulations, Codex system etc in use: secure web-access must be the basic mechanism for access to cross-mapped, coded, multi-lingual multiple-databases, which are dynamically and continuously updated.

d) This responsibility remains with the capability and competence of the potential bidders and interested parties.

e) This should be included in the analysis and design documents and validated/verified through the Beneficiary.

f) No, database entries will not be done manually by LIMS users.

QUESTION 11:

Item 3.1 Accelerated Solvent extraction

As far as we know this item is only available with USA-origin

Question: We request the contracting Authority to make an exception for this item and allow it to be offered with USA-origin.

ANSWER 11:

This item is available in the market with an acceptable origin. Thus, no derogation from rule of origin is granted.

QUESTION 12:

Item Number	Specifications	Questions
3.8	Centrifuge including rotor	
	<p>Benchtop unit suitable for up to 12 x 2.2 ml tubes. Maximum speed not less than 12000 RPM. Interlock to prevent opening of lid while rotor in motion. Rapid acceleration and deceleration.</p>	<p>12X2.0 is suitable in most applications. Is benchtop unit up to 12x2.0 ml tubes suitable for you?</p>

ANSWER 12:

Please see corrigendum No.1.

QUESTION 13:

Item Number	Specifications	Questions
3.9	Centrifuge including rotors	

Item Number	Specifications	Questions
	<p>Bench top design, suitable for chemical laboratory use.</p> <p>Supplied with rotors and inserts for 10 ml and 50 ml Oak Ridge-type tubes.</p> <p>Speed/Force adjustable up to 6500rpm/5300xG.</p> <p>Rapid acceleration and deceleration.</p> <p>Interlock to prevent opening of lid while rotor in motion.</p> <p>Wide range of alternative rotors available.</p>	<p>We would like you to confirm that you want <u>Fixed Angle Rotor</u> for the Speed/Force adjustable up to 6500rpm/5300Xg.</p>

ANSWER 13:

Please see corrigendum No.1.

QUESTION 14:

Item Number	Specifications	Questions
3.10	Refrigerated Centrifuge including rotors	
1	<p>Bench top design, suitable for chemical laboratory use.</p> <p>Built-in refrigeration system. Interlock to prevent opening of lid while rotor in motion.</p> <p>Minimum rotor speed: 12000 rpm</p> <p>Rapid acceleration and deceleration.</p> <p>Temperature setting range between -20 and +40 °C</p> <p>Wide range of alternative rotors available.</p> <p>Automatic rotor detection controlling safety limit for rotor speed.</p> <p>Control system for setting of gravitational field, rotation speed, and time.</p>	<p>-9 and +40 °C is suitable in most applications.</p> <p>Is temperature setting range between -9 and +40 °C suitable for you?</p>
2	<p>Item 10 to be supplied with the following rotors:</p> <p>6 x 500 ml</p> <p>8 x 50 ml</p> <p>20 x 10 ml</p> <p>Wide range of alternative rotors available.</p> <p>Automatic rotor detection controlling safety limit for rotor speed. Control system for setting of gravitational field, rotation speed, and time.</p>	<p>We will offer 1 pc .Fixed Angle Rotor for 6x85 ml and 11.000 rpm, is it suitable for you?</p> <p>And we will offer 6x50ml adapters and 20x10ml adapters Are they suitable for you ?</p>

ANSWER 14:

3.10. Question1: In the laboratory usage, the temperature setting range will be between -20 and +40.

3.10. Question2. The question is for item 3.11. Please see corrigendum No.1.

QUESTION 15:

3.15. Automated GPC cleanup*

Capacity:

60 sample capacity.

Our instruments capacity is 52. Is it acceptable?

ANSWER 15:

Please see corrigendum No:1

QUESTION 16:

Item 3.15 Automated GPC cleanup

As far as we know this item is only available with USA-origin

Question: We request the contracting Authority to make an exception for this item and allow it to be offered with USA-origin.

ANSWER 16:

This item is available in the market with an acceptable origin. Thus, no derogation from rule of origin is granted.

QUESTION 17:

3.16. Inductively-coupled plasma – mass spectrometer (ICP-MS) system*

Sample introduction system:

Sample introduction system suitable for both continuous introduction and flow injection. Could you please give us more details about this explanation?

ANSWER 17:

It must be “Sample introduction system suitable for continuous introduction or flow injection” Please see Corrigendum No.1

QUESTION 18:

Regarding to the ‘‘connection’’ requirement of the Inductively-Coupled Plasma – Mass Spectrometer (ICP-MS) System (LOT 3, Item 3.16) to the on-line chromatographic systems, please note that our system can NOT be connected to a CE system in the future. It can be connected to an HPLC system. Is this acceptable?

ANSWER 18:

Please see corrigendum No.1

QUESTION 19:

LOT 3, Item 3.16 Inductively-coupled plasma – mass spectrometer (ICP-MS) system*

‘‘Equipped with collision/reaction cell and control for at least two cell gasses. The requirement to use expensive and corrosive gases such as methane and ammonia is unacceptable’’

Instead of the term ‘‘collision/ reaction cell ‘‘ we use the term ‘‘Collision Reaction Interface’’ for the same function.

Is this also acceptable?

ANSWER 19:

Please see corrigendum No.1.

QUESTION 20:

LOT 3, Item 3.16 Inductively-coupled plasma – mass spectrometer (ICP-MS) system*

‘‘The system must be suitable for use with on-line chromatographic systems including CE equipment and capable of handling organic solvents.’’

Our system has only connection to the HPLC System. Is this also acceptable?

ANSWER 20:

Please see corrigendum No.1

QUESTION 21:

3.17. LC-MS/MS*

Sensitivity:

Sensitivity for electrospray-amenable pesticides must be sufficient for determination at 10 ng/ml (10 pg/ul) when injecting in 100% acetonitrile (limiting injected volume to 3 ul for a 2 mm column).

Our instrument’s sensitivity is 0.5 pg LC/MS injection of reserpine. With three concurrent MRM acquisitions, S/N for the reserpine transition m/z 609 to 195. S/N >20:1 RMS. It is more sensitive instrument but the definition is determined by reserpine, not acetonitrile. Is it acceptable?

ANSWER21:

Please see corrigendum No:1

QUESTION 22:

We would like to receive the answers for the article 3.19 ‘‘Water Purifier for Laboratory Use’’, to avoid any mistakes and to make sure that the Institute will purchase the right equipment:

1. It has been stated on the specifications that the system has to be consisting of one RO+ electrodeionization system and one Ultra Pure Water system. But it has not been stated what the RO production capacity is? It is a well known fact that the Production Capacity of an Ultra Pure water system will be limited by the production capacity of a RO systems because these systems are designed in such a way that the Pure water has be stored in order to give the user adequate ultra pure water when needed! For example, when the production capacity of a RO system is 5 l/hr, the user has to wait 4 hours to get 20 L of Ultra Pure water or 2 hours just to get 10 L of Ultra Pure water, therefore **a tank** in between the RO system and the ultra pure system is commonly used. **Regarding the reasons above, what will be minimum production capacity of RO system, ?**

ANSWER22:

Minimum production capacity of RO should be min 5L/h. Please see Corrigendum No.1

QUESTION 23:

We would like to receive the answers for the article 3.19 “Water Purifier for Laboratory Use”, to avoid any mistakes and to make sure that the Institute will purchase the right equipment
It has been stated on the technical specs of the accessories that, there should be a 30 L capacity tank is required.

We assume the tank will be used for Pure Water (RO water)storage, the technical specs of the tank are very important. The reason we are asking this question is, there many different types of tanks for Pure Water storage in the Market but many of them do not comply the Standard of “ISO TS EN ISO 3696- Water for Analytical Laboratory Use- Specifications and The Test Methods”. For example, in section 6, the technical specification of tank which the pure water will be stored in, is clearly defined. In the definition, it is stated that the tank should be clean, made of inert materials, rinsed with the pure water before the Pure Water stored and most important is it has to be “Air-tight”. It is the most important specification because it should also be noted that purified water would absorb a significant amount of carbon dioxide from the atmosphere as soon as it is exposed. There is a possibility that the Carbon dioxide could cause isobaric interference of calcium and as a result of the isobaric reaction of the calcium, the Conductivity and the TOC level of the pure water will always increase. On the other hand, if the tank is “Air-tight” as it is stated in the ISO guidelines, there will be no chance that the pure water will get in touch with carbon dioxide. In addition to all, if the tank is not an air-tight tank, there should be an air filter only to prevent any contamination of bacteria (but can not avoid the conductivity and the toc level to rise) which will also lead your Institute to an additional consumable of filters to purchase!. **Can you give more detailed specification about the tank whether it will be “air-tight or not?”**

ANSWER23:

Pure Water (RO water)storage should have a protective system to prevent contamination of water stored in tank such as a filtered ventilation system or air-tight. Please see Corrigendum No.1

QUESTION 24:

We would like to receive the answers for the article 3.19 “Water Purifier for Laboratory Use”, to avoid any mistakes and to make sure that the Institute will purchase the right equipment
It has been stated in the technical specs that “the system should have a UV lamp to reduce the TOC level”. The TOC level of the Ultra Pure Water is very important in some Analytical Methods or with some instruments like HPLC. For example:

“The importance of the solvent purity increases inversely with the detector wavelength being used with the HPLC method. The lower the wavelength, the higher the water purity must be to avoid interference.

At wavelengths above 250 nm, a laboratory may even get by with bottled water or deionised water. However, when working with wavelengths below 250 nm, specially treated deionised water is required. Even at the higher wavelengths, it is possible to detect unwanted peaks due to concentration effects if too much organic carbon is present in the water. Bottled water for instance, will absorb contaminants from the atmosphere every time the bottle is opened. This water may already contain interfering organic material that leached from the bottle or cap. In any case, it is difficult to control this type of contamination due to exposition to air. Deionised water produced from a system that is not designed for chromatography work can also present problems. These systems may not contain an ultraviolet (UV) oxidation chamber to further reduce organic contaminants. Proper pre-treatment coupled with UV radiation provides the most consistent purified water with the lowest background organic carbon levels. Many HPLC procedures utilize UV detection for sample analysis. By providing UV radiation|oxidation at 185 nm wavelength in the water treatment system, most if not all potentially interfering organic compounds are eliminated.” As a summary, it is very important the system provides the users minimum TOC level. The minimum TOC level, can be reached by a Water system in these days, is even <1 ppb. The system which are providing Ultra Pure Water with a TOC level of 1-?, do not supply the user a constant value of TOC level although it is one of the most important aspect in HPLC and many different analytical analysis. **Can you give detailed specifications of the required TOC level for the Ultra Pure Water?**

ANSWER24:

TOC level should be less than 5 ppb as stated in the technical specifications.

QUESTION 25:

We would like to receive the answers for the article 3.19 “Water Purifier for Laboratory Use”, to avoid any mistakes and to make sure that the Institute will purchase the right equipment. It has been stated that the systems has to be delivered with all the consumables. What might be the consumables on this matter?

ANSWER25:

Pre-treatment cards, membrans and micro filter cartridges are consumables necessary to the tenderer to demonstrate that the equipment delivered pass the inspection and testing obligations. Please see Corrigendum No.1

QUESTION 26:

LOT 3, Item 3.21 Autosampler/injector for Gas Chromatography

‘Liquid injection mode :
For 0.1 to 500 microlitres

Liquid injection mode of our system is programmable as follows:

- 1.0 -10 uL with standard syringe of 10 uL**
- 0.2 – 1.4 uL with sadwhich technique**
- Up to 50 -500 uL with optional 500 uL syringe**
- For injection speed : 0,01 uL/sec to 500 uL/sec**

Is this also acceptable?

ANSWER 26:

Please see corrigendum No:1

QUESTION 27:

3.22. Gas chromatograph* Type 1

Detectors:

Must be fitted with both Electron capture detector (ECD) and Pulsed flame photometric detector. Our Flame photometric detector (FPD) can do the same analysis as Pulsed flame photometric detector (PFPD). Is the Flame photometric detector (FPD) acceptable for second detector?

Spare Column:

1 ea spare column

At least, you must define the dimensions of the columns. The price of different size columns are very different

ANSWER27:

Please see corrigendum No.1

QUESTION 28:

Please confirm if the following accessories (i.e. Item 3.21. ‘Autosampler/injector for gas chromatography ‘ and Item 3.25 ‘Headspace sampler for gas chromatographic analysis ‘) will be connected to the GC and GC/MS Systems below?

(Item 3.22- Gas Chromatograph * Type 1 , Item 3.23- Gas Chromatograph * Type Item 3.24 -Gas Chromatograph * Type 3, Item 3.26 - Gas Chromatograph-Mass Spectrometer)

ANSWER 28:

Yes we confirm that the following accessories (Item 3.21. ‘Autosampler/injector for gas chromatography ‘ and Item 3.25 ‘Headspace sampler for gas chromatographic analysis ‘ will be connected to the GC and GC/MS Systems.

QUESTION 29:

3.23. Gas chromatograph* Type 2

Detectors:

Must be fitted with Flame ionisation detector (FID) and Thermonic nitrogen/phosphorus detector. Thermonic is one of the manufacturer expression. Do you want nitrogen/phosphorus detector with this expression or is there another meaning?

Spare Column:

1 ea spare column

At least, you must define the dimensions of the columns. The price of different size columns are very different

ANSWER 29:

Please see corrigendum No.1

QUESTION 30:

3.24. Gas chromatograph* Type 3

Spare Column:

1 ea spare column

At least, you must define the dimensions of the columns. The price of different size columns are very different

ANSWER 30:

Please see corrigendum No.1

QUESTION 31:

Regarding to the temperature range of Headspace Sampler for Gas Chromatographic Analysis (LOT 3, Item 3.25) , please note that the temperature range of our headspace analyzer is between 30 °C and 200 °C. Is this acceptable?

ANSWER 31:

Please see corrigendum No.1

QUESTION 32:

Regarding to the Headspace Sampler for Gas Chromatographic Analysis (LOT 3, Item 3.25) , please note it has been stated as ‘‘deactivated sampling probe’’ in one line and ‘‘Deactivated flexible transfer line/probe or injector’’ in another line of the technical specifications. Our system design is injector type as stated in the second description.

Please confirm if this is acceptable?

ANSWER 32:

Please see corrigendum No.1

QUESTION 33:

LOT 3, Item 3.25 Headspace Sampler for Gas Chromatographic Analysis

‘‘Sample oven for temperatures between 40 °C and 230 °’’

**The temperature range of our system is between 30 °C and 200 °C.
Is this also acceptable?**

ANSWER 33:

Please see corrigendum No.1

QUESTION 34:

LOT 3, Item 3.25 Headspace Sampler for Gas Chromatographic Analysis

“Automated, deactivated sampling probe”

“Deactivated flexible transfer line/probe or injector for connection to GC injection port”

Our system does not need a deactivated sampling probe. It has an injector type design which has been already accepted in another sentence in the tender specification as stated above.

Is this acceptable?

ANSWER 34:

Please see corrigendum No.1

QUESTION 35:

3.26. Gas chromatograph-mass spectrometer*

Spare Column:

1 ea spare column

At least, you must define the dimensions of the columns. The price of different size columns are very different

ANSWER 35:

Please see corrigendum No.1

QUESTION 36:

Regarding to Gas Chromatograph-Mass Spectrometer (LOT 3, Item 3.26),

The required EI sensitivity of the system has been stated as 1pg octafluoronaphthalene on column to give S/N > 100 at m/z 272 when scanning.

Please note that our system has an EI sensitivity of S/N > 20 for 1 pg octafluoronaphthalene on column. It should be considered that manufacturers use different algorithms for the calculation of S/N ratios . On the other hand some manufacturers are conservative in stating the specifications issued in the brochures.

Please confirm the S/N Ratio of > 20 is acceptable ?

ANSWER 36:

Please see corrigendum No.1

QUESTION 37:

LOT 3, Item 3.26 Gas Chromatograph-mass spectrometer .

“EI sensitivity: 1pg octafluoronaphthalene on column to give S/N > 100 at m/z 272 when scanning.”

EI Sensitivity of our system is 1pg octafluoronaphthalene on column to give S/N > 20.”

Is this also acceptable?

(Notes:

1- The S/N ratio in the lower concentration ranges is not linear.

2- The algorithms commercial companies use to calculate noise can be different resulting in different S/N ratios.

3- The absolute performance of MS systems of different manufacturers is not directly proportional to the S/N ratio.

4- A specification as mentioned in a datasheet is not the ultimate performance of a system. It is a realistic performance which can be met at customer's location after installation. In order to avoid failures, our manufacturer company is more careful and conservative.)

ANSWER 37:

Please see corrigendum No.1

QUESTION 38:

3.27. HPLC system*

1.Delay volume:

Delay volume not exceeding 0.85 ml

In gradient formation, delay volume is dependent on back pressure. Sometimes it can increase or decrease and it is not suitable to put only one figure to express the delay volume. It is increase to app. 1.00 ml – 1.10 ml. Is it acceptable?

2. Spare Column:

1 ea spare column

At least, you must define the dimensions of the columns. The price of different size columns is very different

ANSWER 38:

Please see corrigendum No.1

QUESTION 39:

Lot 3, Item 3.27 HPLC system.

‘‘Delay volume not exceeding 0.85 ml ‘‘

The delay volume of our system is 0.7 uL + 1 uL/ ATM . Is this also acceptable?

ANSWER 39:

Please see corrigendum No.1

QUESTION 40:

Lot 3, Item 3.27 HPLC system.

‘‘Capacity for minimum of 80 vials ‘‘

Our system can hold 48 vials (2 ml capacity) and below well microtiter plates.

Capacity Options:

One 96-well microtiter plate, low well

One 96-well microtiter plate, deep well

One 384-well microtiter plate, low well

One 48-vial plate with 2 mL vials (12 mm ID x 32 mm L)

Is this also acceptable ?

ANSWER 40:

Please see corrigendum No:1

QUESTION 41:

‘Injection range 0.1 – 100 microlitres’

The injection range of our system is 1 - 5000 µL with 1 µL increments .

Is this also acceptable?

ANSWER 41:

Technical specifications define the minimum criteria for compliance. At the tendering stage this is the responsibility of the tenderer to secure that the equipment to offer matches these criteria.

QUESTION 42:

Item 3.28 Fourier transform infrared spectrophotometer

“Should be delivered complete with the required monomers and polymers libraries”.

Question: Please specify which libraries are exactly required.

ANSWER 42:

Please see corrigendum No.1.

QUESTION 43:

Lot 3, Item 3.29 UV-VIS spectrophotometer

‘Spectral resolution (<900 nm) 1nm’

UV-Vis Limiting Resolution (nm) of our system is less than 1.5 nm.

Is this also acceptable?

ANSWER 43:

Please see corrigendum No:1

QUESTION 44:

Lot 3, Item 3.29 UV-VIS spectrophotometer

‘Photometric linearity < 0.5% up to 2.0 Abs’

Photometric linearity is not published in our catalog. Instead of it, below values have been stated:

Photometric Accuracy (Abs) is 0.0007

Photometric Range (Abs) is 3.3

Photometric Reproducibility (Abs) is 0.04

Photometric Stability (Abs/hour) 30 minute warm up

500 nm, 1 second Signal Averaging Time <0.0004

Photometric noise 0.000063 at 0 Abs

Are these also acceptable?

ANSWER 44:

Technical specifications define the minimum criteria for compliance. At the tendering stage this is the responsibility of the tenderer to secure that the equipment to offer matches these criteria.

QUESTION 45:

Item Number	Specifications	Questions
3.33	<i>Furnace programmable ashing furnace</i>	
	<i>Temperature programmable ashing furnace Maximum temperature at least 975C Multiple segment programme controller Over-temperature protection Internal dimensions approx 325x250x170mm Complete with multipurpose crucible rack</i>	<i>Is internal dimensions 300x200x150mm suitable for you ?</i>

ANSWER 45:

Please see corrigendum No.1

QUESTION 46:

Item 3.34 Gas connection tubing

For this item a stock of copper tubing, T-pieces, nuts and ferrules is required, without indicating quantities.

Question: Please specify exact quantities of required copper tubing T-pieces, nuts and ferrules

ANSWER 46:

Please see corrigendum No.1.

QUESTION 47:

Item 3.39 LC post-column derivatisation

As far as we know this item is only available with USA-origin

Question: We request the contracting Authority to make an exception for this item and allow it to be offered with USA-origin.

ANSWER 47:

This item is available in the market with an acceptable origin. Thus, no derogation from rule of origin is granted.

QUESTION 48:

Item 3.49 Portable gas leak detector

As far as we know this item is only available with USA-origin

Question: We request the contracting Authority to make an exception for this item and allow it to be offered with USA-origin.

ANSWER 48:

This item is available in the market with an acceptable origin. Thus, no derogation from rule of origin is granted.

QUESTION 49:

Item Number	Specifications	Questions
3.53 Vacuum pumps	Single head system suitable for 0.1 bar ultimate pressure	Is it possible to add an option to the specification as double head system for 0.15 mbar
	Fitted with vacuum controller	Would you please clarify What's the aim of this specification and what exactly it is?

ANSWER 49:

The pump should have a vacuum pressure controller. Please see corrigendum No.1

QUESTION 50:

Item 3.60 Oven for sterilization of glassware and equipment

The capacity of this item is not specified.

Question: Kindly indicated the capacity (internal volume in liters or dimensions) of this oven.

ANSWER 50:

Please see corrigendum No.1.

QUESTION 51:

Item Number	Specifications	Questions
3.71	<p>Incubators</p> <p>Minimum 100 litres Capable of incubation temperatures in the range 5 °C above room temperature up to 95°C.</p> <p>Accurate to ± 1°C throughout the entire volume, fan assisted; Minimum 2 shelves each, preferably 3 shelves each,</p> <p>RS 232 interface Acoustic alarm Time range 99 hours 59 minutes Mechanic safety thermostat class 2</p>	<p>Is capable of incubation temperatures in the range 5 °C above room temperature up to 70 °C suitable for you.</p>

ANSWER 51:

Please refer to the technical specifications which define the minimum requirements. At the tendering stage this is the responsibility of the tenderer to secure that the equipment to offer matches these criteria. Please see Corrigendum No. 1 for the corrected item number.

QUESTION 52:

Item Number	Specifications	Questions
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Item Number	Specifications	Questions
3.72	Cooled incubator	
	Minimum 100 litre capacity. For 22°C or 25°C incubation. Capable of incubation temperatures in the range 0 - 60°C. Minimum 2 shelves, preferably 3 shelves; Accurate to ± 1°C throughout the entire volume, fan assisted; RS 232 interface Acoustic alarm Time range 99 hours 59 minutes Mechanic safety thermostat class 2	Is capable of incubation temperatures in the range 0 - 50°C suitable for you?

ANSWER 52:

Please see corrigendum No.1

QUESTION 53:

Item 3.74 Temperature logger monitoring system and associated software

As far as we know this item is only available with USA-origin

Question: We request the contracting Authority to make an exception for this item and allow it to be offered with USA-origin.

ANSWER 53:

This item is available in the market with an acceptable origin. Thus, no derogation from rule of origin is granted.

QUESTION 54:

3.82 Microwave oven

All microwave ovens are manufactured in China. Would you please give a derogation of this item?

ANSWER 54:

This item is available in the market with an acceptable origin. Thus, no derogation from rule of origin is granted.

QUESTION 55:

3.84 PCR Thermocycler

ITEM	SPECIFICATIONS	SHOULD BE CHANGED AS	BECAUSE

3.84	96 well microplate format	60 or 30 well microplate format	Device is requested 96 well that works with 0,2 ml tubes. If it is needed to work with 0,5 ml tubes, block should be changed to 60 or 30 well.
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ANSWER 55:

Technical specifications define the minimum criteria for compliance. At the tendering stage this is the responsibility of the tenderer to secure that the equipment to offer matches these criteria. Please see corrigendum No:1

QUESTION 56:

Item Number	Specifications	Questions
3.84	PCR Thermocycler	
	Conventional block based 25 & 50 µl, stable thermal profiles, heated lid, multiple blocks independently programmable Ramp rate for heating minimum 3°C Ramp rate for heating minimum 2°C 96 well microplate format For use with thermal cyclers with 0.5 ml block format	We would like to know if the minimum 2°C ramp rate is for cooling.

ANSWER 56:

Please see corrigendum No.1.

QUESTION 57:

3.84 PCR Thermocycler

Does this device has relation with 3.88 Gradient block with heated lid? If there is a relation, we would like to supply these two items with complementary specifications.

ANSWER 57:

Complementary requirement is not requested as minimum requirement.

QUESTION 58:

3.85	Real-time PCR	
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	<p>Peltier-based thermal cycling system 96-well block with 25-100µL supported volumes Temperature range 4-100°C with temperature uniformity of +/- 0.5 °C 30 secs after clock start Optical system – tungsten halogen lamp or equivalent minimum excitation source, minimum five excitation filters, five emission filters and CCD camera. Sensitivity – should be able to detect 10 or less starting copies of Rnas P gene from human genomic DNA. Multiplex dye detection System must be complete with PC with minimum dual core 64 Bit,2048 RAM, 400 GB Hard disc, DVD/ RW Combo complete, 19 inch LCD monitor, comprehensive software system for qualitative, quantification, melting curve analysis, allelic discrimination, Primer and probe design etc., last versions (Or equivalents) of Windows, Adobe Photoshop and Microsoft Office software . Original copy of Software should be provided with the system.</p> <p>Printer: Should be a Laser jet color printer Should have max resolution 10 ppm color and 10 ppm black Should have minimum 64 MB RAM Should have minimum 250 sheet input Should have minimum 600x600 dpi resolution</p> <p>Computer Workstation Network ready</p> <p>Training: 1.Post- installation training: a)-Where: at the site of installation -No. of participants: at the least 4 members of beneficiary’s laboratory staff -When: directly after installation -Number of days: at least 15 b) Where: at manufacturers premises -No. of participants: at the least 2 members of beneficiary’s laboratory staff -When: after installation -Number of days: at least 5 2.Scope of training should include at least: - basic training in instrument operation, including: operation tasks, software, applications, data analysis. 3. Reagents for GMO analysis and consumables should be provided with the system for training after installation</p>	<p>a) Temperature control range of block of Eppendorf Mastercycler ep realplex 4S is 4-99 C and thermomodule control accuracy is +/- 0.2 C. These values are the most suitable ones in most applications. Are these values applicable for you?</p> <p>b) In Eppendorf Mastercycler ep realplex 4S, excitation source is 96 LED which has longer life than any other excitation source . Also because of 96 LED, at 470 nm it excites all fluorophores so there is no need excitation filters.</p> <p>c) Eppendorf Mastercycler ep realplex 4S has 4 emission filters. Eppendorf Mastercycler ep realplex 4S can excite nearly all fluorophores like SYBR Green, FAM, VIC, TET, HEX, ROX, JOE, Cy 3, NED and TAMRA . Are these 4 emission filters enough for you?</p> <p>d) Eppendorf Mastercycler ep realplex 4S’s optical module is photo multiplier tubes(PMT). It causes highly sensitive detection. Is PMT is applicable for you?</p> <p>e) Primer supplier is responsible for this mission. If software is supplied from kit supplier, it is possible to load related program.</p>
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ANSWER 58:

- a) Please see corrigendum No.1.
- b) To use alternative dyes five emission filters is necessary.
- c) Please see the answer of for c.
- d) Technical specifications define the minimum criteria for compliance. At the tendering stage this is the responsibility of the tenderer to secure that the equipment to offer matches these criteria.
- e) Technical specifications define the minimum criteria for compliance. At the tendering stage this is the responsibility of the tenderer to secure that the equipment to offer matches these criteria.

QUESTION 59:

Item Number	Specifications	Questions
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<p>3.85 Real-time PCR</p>	<p>Temperature range 4-100°C with temperature uniformity of +/-0.5°C 30 secs after clock start</p>	<p>The specification refers to ABI Company (USA)'s Real Time PCR device. For EU originated products, temperature range should start from the ambient 37°C and go up to 90°C</p>
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ANSWER 59:

Technical specifications is binding There are EU originated products that have the temperature range between 4 - 99°C. Please see Corrigendum Notice No.1

QUESTION 60:

3.88 Gradient block with heated lid

ITEM	SPECIFICATIONS	SHOULD BE CHANGED AS	BECAUSE
3.88	Minimum heating rate of 6°C/sec and minimum cooling rate of 4.5°C/sec	Minimum heating rate of 3.3 °C/sec and minimum cooling rate of 2 °C/sec	The present specifications describes a specific brand name

ANSWER 60:

Please see corrigendum No.1.
