(3) Type of the procurement : Purchase

(4) Basic requirements of the procurement :

A Operating Department Management System 1 Set

a The system must be equipped with a function to automate the recording of perioperative vital signs and other patient information in the operating department of the hospital (including the ophthalmology outpatient operating room and other clinical departments that manage anesthesia outside the operating room).

b The system must be equipped with a function that allows manual recording of medical procedures and nursing care during the perioperative period.

c The system shall be able to receive necessary data by connecting to the hospital's existing biometric monitors, anesthesia-related equipment such as anesthesia machines, life support equipment such as artificial heart-lung machines, and examination equipment currently installed and connected to the operating department.

d This system shall be networked with various systems used in the hospital, including the existing HIS, operating room image support system, logistics system, sterilization system, and three-dimensional automated warehouse system. The system must be able to cope with any changes or upgrades to these systems.

e The system must be scalable to accommodate an increase in the number of operating rooms in the hospital (including an increase in the number of other departments that perform anesthesia management outside of operating rooms) and an increase in the number of devices and systems connected to this system.

f The system must be able to comprehensively support the hospital's surgical-related medical operations (surgical information entry, etc.) and operate the departmental operations without any problems, while providing overall security management functions and crisis management functions.

g The maintenance system shall be available 24 hours a day, 365 days a year.

h Expenses related to periodic inspections, as-needed inspections, and repairs shall be free of charge for one year after delivery of the system. Expenses for periodic and ad-hoc inspections for six years after one year of delivery of the system shall be included in this procurement. In addition, expenses for the next software update, hardware update, and server update shall be included.

i All data stored on the server currently in operation shall be able to be transferred to and used on the procured server without loss or damage to the integrity of the data.

j The system shall have the capacity to store the migrated data and the data that will be generated during the first 10 years after the migration, and shall be able to cope with server failure.

k The data stored in the system shall have functions for retrieval and statistical processing.

B Intensive Care Unit system 1 Set

a The Emergency／ICU Data Management System, hereinafter referred to as "the system," which is a component of the operating room and intensive care unit management system, should provide comprehensive support for critical care operations in the emergency room and intensive care unit of the hospital, and should be equipped with functions that allow the unimpeded performance of operations.

b The system should be linked to the patient monitoring system and be capable of storing biometric information.

c The system should be capable of receiving instructions from physicians and nurses and confirming the implementation of such instructions.

d The system should be capable of pre-input and batch input of physician orders to improve operational efficiency.

e The system should interface with the hospital information management system (HIS) to eliminate redundant data entry by sharing patient information and other data interoperability, thereby improving operational efficiency. The system shall also be able to interoperate with the existing surgical department system, NICU biometric information management system, medical affairs system, clinical laboratory system, logistics management system, and other systems in terms of data interoperability.

f The system should have the performance to protect patients' lives and not affect the creation of records even in the event of network or power failure or other problems.

g The system should be capable of storing, extracting, and reusing data with a granularity and availability that can withstand disclosure of medical information, external evaluation, medical education, and research.

h The system should be customizable by the user to add display items and encompass instructions, etc.

i Install the application of this system on the HIS terminal specified by the hospital.

j The system should be able to accommodate any changes or upgrades to the patient monitoring system or HIS, that is inclusive of this contract.

k The system should be scalable to accommodate increases in the volume of data handled by the system and in the number of devices and systems connected to the system.

l The system should be able to accommodate future expansion of critical care beds, that is inclusive of this contract.

m The system must be virtualized and installed on the hospital's existing virtual HIS server. If the system does not have the required performance, the virtual HIS server must be expanded to accommodate the new system.

n All data accumulated in the current system should be securely migrated.

o The system should seamlessly display the migrated data and the data generated by this system.

p The data storage disk should have the capacity to store the migrated data and the data that will be generated within ten years after the migration. In addition, even if the operation of the contracted system is terminated during that period, the server used should be managed in a manner encompassed by this contract.