(Form 3(2))

Proposal Form for Feasibility Study of Visual and Measurement Technology for Innovative Approach

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| 1. **Basic Principle of Proposed Technology** | |
| * The basic principle of proposed technology is described. | |
| **Contents to be checked.**  \*Please check the box if the following items are described.  \*Please make sure that you fill in all the items listed in <Basic points>, and items in <Additional points> if applicable. | **Check box** |
| **<Basic points>**   * The structure of the proposed technology and/or the basic principle of the system is specified. | ☐ |
| **<Additional points>**   * Considerations to achieve the target specifications | ☐ |
| 1. **Specification of Proposed Technology** | |
| * Specifications of the proposed technology are described. If the proposed technology does not cover all of the items, list the missing item. If the proposed technology does not meet the target specification, explain the reason and describe the achievable specification. | |
| **Contents to be checked.**  \*Please check the box if the following items are described.  \*Please make sure that you fill in all the items listed in <Basic points>, and items in <Additional points> if applicable. | **Check box** |
| **<Basic points>**   * Select the field of proposed technology. (visual or measurement technology) * Select the applicable process and area in Table 2-1. * Descriptions for following specifications are concrete and appropriate.   \*Shape and geometric envelope  \*Weight  \*Radiation resistance (dose rate and cumulative dose)  \*Operation temperature and humidity | ☐  ☐  ☐ |
| **<Additional points>**   * Descriptions for following specifications are concrete and appropriate.   [Common specification for visual and measurement technology]  \*Maximum operation duration  \*Waterproof and dust-proof performance (if it is operable under water, so state.)  \*Operation procedures/equipment structure (wire/wireless, operating place, remote from or close to the equipment, and system structure.)  \*Availability of image processing function including noise treatment (if available, specify the content.)  [Specification items only for visual technology]  \*Observation field  \*Monochrome/color  \*Resolution  \*Light-intensity (max and min)  \*Light-intensity controllability  \*Availability of pan tilt function  \*Pan tilt movable angle  \*Zoom function  \*Minimum curvature diameter (in the case of fiber scope, endoscope etc.)  [Specification items only for measurement technology]  \*Items to be measured (gamma ray, neutron, ultrasonic wave, laser, temperature, hydrogen etc.)  \*Measurement area (energy, effective dose or effective dose rate, flux, wavelength, angle and temperature)  \*Measurement distance  \*Measurement accuracy or resolution  \*Measurement time  \*Measurement view angle  \*Specify items required other than above.   * Describe that the proposed technology is superior to the prescribed target specifications, the values are feasible and it has high radiation resistance. * Describe in detail the main issues in developing the proposed technology and its solutions, which are deemed feasible. | ☐  ☐  ☐ |
| 1. **Existing Technology as a Basis of Proposed Technology** | |
| * A currently existing technology as a basis of proposed technology is described. | |
| **Contents to be checked.**  \*Please check the box if the following items are described.  \*Please make sure that you fill in all the items listed in <Basic points>, and items in <Additional points> if applicable. | **Check box** |
| **<Basic points>**   * Detail of the relations between existing technology as a basis of proposed technology and proposed technology. | ☐ |
| **<Additional points>**  　　　　　　　　　　　　　　－ |  |

\*Size of the column is allowed to be adjusted and figures and tables can be attached to it.