



INVITATION TO SUBMIT A BID

for the small size public procurement for supplies

„ Integrating current transformer for LUX”

(**“Public Procurement”**) that is to be concluded in the procedure according to the Rules for applicants and beneficiaries (**“Rules”**) under the Research, Development and Education Operational Programme.

Name of the contracting authority:	Institute of Physics of Academy of Sciences of the Czech Republic, public research institution
Registered office:	Na Slovance 2, Praha 8, PSČ: 182 21
Identification No.:	68378271
Tax Identification No.:	CZ68378271
Person authorized to act on behalf of the contracting authority:	RNDr. Michael Prouza, Ph.D., director
Contact person:	David Pokorny
Telephone:	00 420 601 555 056
E-mail:	david.pokorny@eli-beams.eu

(**“Contracting Authority”**)

1. GENERAL INFORMATION

The subject matter of the Public Contract shall be funded from Research, Development and Education Operational Programme, project No. CZ.02.1.01/0.0/0.0/15_008/0000162, project title “ELI: EXTREME LIGHT INFRASTRUCTURE – Phase 2”.

- 1.1 The Contracting Authority does not follow the rules for public procurements set out in the act no. 134/2016 Coll., on public contracts awarding (**“Act”**), because the Public procurement is considered a small size public procurement within the meaning of Section 27 of the Act.
- 1.2 However, the award procedure is subject to Rules due to the fact that the Public Procurement is financed from the Research, Development and Education Operational Programme.



1.3 If the Contracting Authority uses references to the Act, it means that the Contracting Authority shall proceed analogically in relation to the Act. However, these links to the Act do not imply that the Public Procurement is awarded in accordance with the Act.

1.4 Part of this invitation is also the tender documentation for the Public Procurement.

2. PUBLIC PROCUREMENT SPECIFICATION

2.1 The subject matter of the tender is ensuring the supplies of integrating current transformer (ICT) with other components as described in Annex 3 (*Technical specification*) hereto reaching required parameters. ICT is a device which is measuring the charge of a particle beam passing through it. The device consists of several components: the Integrating Current Transformer itself (this part is installed directly on the beam pipe), electronics module and some auxiliary parts such as cable, chassis, power supply etc. The device needs to be capable of measuring the beam charge in a range 1 - 100 pC.

(“Products”)

2.2 The bidder shall include in its bid the description of the offered Products (e.g. product sheets, data sheets, etc.), so that the Contracting Authority may assess whether its requirements are fulfilled.

3. EXPECTED VALUE OF THE PUBLIC PROCUREMENT

3.1 The expected value of the Public Procurement is EUR 30.000,- without value added tax (VAT).

3.2 **The expected value of the Public Procurement is the maximum price for the Public Procurement that cannot be exceeded**, i.e. the bidder that will offer higher bid price will be excluded from the award procedure.

4. THE TIME AND PLACE OF DELIVERY

4.1 The supplier shall deliver the Products and carry out related activities within 14 weeks from the day, on which received the request of the Contracting Authority.

4.2 The place of delivery is at the address: ELI Beamlines, Průmyslová 836, post code 252 41, Dolní Břežany, Czech Republic or other address in Dolní Břežany specified by the Contracting Authority prior to the delivery of Products.

5. BUSINESS AND PAYMENT TERMS

5.1 Business and payments terms and conditions are contained in the binding draft of the contract that form integral Annex2 hereof. The bidders must fill in the contract where required (i.e. their identification data, and other data that are required by the Contracting Authority).



- 5.2 The bidders are not allowed to change or supplement the draft of the contract, i.e. the bidders must accept the draft of the contract as is attached to this invitation. Bidders particularly shall not refer in their bids to their business conditions and terms.
- 5.3 The draft of the contract must be signed by a person authorized to act on behalf of the bidder. If the draft of the contract is signed on the basis of the power of attorney or other authorization, then the power of attorney or other authorization must be included in the bid.

6. THE DATE AND PLACE OF THE SUBMISSION OF BIDS

- 6.1 Bids must be submitted to the address: **Fyzikální ústav AV ČR, v. v. i. - ELI, DEP. 95 – David Pokorný, Za Radnicí 835, Dolní Břežany, post code: 252 41, Czech Republic**, on **6. 9. 2017** until **14:00** at the latest.
- 6.2 Bids may be supplied by post, courier, or personally to the above mentioned address in working days between 8-15 hours. On the last day of the period for the submission for bids the bids may be submitted until **14:00** o'clock.

7. EXPLANATIONS REGARDING THE TENDER CONDITIONS

- 7.1 The supplier is entitled to require in written form explanations regarding the tender conditions from the Contracting Authority. The written request must be received by the Contracting Authority no later than 4 working days before the deadline for submission of bids.
- 7.2 The Contracting Authority sends explanations regarding the tender condition and possibly related documents no later than 2 working days after receiving written request from the supplier. If the request from the supplier is not delivered in time and despite this fact the Contracting Authority decides to provide explanations regarding the tender conditions, then the time limit in the preceding sentence does not need to be observed by the Contracting Authority.
- 7.3 The explanations regarding the tender conditions (including the exact wording of the request of the supplier) shall be provided to all suppliers at the same time and sent in the same manner as this invitation.
- 7.4 The Contracting Authority is entitled to provide explanations regarding the tender conditions without prior request. In such cases the Contracting Authority proceeds analogically according to the preceding paragraphs.
- 7.5 The Contracting Authority may modify the tender conditions before the deadline for submission of bids elapses. The modification has to be notified to the suppliers in the same manner as the tender conditions that was the subject of modification. If the Contracting Authority through explanations of the tender conditions makes modification of the tender conditions and the nature of the such modification requires it, the Contracting Authority shall reasonably extend the deadline for the submission of bids. In the event such a modifications, which may extend the range of potential bidders, the



Contracting Authority will extend the deadline so that the potential bidders have the entire length of the original deadline for the submission of bid.

8. EVALUATION CRITERIA

- 8.1 In the case that two or more bids contain the same lowest bid price, the time of the submission of the bid shall be a decisive element, i.e. the bid that was submitted earlier shall have priority over the bid that was submitted later.

9. BID PRICE

- 9.1 The Bidders must fill in the **COVER SHEET OF THE BID ANNEX. 1**. The bidder shall also fill in the currency, which must be EUR.
- 9.2 The bid price is the maximum price that cannot be exceeded and shall include all costs that the bidder shall incur during the performance of the Public Procurement.

10. FORMAL BID REQUIREMENTS

- 10.1 All bids must be submitted in writing in duly sealed envelope designated by the identification data of the bidder. The envelope must be designated by inscription "**DO NOT OPEN**" and by title of the Public Procurement „**Integrating current transformer for LUX**". On the envelope shall be address to which the Contracting Authority may send information regarding the Public Procurement.
- 10.2 The bid shall contain identification data of the bidder. This requirement is fulfilled by filling the cover sheet of the bid.
- 10.3 The bid must be submitted in Czech, Slovak or English language. This requirement is fulfilled if documents that by its nature cannot be in the required language are at least translated into one of the required languages.
- 10.4 The bid must contain the draft of the contract signed by the person authorized to act on behalf of the bidder.
- 10.5 All pages in the bid must be secured against unauthorized manipulation (e.g. bound by string and sealed), so that additional documents cannot be inserted nor any pages removed. The bid must be clearly readable, without any crossed words or other discrepancies.
- 10.6 The bidder must submit a bid in its original (paper) form.
- 10.7 The bidder must also include in the bid a CD-ROM, USB, or other generally used data carrier with an electronic copy of the bid (all paper documents in the bid).
- 10.8 If the bid is submitted jointly by several bidders (joint bid), a contact person authorized to represent all such bidders must be designated in the bid.
- 10.9 The bids must be structured in the following manner:



- a) **Cover sheet**
Bidders shall fill in cover sheet
- b) **The description of the offered Products**
- c) **Draft of the contract signed by the person authorized to act on behalf of the bidder.**

11. FINAL PROVISIONS

- 11.1 The Contracting Authority is entitled to cancel the award procedure anytime prior to the signature of the contract.
- 11.2 The Contracting Authority does not allow alternative bids.
- 11.3 The Contracting Authority is entitled to change or supplement the provisions of this invitation.
- 11.4 The bidders shall bear all their costs connected with their participation in the award procedure initiated by this invitation.

12. LIST OF ANNEXES

- a) Annex 1 Cover sheet
- b) Annex 2 Draft of the contract
- c) Annex 3 Technical specification

In Prague on ... 23.8. 2017


.....
RNDr. Michael Prouza, Ph.D., director



ANNEX 1

COVER SHEET OF THE BID - Part No. 1

Public procurement title: Integrating current transformer for LUX

Contracting Authority: Fyzikální ústav AV ČR, v.v.i.
Registered office: Na Slovance 2, 182 21 Praha 8
Registration No.: 68378271
Person authorized to act on behalf of the bidder: RNDr. Michael Prouza, Ph.D., director

Contact person: David Pokorný

Telephone: 00 420 601 555 056

E-mail: david.pokorny@eli-beams.eu

Bidder:
Registered office:
Identification No.:
Tax Identification No.:
Person authorized to act on behalf of the bidder:
Bank account:
Contact person:
Contact address:
Telephone:
E-mail:

Bid price in EUR without VAT



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ANNEX 2

DRAFT OF THE CONTRACT



PURCHASE CONTRACT

This purchase contract ("Contract") was concluded pursuant to section 2079 *et seq.* of the act no. 89/2012 Coll., Civil Code ("Civil Code"), on the day, month and year stated below by and between:

- (1) **Fyzikální ústav AV ČR, v. v. i.,**
(Institute of Physics of the Academy of Sciences of the Czech Republic, a public research institution),
with its registered office at: Na Slovance 2, Praha 8, PSČ: 182 21,
registration no.: 68378271,
represented by: RNDr. Michael Prouza, PhD. – director
("Buyer"); and
- (2) _____,
with its registered office at: _____,
registration no.: _____,
represented by: _____
enrolled in the commercial registered kept by _____
("Seller").

(The Buyer and the Seller are hereinafter jointly referred to as "Parties" and individually as "Party".)

WHEREAS

- (A) The Buyer is a public contracting authority and the beneficiary of a grant of the Ministry of Education, Youth and Sports of the Czech Republic for a project „ELI: EXTREME LIGHT INFRASTRUCTURE – Phase 2“, reg. number: CZ.02.1.01/0.0/0.0/15_008/0000162 ("Project"), within the Operational Programme Research, Development and Education.
- (B) For the successful realization of the Project it is necessary to purchase the Object of Purchase (as defined below) in accordance with the Rules for the Selection of Suppliers within the Operational Programme Research, Development and Education.
- (C) The Seller wishes to provide the Object of Purchase to the Buyer for consideration.



- (D) The Seller's bid for the public procurement entitled "*Integrating current transformer for LUX*", whose purpose was to procure the Object of Purchase ("Public Procurement"), was selected by the Buyer as the most suitable.

IT WAS AGREED AS FOLLOWS:

1. BASIC PROVISIONS

- 1.1 Under this Contract the Seller shall deliver to the Buyer the integrating current transformer with components as described in integral Annex 1 (*Technical Specification*) to this Contract in the required quality and with the properties and software described therein ("Object of Purchase") and shall transfer to the Buyer ownership right to the Object of Purchase, and the Buyer shall take over the Object of Purchase and shall pay the Seller the Purchase Price (as defined below), all under the terms and conditions stipulated in this Contract.
- 1.2 Under this Contract the Seller shall also carry out the following activities ("Related Activities"):
- a) transport the Object of Purchase to the place of delivery;
 - b) deliver to the Buyer all documents required in the Technical specification (as declarations, manuals etc.);
 - c) cooperation with the Buyer during the performance of this Contract, namely in the extent as stipulated in Annex 1.

2. THE PLACE OF DELIVERY

The place of delivery is at the address: Fyzikální ústav AV ČR v.v.i/ ELI-Beamlines, Průmyslová 836, 252 41 Dolní Břežany, Czech Republic or any other address in Dolní Břežany, Czech Republic, which the Buyer communicated to the Seller prior to the delivery of the Object of Purchase.

3. THE TIME OF DELIVERY

- 3.1 The Seller shall deliver the Object of Purchase and shall carry out Related Activities **within fourteen (14) weeks from the date when the written instruction of the Buyer to fulfill this Contract (hereinafter the "Instruction") is delivered to the Seller.**
- 3.2 The Instruction pursuant Sec. 3.1 hereto is considered to be delivered to the Seller on the date when the Instruction was sent on the following e-mail address of the Seller **ADD**. The Seller is obliged to confirm submission of the Instruction at the latest the following working day after it's delivery via e-mail on the following address of the Buyer david.pokorny@eli-beams.eu. If such confirmation shall not be received by the



Buyer, the Buyer undertakes to verify whether such Instruction was delivered to the Seller. Such verification by the Buyer does not affect the Seller's duty date of fulfilment pursuant this Contract.

- 3.3 The Buyer is entitled to prolong in writing the term of delivery referred to in paragraph 3.1 of this Article to a maximum of four weeks in total in the case that the place of delivery shall not be ready for installation of the Object of Purchase. The Buyer is obliged to inform the Seller about the change of the date of delivery within at least 15 calendar days before deadline stated in paragraph 3.1. Extension of term of performance by the Buyer under this paragraph hereof does not affect the Purchase Price under the Contract, nor does it impose any sanctions to any Contractual Party.

4. THE OWNERSHIP RIGHT

The ownership right to the Object of Purchase shall be transferred to the Buyer upon the signature of the handover protocol (delivery note).

5. PRICE AND PAYMENT TERMS

- 5.1 The purchase price for the Object of Purchase is EUR ("Purchase Price") without value added tax ("VAT"). VAT will be paid in accordance with the applicable legal regulations.
- 5.2 The Purchase Price cannot be exceeded and includes all costs and expenses of the Seller related to the performance of this Contract. The Purchase Price includes, among others, all expenses related to the handover of the Object of Purchase and execution of Related Activities, costs of copyright, insurance, customs, software, warranty service and any other costs and expenses connected with the performance of this Contract.
- 5.3 The Purchase Price for the Object of Purchase shall be paid on the basis of a tax document – invoice, to the account of the Seller designated in the invoice. **The Purchase Price shall be paid after the delivery of the Object of purchase to the place of delivery and after the signature of the handover protocol by the Buyer.**
- 5.4 The Buyer shall realize payments on the basis of duly issued invoices within 30 days from their receipt.
- 5.5 The invoice issued by the Seller as a tax document must contain all information required by the applicable laws of the Czech Republic. Invoices issued by the Seller in accordance with this Contract shall contain in particular following information:
- a) Name and registered office of the Buyer,
 - b) Tax identification number of the Buyer,
 - c) Name and registered office of the Seller,



- d) Tax identification number of the Seller,
 - e) Registration number of the tax document,
 - f) Scope of the performance (including the reference to this Contract),
 - g) Date of the issue of the tax document,
 - h) Date of the fulfilment of the Contract,
 - i) Purchase Price,
 - j) Registration number of this Contract, which the Buyer shall communicate to the Seller based on Seller's request before the issuance of the invoice,
 - k) Declaration that the performance of the Contract is for the purposes of a project „ELI: EXTREME LIGHT INFRASTRUCTURE – Phase 2“, reg. number: CZ.02.1.01/0.0/0.0/15_008/0000162.
- 5.6 In case that the invoice shall not contain the above mentioned information, the Buyer is entitled to return it to the Seller during its maturity period and this shall not be considered as a default. The new maturity period shall begin from the receipt of the supplemented or corrected invoice to the Buyer.
- 6. SELLER'S RIGHTS AND DUTIES**
- 6.1 The Seller shall ensure that the Object of Purchase and Related Activities are in compliance with this Contract including all its annexes and applicable legal (e.g. safety), technical and quality norms.
- 6.2 During the performance of this Contract the Seller proceeds independently. If the Seller receives instructions from the Buyer, the Seller shall follow such instructions unless these are against the law or in contradiction to this Contract. If the Seller finds out or should have found out if professional care was exercised that the instructions are for any reason inappropriate or illegal or in contradiction to this Contract, then the Seller must notify the Buyer.
- 6.3 All things necessary for the performance of this Contract shall procure the Seller, unless this Contract stipulates otherwise.
- 6.4 In the case of unavailability of certain quoted components of the Object of the Purchase mentioned in the Seller's technical specification the Seller is entitled to substitute such components with equal or better quality components.
- 6.5



- c) request adequate discount from the Purchase Price.

The choice among the above mentioned rights belongs to the Buyer. However, in case of a removable defect that occurs for the first time the Buyer shall not request removal of the defect by delivery of new Object of Purchase or its individual parts.

- 8.7 The Seller shall remove the defect within 10 working days. In cases where it is not possible for objective reasons proven to the Buyer by the Seller the Parties shall agree on another sufficient deadline.
- 8.8 Parties shall execute a protocol on the removal of the defect, which shall contain the description of the defect and the confirmation that the defect was removed. The warranty period shall be extended by a period of time that elapses between the notification of the defect until its removal in cases where the Buyer was prevented from using the Object of Purchase for its intended purpose.
- 8.9 In case that the Seller does not remove the defect within stipulated time or if the Seller refuses to remove the defect, then the Buyer is entitled to remove the defect at his own costs and the Seller shall reimburse these costs within 10 days after the Buyer's request to do so.
- 8.10 The warranty does not cover defects caused by unprofessional manipulation or by the failure to follow Seller's instructions for the operation and maintenance of the Object of Purchase.

9. RIGHT OF WITHDRAWAL, CONTRACTUAL PENALTIES

- 9.1 The Buyer is entitled to withdraw from this Contract, if any of the following circumstances occur:
- a) the Seller is in delay with the fulfilment of this Contract and such delay lasts more than 4 weeks; or
- b) the insolvency proceeding is initiated against the Seller.

10. SPECIAL PROVISIONS

By signing this Contract, the Seller becomes a person that must cooperate during the finance control within the meaning of Section 2 letter e) of the act no. 320/2001 Coll., on finance control in the public administration, and shall provide to the Directing Body of the Operational Programme Research, Development and Education or other control bodies access to all parts of the bid, Contract or other documents that are related to the legal relationship formed by this Contract. This duty also covers documents that are subject to the protection in accordance with other acts (business secrets, secret



information, etc.) provided that control bodies fulfil requirements stipulated by these acts. The Seller shall secure that all its subcontractors are also obliged to cooperate with control bodies in the above stipulated extent. The possibility of effective control must be preserved until the year 2027.

11. FINAL PROVISIONS

- 11.1 This Contract is governed by the laws of the Czech Republic, especially by the Civil Code.
- 11.2 All disputes arising out of this Contract or out of legal relations connected with this Contract shall be preferable settled by a mutual negotiation. In case that the dispute is not settled within sixty (60) days, such dispute shall be decided by courts of the Czech Republic in the procedure initiated by one of the Parties.
- 11.3 All modifications and supplements of this Contract must be in writing.
- 11.4 If any of provisions of this Contract are invalid or ineffective, the Parties are bound to change this Contract in such a way that the invalid or ineffective provision is replaced by a new provision that is valid and effective and to the maximum possible extent correspond to the original invalid or ineffective provision.
- 11.5 This Contract is executed in four (4) counterparts and every Party shall receive two (2) counterparts.
- 11.6 An integral parts of this Contract are Annex 1 (Technical Specification - RSD). If Annex 1 (Technical Specification) uses the term "Contracting Authority" or "contracting authority" it means Buyer. If Annex 1 (Technical Specification) uses the term "Supplier" or "supplier" it means Seller.
- 11.7 This Contract shall be valid and effective on the date of the signature of both Parties.

IN WITNESS WHEREOF attach Parties their handwritten signatures:

Buyer

Signature: _____

Name: RNDr. Michael Prouza, PhD.

Position: director

Date:

Seller



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YOUTH AND SPORTS

Signature: _____
Name: _____
Position: _____
Date: _____



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ANNEX 1

TECHNICAL SPECIFICATION - RSD

(NOTE: Annex No 3 to the Invitation to bid for the Public Procurement shall be attached hereto by the Contracting Authority before signature hereof by the Contracting authority after the Public Procurement procedure is finished)



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ANNEX 3

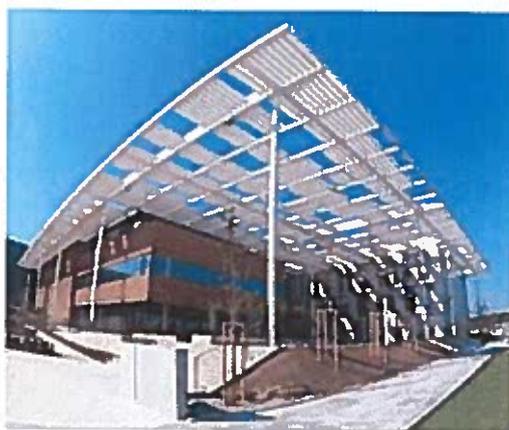
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[RSD product category A]

Integrating current transformer for LUX (Electron beam diagnostics)

TP17_078



Keywords

Beam current transformer, beam charge monitor

	Position	Name
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Reviewed By

<i>Name (Reviewer)</i>	<i>Position</i>	<i>Date</i>	<i>Signature</i>
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Approved by

<i>Name (Approver)</i>	<i>Position</i>	<i>Date</i>	<i>Signature</i>
Georg Korn	Science and Technology Manager, Scientific coordinator of RP2-6		

Revision History / Change Log

<i>Change No.</i>	<i>Made by</i>	<i>Date</i>	<i>Change description, Pages, Chapters</i>	<i>TC rev.</i>
1	K. Kruchinin	24.05.2017	RSD draft creation	A
2	K. Kruchinin, A.Kuzmenko	29.05.2017	RSD update, version for internal review	B
3	A.Kuzmenko	02.06.2017	RSD update, final version	C
4	A.Kuzmenko	09.06.2017	RSD update (chapter 1.4), final version for approval	D

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1. Introduction

1.1. Purpose

This Requirements Specification Document (RSD) lists the technical requirements and constraints on product applying in RA2 program of ELI project. This can lead to the identification of product interfaces with the ELI science based technology and ELI building facility. This RSD also acts as the parent document for the technical requirements that need to be addressed in lower level design description documents.

1.2. Scope

This RSD contains all of the technical requirements: functional, performance, operational and design, delivery, safety and quality requirements for the following product (*LUX, Electron beam diagnostics, PBS: E.E5.LUX.ELE.2*): **Integrating current transformer** (further "System"). This product is a product Category A.

Category A is an Off-the-shelf Product without necessity of modifications and necessity to be subjected to a verification programme (review of design, inspection and testing) for ELI applications by the actual project specifications. All verification activities performing by a supplier shall be executed in accordance with the supplier's plan of outgoing inspection and tests. Internal Acceptance Procedure of the product Category A shall be established and applied before the product implementation (operation phase).

1.3. Terms, Definitions and Abbreviations

For the purpose of this document, the following abbreviated terms are applied:

Abbreviation	Meaning
CA	Contracting Authority
ELI	Extreme Light Infrastructure
RA2	Research activity 2
RSD	Requirements Specification Document
BCM	Beam Charge Monitor
ICT	Integrating Current Transformer
RF	Radio Frequency
UHV	Ultra High Vacuum

For the purpose of this document, the following definitions are applied:

- A **Rack Unit** (abbreviated **U** or **RU**) is a unit of measure defined as 44.45 mm of vertical space that equipment occupies in the rack according to EIA-310.

1.4. References to standards

If this document includes references to standards or technical documents the CA allows/permits also another equal solution to be offered. If a supplier offers another equal solution the CA shall not reject its bid, once the supplier by appropriate means in the bid proves that the offered supplies, services or works meet in an equivalent manner the requirements including references to standards or technical documents.

2. Functional, Performance and Design

2.1. General requirements

REQ-021045/A

The Supplier shall deliver the following parts of the System:

- Integrating current transformer (ICT);
- Beam charge monitor RF receiver;
- Shielded chassis with power supply and with one wired station for one BCM module;
- 50-ohm double shielded cable.

REQ-021056/A

The System shall have the resolution 1 % of measured value or better.

REQ-021107/A

The System shall have accuracy +-4 % of measured value or better.

2.2. Integrating current transformer (ICT) requirements

REQ-021046/A

The noise of the ICT in single bunch measurement shall not exceed 20 fC.

REQ-021047/A

The charge measurement range of the ICT in single bunch mode shall be of 50 fC – 300 pC.

REQ-021048/A

The ICT shall be UHV compatible and shall be able to be totally operated under vacuum level down to 10^{-10} mbar.

REQ-021049/A

Output non-linearity of the ICT signal shall be less than 3 %.

REQ-021050/A

The ICT dimensions shall be compatible with DN40 vacuum pipe (40 mm pipe outer diameter and 38 mm pipe inner diameter).

2.3. Beam charge monitor RF receiver requirements

REQ-021051/A

The electronics module shall be Eurocard type in format 100 x 160 mm and 20 mm wide to be plugged into BCM chassis station.

REQ-021052/A

The beam charge monitor RF receiver shall be compatible with the ICT.

2.4. Shielded chassis requirements

REQ-021053/A

The shielded chassis shall be compatible with the ICT and shall be shielded from RF.

REQ-021054/A

The shielded chassis shall be compatible with standard 19" racks x 3 U format.

REQ-021055/A

The shielded chassis shall have a power supply compatible with input voltage in minimal ranges of 90 – 125 V AC and 210 – 245 V AC, at 50 – 60 Hz (switch selectable).

REQ-021057/A

The shielded chassis shall have one wired station for one BCM module.

2.5. Cable requirements

REQ-021058/A

Cable shall be compatible with the ICT and BCM.

REQ-021059/A

The resistance of cable shall be 50 ohm.

REQ-021060/A

The cable shall be double shielded.

2.6. Interface requirements

REQ-021108/A

The System shall have a direct connection to standard PC and be controlled with a software provided by the Supplier.

REQ-021109/A

The System shall have the USB 2.0 serial connection interface.

REQ-021110/A

The software of the System shall run on Windows operating system.

3. Delivery requirements

3.1. General requirements

REQ-021061/A

The transportation to the final destination shall be conducted by the Supplier.

REQ-021062/A

The System shall be delivered in protective package preventing damage.

REQ-021111/A

All the System components shall be cleaned and packaged in clean environment of class 5 according to ČSN EN ISO 14644 (equivalent to ISO 14644) or cleaner.

NOTE 1: The components that will not be placed in vacuum can be cleaned and packaged in clean environment of class 7 according to ČSN EN ISO 14644 (equivalent to ISO 14644).

NOTE 2: If the Supplier cannot fulfill class 5 (for vacuum compatible components) and class 7 cleanliness requirements, the Supplier and the CA shall agree on the cleaning method to be used to clean devices without decreasing the devices' performance and to avoid contamination of the clean space of the CA.

4. Safety Requirements

REQ-021063/A

The Supplier shall supply a Declaration of Conformity or any other equivalent document legally recognized and accepted in the Czech Republic for each product type if the appropriate legislation determines the Supplier's obligation to have a Declaration of Conformity (or the equivalent document) for the purposes of a Device sale in the Czech Republic to fulfil the requirements of 2001/95/EC directive or applicable Czech law.

5. Quality Requirements

5.1. General Quality Requirements

REQ-021064/A

The Supplier shall provide the Product User Manual as part of the delivered System. The Manual shall include the instructions and descriptions regarding the following procedures:

- transport, handling and storage;
- installation, cleaning and calibration (see REQ-021066/A);
- user manual for the software;
- safe operation and maintenance procedures.

NOTE: The scope of the User Manual shall be agreed with the CA before Product delivery.

REQ-021065/A

The Supplier shall provide information on execution of outgoing check of the Product. At least this information shall comprise declaration about execution of outgoing check and declaration of conformity with technical requirements defined by the product RSD and completeness of the Product.

REQ-021066/A

The Supplier shall supply Calibration Certificate which shall establish:

- the relation between quantity values with measurement uncertainties provided by measurement standards and the corresponding indications with associated measurement uncertainties;
- the relation for obtaining a measurement result from an indication (if required).

NOTE: The Supplier shall define calibration interval for the System.

REQ-021067/A

The Supplier shall establish and maintain a non-conformance control system compatible with ČSN EN ISO 9001 (equivalent to EN ISO 9001).