

**N00173 -02-R-JW04 - QUESTIONS AND ANSWERS**

**Question 1:** Is this competition open to foreign firms?

**Answer 1:** This competition will be open to foreign firms subject to the requirements of FAR 25, which is accessible on our contracting division website under the bullet for acquisition regulations.

**Question 2:** How many sources do you plan to award a contract for this development phase?

**Answer 2:** We will award to only one source.

**Question 3:** Cut off wavelength is not indicated, please, could you mention it?

**Answer 3:** The cut off wavelength is 4.8 microns with high quantum efficiency.

**Question 4:** We are also interested in giving the group responsible for this effort an overview of our capabilities. Please let me know if such a meeting can be established.

**Answer 4:** We do not anticipate verbal presentations or advance overviews of capabilities.

**Question 5:** Is this a complete camera system (with signal processing electronics and optics) - seems consistent with title? ... Is the Navy looking to develop a integrated FPA / Dewar / cooler assembly for this application?

**Answer 5:** The solicitation less options will be for three 2048x512 fully functional arrays with electronics for control, calibration and readout and with closed-cycle refrigerator but no optics, processor or stabilization. A first option will be for an accelerated delivery schedule. A second option for two of the 2048x512 detector arrays will be to put them on 2056x512 silicon readout chips and package them in a suitable dewar, all components contractor developed and supplied. A third option will be to buy more 2048X512 arrays.

**Question 6:** Would the Navy consider a format other than 2560 x 1024 with a 25 micron pixel if it offered the potential for lower cost?

**Answer 6:** Pitch other than 25 microns would be considered, but we basically must have very good sensitivity and a very wide format array.

**Question 7:** Regarding the pitch, in order to reduce the total array size, we would recommend to select a smaller pitch than the 25  $\mu\text{m}$  mentioned in the Presolicitation notice. Would a 20 or 15 $\mu\text{m}$  pitch would be acceptable for this array?

**Answer 7:** Smaller detector size would reduce sensitivity and make already difficult optics more difficult. We will accept less than 25  $\mu\text{m}$  pitch only if we have to. 20  $\mu\text{m}$  would not be too bad. 15  $\mu\text{m}$  would probably be unworkable. The Performance Summary in the Statement of Work, paragraph 3.13, states: "detector pitch 25 $\mu\text{m}$ , or very close to this"

**Question 8:** I don't see how to download the synopsis off the NRL web page. All I see is a non-responsive one-liner listing:

Solicitation N00173-02-R-JW04 entitled 66--INFRARED SURVEILLANCE CAMERAS

**Answer 8:** Call it a "wide-aspect MWIR array". It is one of the components NRL will be using to put together a camera. This procurement does not include optics processor or stabilization. The link was inadvertently omitted.

**Question 9:** Is the Navy looking to develop a Focal Plane Array (FPA), consisting of a detector mated to a silicon readout chip? - (Text indicates that the mating of these components is an option.)

**Answer 9:** Yes

**Question 10:** Does the Navy have an existing 2560 x 512 readout chip?

**Answer 10:** No