



Project co-financed by the European Regional Development Fund under the Innovative Economy
Operational Program

Krakow, 27/01/2015

REQUEST FOR QUOTATION NO. PLCRC/2830700/06/47/2015

I) Buyer information:

ABB Sp. z o.o.
1 Zeganska St.
04-713 Warsaw
VAT PL526-030-44-84
Tel. +48 12 42 44 100
Fax. +48 12 42 44 101

II) Description of work / services / item requirements: a stand for diagnostic analysis - real-time diagnostic and testing system

1. Specification:

1) Processing unit:

a) Version 1

- X86 technology (Quad-Core AMD Opteron 2.8 GHz)
- 4 core processor
- Compatibility with Matlab Simulink software
- Cache data memory 4 x 64 KB L1
- Instruction cache memory 4 x 64 KB L1, 4 x 512 KB L2
- Local memory for applications and data DDR2-800 SDRAM 1GB
- 4 x 128MB DDR2-267 SDRAM memory data host Exchange
- 2 MB for the boot firmware
- Ability to build a multiprocessor system
- Dedicated software for the card:
 - to set up real-time applications to provide full support for control board
 - supporting Ethernet interface

b) Version 2

- Technology dual-core PowerPC architecture (Freescale QorIQ P5020 dual-core 2 GHz)
- Compliance with the program Matlab Simulink
- Ability to build a multiprocessor system
- Dedicated software for the card:
 - To configure real-time applications to provide full support for control board
 - supporting Ethernet interface

2) Universal card inputs / outputs (2 pcs.):

- 20-channel analog-to-digital converters ADC 5 odseparowanymi
- 8 parallel DACs
- Serial interface
- 12 bit resolution for A / D conversion
- The time A / D conversion for all services 32.5 20 inputs
- For 12 bit D / A conversion
- Conversion time D / A 6 us
- Input / output voltage +/- 10 V
- 16 I / O lines of digital
- 8 of the counting
- 1 input interrupt support
- I / O lines operating in the TTL



- Serial UART serial interface, RS232
 - The ability to measure the frequency of the signal (quadrature for 1, 2 or 4 channels)
 - PWM signal generation operating at a frequency of at least 6.25 MHz and a resolution of 160 ns (40 ns for the PWM period of less than 2.6 ms)
- 3) Encoders card and connection panel with the following parameters:
- 5 inputs incremental encoders
 - 24 - bit counter
 - The maximum input frequency of 1.25 MHz
 - Standard TTL operation
 - Ability to work under quadrature (counting each edge)
- 4) Analog to digital conversion with a connection panel with the following parameters:
- 32 ADC input channels
 - Resolution 4, 8, 12, 16 bit (programmable)
 - The range of - / + 5 V or - / + 10 V (programmable)
 - Conversion time of at least 66.9 us (16 bit with all working channels)
- 5) The DAC card and connection panel with the following parameters:
- At least six analog output channels
 - Resolution - 16 bit
 - Programmable ranges: - / + 5V, - / + 10V or 0 - 10 V (programmable)
 - Minimum sampling time 1.6us
 - Reset to 0 V in case of failure
- 6) The input-output card with digital panel meters and the connection with the following parameters:
- At least 8 channels of counting working with a minimum resolution of 200 ns
 - Each channel independently programmable
 - Fast dual-ported RAM for data storage
 - 32 digital, programmable inputs and outputs (standard TTL)
 - 2 external lines of the type of trigger (trigger).
- 7) Software:
- Software for automatic code generation with the ability to control object modeling software and drivers and cards I / O.
 - The environment should provide communication and hardware support.

Warranty card min. 24 months.

Training for 3 people

2. The Buyer does not accept partial bids.

3. The bid shall include:

- Net unit price for the points (1-7) in PLN or EUR,
- 24-month support and software maintenance,
- Transport, insurance and customs cost included, (if applicable),
- Training cost included,
- Information regarding local support,
- Information regarding required technical periodic reviews,
- Information regarding warranty and post warranty services (how it is organized),
- Information regarding installation and and start-up,
- The validity start and end date of the offer,
- Payment terms – first Wednesday after 45 days from invoice receipt,
- Tender name and address,
- Date of bid submission.

4. All conditions for the implementation of the contract including more specific conditions e.g. payment terms and delivery terms have been set out in the attached outline agreement. The Buyer does not allow any changes attached outline agreement.

Headquarter of the Company 1 Żegańska Street 04-713 Warszawa, Poland tel.: 22 22 02 000, 22 02 001 fax: 22 22 02 031, 22 02 231	Corporate Research Center In Kraków 13A Starowiślna Str. 31-038 Kraków, Poland Tel.: 22 223 9500 Fax: 22 223 9501	NIP / tax identity no. 526-030-44-84, PL 5260304484 Environmental Protection No: GIOŚ E0008536WBW Share capital: 350.655.734,00PLN Internet address: www.abb.pl	District Court for the Capital City of Warsaw, XIII Economic Department, Polish Court Register under the KRS No. 0000004745
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5. The Buyer may reject the bid if:

- The bid is delivered after submission date,
- The content of the bid is not consistent with the description,
- The bid contains an abnormally low price,
- Other reasons

6. Statements and documents:

- Up-to-date registration confirming document/s, issued not earlier than 3 months before the deadline for submission of the bid,
- Attorney to sign documents (bids, agreements),
- Testimony of current and covering the period of implementation of the object of the contract liability insurance policy, or other types of insurance depending on the service,
- Statement that the supplier is not in arrears with the payment of taxes, fees and premiums for health or social insurance - issued not earlier than 2 months before the deadline for submission of the bid,
- Documented financial ability to complete the task.

In order to determine the economic and financial situation of the supplier, current financial statements needs to be delivered.

7. Bid validity

The bid shall be valid minimum until **11th of March 2015**.

8. Bids submission:

The bids are to be sent to anna.marszalek@pl.abb.com.

9. Deadline for sending the initial offer.

5th of February 2015

10. Bid evaluation

Evaluation of submissions will be carried out as a two-step process based on a points system.

The preliminary review will select 3 (or less if there are less than 3 bids) tenders which achieve the highest number of points in accordance with the criteria's (section 11).

The second review (following bid update or negotiation) will select final bid in accordance with the criteria (section 11).

Negotiation will end on **12th February 2015** (end of the day) and by this time final offer should be submitted.

11. The bids will be evaluated and weighted as follows:

- Best price - 100%

12. Bid response by the Buyer:

The Bidder will be informed whether her/his offer has won by e-mail.

13. Deadline for completion the task (incl. commissioning and training) not later than:

6th of March 2015

14. Contact person:

For more technical information please contact Piotr Lipnicki at e-mail:
piotr.lipnicki@pl.abb.com.

15. Attachments:

- Outline agreement.



III. Requirements for Suppliers:

The bid submittal can only be from suppliers / contractors who:

- have the authority, the necessary knowledge, experience and technical capacity, as well as resources to fulfill the bid requirements,
- are in a situation of economic and financial capacity,
- submit the bid with the required documents, statements, attachments and certificates,
- will be responsible for the quality and compliance with all the technical provisions specified,
- commit to carry out the work / service in accordance with the requirements of applicable Health and Safety and Environmental Protection Laws and have all appropriate permits and accreditations.

IV) Additional information:

- This RFQ is an invitation to send a bid
- The Bidder bears their own costs and all risks associated with the preparation and submission of the bid.
- The bids will not be sent back.
- ABB reserves the right to rescind or cancel the procedure at any stage without giving reasons.
- ABB reserves the right until, the deadline for submission of bids, to make changes to the requirements, and commits as such to inform parties affected by such a change,
- ABB reserves the right to accept the whole or any part of the bid
- ABB reserves the right to negotiate with bidders.
- The entire process is conducted in accordance with procedures of ABB Sp. z o.o. – Public Procurement Law is not applicable
- Buyer rejects the possibility of concluding an agreement by the omission
- This procedure does not cause for any entity submitting a bid exclusive rights to negotiate contract terms
- Each of the parties at any stage of the negotiations has the right to submit a written statement of the completion of negotiations without giving reasons
- To avoid a doubt, ABB Sp. z o.o. declares that this procedure does not constitute a commitment or claims to conclude of any contract and the payment of compensation in case of no conclusion
- The Bidder and ABB Sp z o.o. are obliged to confidentiality, for an indefinite period, in relation to the information obtained during the proceedings and negotiations in order to conclude the contract.
- The Bidder accepts ABB General Terms and Conditions for Purchase of Goods.

Current RFPs can be tracked at <http://new.abb.com/pl/o-nas/technologie/korporacyjne-centrum-badawcze-abb/grant-unii-europejskiej>

Thank you and best regards,
Anna Marszałek
Anna.marszalek@pl.abb.com