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Krakow, April 27<sup>th</sup>, 2020

## To all contractors

*Concerns: procedure conducted on the basis of the Article 4d item 1 clause 1 of the Act of January 29, 2004 – Public Procurement Law (consolidated text: Polish Journal of Laws of 2019, item 1843, as amended), for delivery of linear stages for the scanning transmission x-ray microscope for the execution of the project called „Construction of the research end-station scanning transmission X-ray microscope in National Synchrotron Radiation Centre SOLARIS”.*

## QUESTIONS AND RESPONSES TO THE INVITATION TO TENDER

*Dear Sirs,*

The Ordering Party presents below questions and responses to the Invitation to tender, in the procedure conducted for the abovementioned scope:

### **Grup A – Stages with piezo motors:**

- 1) Stages with motion range from 50 mm to 60 mm, stages should have the width between 20 mm and 35 mm – 2 pcs,
- 2) Stages with motion range from 20 mm to 35 mm, stages should have the width between 20 mm and 35 mm – 2 pcs.
- 3) Controller (controllers) with drivers for all the above stages (points 1) and 2)).
- 4) Stage with motion range between 30 mm and 60 mm, the width of the base between 50 mm and 75 mm, bidirectional repeatability of 100 nm or better – 1 pcs.
- 5) Controller with a driver for a stage from point 4 – 1 pcs.

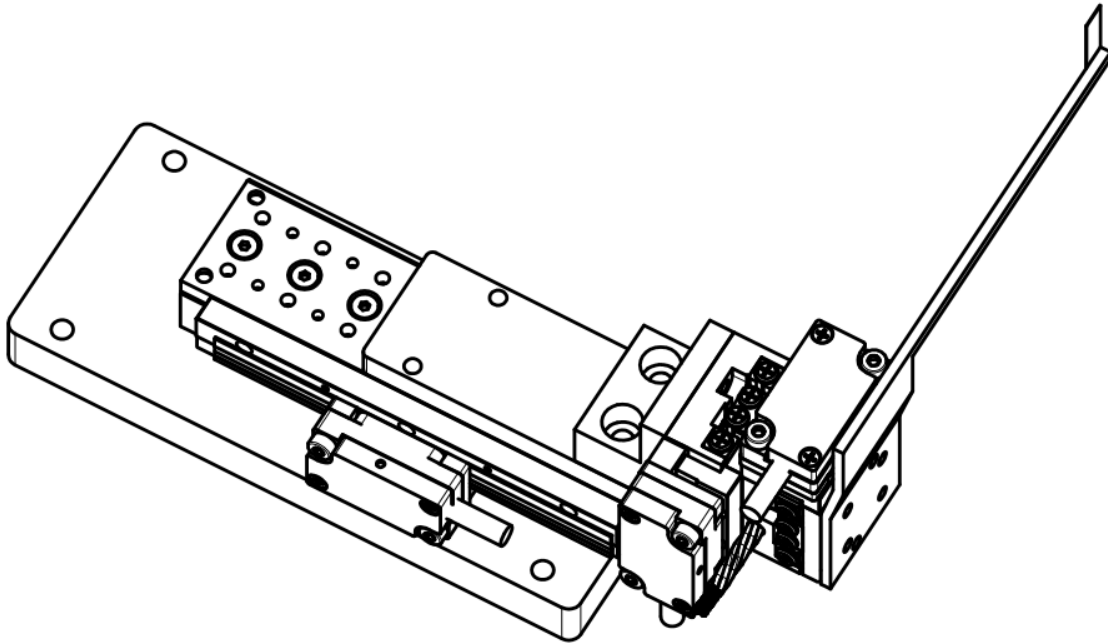
### **Questions 1:**

Do you have a schematic drawing of the application? If so, provide it, please.

### **Response 1:**

*Two of the stages from point 1 and one from point 2 are going to be used in XYZ configuration as shown on a drawing below.*

*The drawing of possible configuration.*



*Other stages work independently.*

**Questions 2:**

What is a mass of the load and what is required force to move the load in particular directions?

**Response 2:**

*The stages in a configuration XYZ have a load of about 50 g. The stage from point 2 has a load of about 100g. The second stage from point 4 has a load of about 250 g. Required force is 3 N.*

**Questions 3:**

How the motion is controlled?

**Response 3:**

*The Ordering Party informs the controllers from point 5 are going to be connected to a Windows computer running custom application.*

**Questions 4:**

Is the load mounted on their slides and the stages are moving it?

**Response 4:**

*The Ordering Party informs that the load is mounted directly on the slides.*

**Questions 5:**

Are any other forces involved in the setup?

**Response 5:**

*The Ordering Party informs that there are no other forces involved.*

**Group B – Linear stages with stepper motors:**

- 1) Linear stages with the width between 55 mm and 70 mm
  - a) Motion range between 20 mm and 30 mm – 1 pcs.
  - b) Motion range between 45 mm and 55 mm – 3 pcs.
- 2) Linear stage with the width between 90 mm and 120 mm, motion range between 25 mm and 100 mm – 1 pcs.

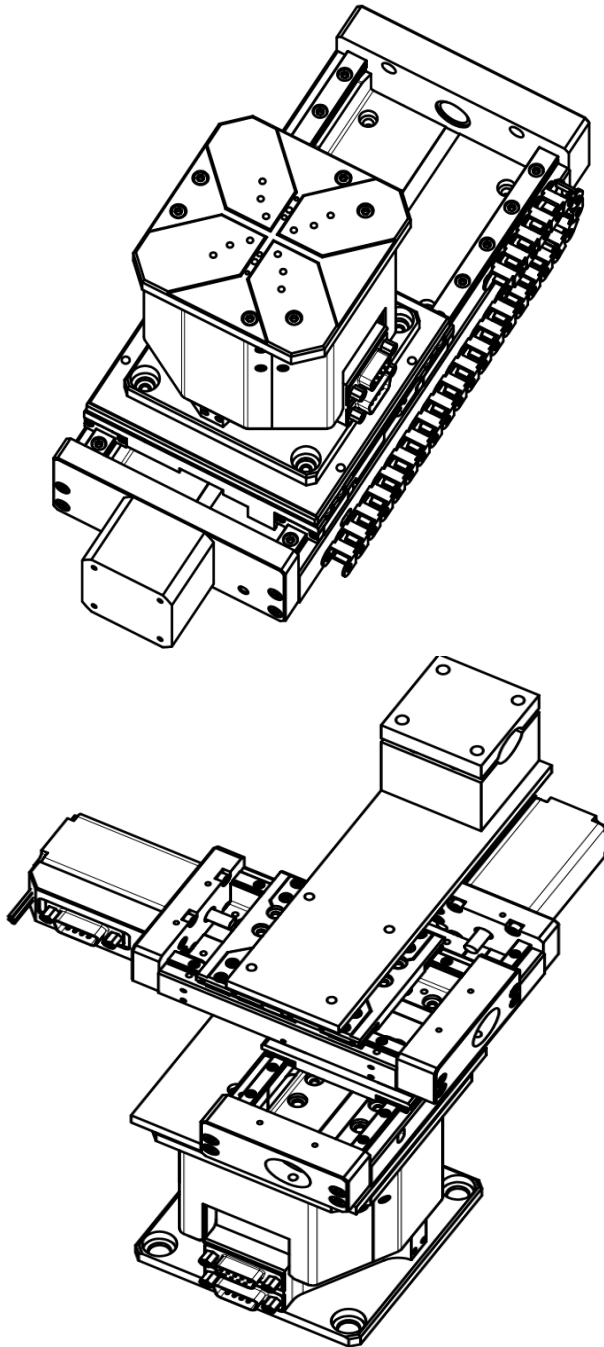
- 3) Lift stages with the width between 90 mm and 100 mm and length between 90 mm and 150 mm, range of motion between 15 mm and 35 mm – 2 pcs.

**Questions 1:**

*Do you have a schematic drawing of the application? If so, provide it, please.*

**Response 1:**

*The stages from this group are going to be used in two configurations:*



**Questions 2:**

What is a mass of the load and what is required force to move the load in particular directions?

**Response 2:**

*The load for the stages is going to be up to about 1 kg. The required force is a minimum 20 N.*

**Questions 3:**

How the motion is controlled?

**Response 3:**

*The Ordering Party informs the stages of this group are going to be powered and controlled using a motion controller already own by the Ordering Party (motion controllers may have integrated or separate stepper motor drivers, the one used in NCPS Solaris have integrated motor drivers).*

**Questions 4:**

Is the load mounted on their slides and the stages are moving it?

**Response 4:**

*The Ordering Party informs that the load is mounted directly on the slides.*

**Questions 5:**

Are any other forces involved in the setup?

**Response 5:**

*The Ordering Party informs that there are no other forces involved.*

**The above questions and responses to the Invitation to tender are its integral part.**

**The Ordering Party informs that the deadline for the submittal and opening of the offers is changed to April 30<sup>th</sup>, 2020. At the same time, the place and time of the submittal and opening of the offers remain unchanged.**

*Yours faithfully*

*Anna Łukasik-Socha*