INSTITUTUL NAȚIONAL DE CERCETARE - DEZVOLTARE
PENTRU INGINERIE ELECTRICĂ INCDIE ICPE-CA

Nr. Registrul Comerțului
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Cod Fiscal R 13827850
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SPECIFICATIONS FOR

Casting installation with fast cooling, on rotating tambour, for the laboratory (melt-spinning)

Date of offers opening:

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GENERAL DIRECTOR
Prof. PhD. Phys. Wilhelm Kappel

A. Minimal technical requests (for eligibility) – not scored

Domain of use:

The installation is used for obtaining amorphous bands through ultra rapid solidification in inert atmosphere. The samples are melted through induction in a crucible of quartz or boron nitride with purging them on a solid rotating copper spinning wheel.

B. Minimal technical requests (for eligibility) – not scored

1. **Domain of use:**

The installation is used for obtaining amorphous bands through ultra rapid solidification in inert atmosphere. The samples are melted through induction in a crucible of quartz or boron nitride with purging them on a solid rotating copper spinning wheel.

2. **Minimal technical requests for the eligibility of the offer:**

No crt.	Composition	Minimal technical characteristics	
1.	General characteristics	1.1	**Domain of use:** metallic materials
		1.2	Obtaining of amorphous bands of 20 – 60 micrometers thickness ,1-20 mm width, minimum weight of the batch 10 g, maximum weight 100 g
		1.3	Vacuum pump and vacuum measuring system 10^{-6}
		1.4	Measuring pyrometer of batch temperature 800 – 3000^{o}C and measuring pyrometer of the temperature between contact surface of batch and spinning wheel in the domain 50 – 1000 ^{o} C and/or measuring pyrometer of the bands temperature.
		1.5	Tampon recipient for ensuring the overpressure of inert gas within the crucible.
		1.6	Variations for the speed of spinning wheel drive in the domain 5 – 50 m/s – manual and automatic control.
		1.7	High voltage RF generator 25kV with short circuit protection in high voltage, also for the rest of the machines within the system.
		1.8	Cooper spinning wheel with minimal diameter Φ 250 mm, minimal width 50 mm, with incorporated cooling system (water circuit)

		1.9	Standard accessories: quartz crucibles and boron nitride with exchangeable jets at different apertures (minimum 3 different dimensions)
2.	Commercial requests	2.1	Post warrantee insurance, maximum intervention time of 72 hours from the event signalization
		2.2	**Delivery period and conditions:** FRANCO-BENEFICIARY INCDIE ICPE-CA with transport, mounting and instruction at the beneficiary headquarter, included in the price. Delivery in minimum 5 months, maximum 6 months from the signing of the contract.
		2.3	**The agreed method of payment by INCDIE ICPE-CA is:** - 20 % - within 10 days from the signing of the contract; - 80 % - within 10 days from the mounting and the instruction of the staff at the headquarter of the beneficiary and signing of the reception document, at the headquarter of INCDIE ICPE-CA
		2.4	**Validity period of the offer:** 60 days from the deadline of the offers submission.
		2.5	**Warrantee:** min. 24 months
		2.6	**Delivery period:** min. 5 months max from the signing of the contract.
		2.7	**Instructing the staff:** in the laboratory of the beneficiary.

C. Evaluated technical and functional characteristics.

Technical and functional characteristics

No crt.	Technical characteristics	Allocated percentages %
1.	The copper spinning wheel minimum diameter Ø 250 mm, minimum width 50 mm, weight batch 10-100 g, minimum speed control 10 m/s and maximum 50 m/s	5
2	Minimum volume of the working chamber 95 dm^3	5
3	Possibility to work in high vacuum 10^{-6} mbar and with Ar overpressure	10
4	Standard accessories, crucibles with boron nitride 4 pcs.	5
5	Standard accessories, quartz crucibles 4 pcs	5
6	Automatic control of the spinning wheel temperature, automatic control of the melting temperature	10
7	Post warrantee service and post warrantee of min 5 years	5
8	TOTAL score	55

D. Main financing and payment possibilities:

- The financing sources of the contract which follows to be submitted are:

Structural Funds Project: „Modernization of the infrastructure designed for promoting the research potential within electrical engineering for applications in the priority economical areas of Romania as a member of EU" program/project: POS CCE – AXA II, Project nr. 104, acronym PROMIT Contract: 05/01.03.2009

E. Estimated value of the contract: 110 000 Euro

The offers at which the price is given in Euro, the valid exchange rate is the one from the day of the auction launching.

F. Criteria of evaluation and assignment of scores:

Evaluation criteria	**Maximum percentage**
Price of the offer Determining algorithm: $P=P_{min}/P_n$ x 35 *Legend:* P_{min} the lowest offered price P_n price of the offer „n" P obtained score	35%
Technical and functional characteristics according to the specifications for chapter C: 1. The calculation method of the effective score is for the numeric values: The offer with the best characteristic, gets the maximum score, the other offers gets points with the following formula: $p_i = (C_i / C_{max})$x P_{max}, where, p_i – represent the score obtained by the offer "i" C_{max} – represent the value of the best characteristic for that request P_{max} – represent the maximum score that you can get for that characteristic C_i – represent the characteristic value form the offer "i" Observation: If a system or a technical request does not meet the technical request from the table from chapter C, it will receive 0 points. 2. To evaluate the technical characteristics of Chapter C, which does not measure, the maximum score is given if the assessed technical feature is offered and score will be 0 if it is not offered. 3. For each evaluated request is requires complete technical explanation.	55%
Warrantee Determining algorithm: $P=G_n/G_{max}$ x 10	10%

Legend: G_n warrantee of the offer "n" G_{max} maximum offered warrantee P maximum obtained score	

G. **The main criterion on which the public acquisition contract will be assigned is: "**the most advantageous offer from the economical point of view"

H. Legal basis:

Government Emergency Ordinance nr. 34/2006, appeared in the Official Monitor nr. 418/15.05.2006 regarding public acquisitions with subsequent changes.

It is mandatory that the presentation of the technical proposal to meet the order requirements of this specification, the technical characteristics to be presented in the order from the table in order to be easily identified for the assessment.

All documents will be signed in blue.

Date: 30.07.2009

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