(4) Basic requirements of the procurement :

A The request system is divided into three categories : ＡＡ : hospital information system server hardware, processing terminal, peripheral device, ＡＢ : network and remote terminal, ＡＣ : medical information system software, database processing connection system software and IoT device, and each procurement To do. The request system reduces the work burden on workers in the medical service of the University Hospital, reduces the amount of confirmation work and the work time, and is continuous for 24 hours. The system is self-reliant and self-repairing is strengthened to ensure safe and reliable hospital work. It is a system consisting of 5 elements : 3Ａ : Electronic medical record system, 3Ｂ : Department system, 3Ｃ : Medical system, 3Ｄ : Logistics management system, and 3Ｅ : Regional cooperation system that have the function of operating and managing. These 4 elements (3Ａ to 3Ｄ) share the information process, 1 : loss of work confirmation and human error increase due to re-input of the same information, order and process multiple times, 2 : increase of confirmation work loss due to insufficient database cooperation, 3 : The basic objective is to minimize work loss and increased medical risk due to unautomated medical safety items that can be logically judged. By defining the system policy deduced from the basic purpose, and in accordance with this, by following the design policy of the system network in the previous system update, and making the most of the existing infrastructure assets (network and purchase equipment, etc.), Document clearly that the system is designed so that medical safety and work burden can be reduced.

B The request system has the function of maintaining and managing the above four elements and the in-hospital and regional cooperation interfaces, user management inside and outside the hospital, access authorization and access history management, master table management, system log and application log management, etc. Have the function to perform the centralized.

C The request system must have records and display outputs that satisfy external evaluation and medical fee audits, and the evaluation records can be maintained by the data input in daily medical care.

D The request system is configured to store／extract／reuse data, server-server interworking with other systems, and on-demand server provision by clients, and all stored medical information is individualized for each patient. Must have functions that can be disclosed in chronological order.

E Patients' basic information, appointments (outpatients, hospitalization, other departments, other departments, etc.), tests (specimens, physiology, radiation, blood transfusion, pathology, etc.), Prescription (in-hospital／out-of-hospital, etc.), injection (outpatient／hospitalization, in-hospital dispensing, etc.), treatment (outpatient, ward treatment, radiation therapy, endoscopy／dialysis／physical therapy, etc.), blood transfusion, surgery, dental treatment, nursing care Includes patient transfer (relocation including transfer／change of department／change of primary doctor／transfer／overnight stay), meals, disease name based on ICD10 code and diagnosis group classification based on DPC code, cancer registration, clinical trial, etc. These orders are premised on operations based on execution inputs that hold attributes such as execution time, implementer, and place of execution, and have a list function in chronological order and a function to retain and display change history. Also, it shall have the function of registering and operating multiple daily orders that are standardized for each disease state as a clinical path.

F The electronic medical record system that manages medical records captures patient basic information, order information, examination information, image information, etc. from each subsystem, and inputs data of medical examination articles and vital signs of doctors／nurses, etc. And a function to save the paper records together with the converted file data, display them in chronological order, and print out as medical records for each patient.

G The medical affairs system must have the functions of importing order execution information and medical practice information required for same-day accounting from the medical care／nursing system, generating an invoice according to the medical treatment fee system, and generating a monthly electronic receipt. In addition, it must have the function of importing, accumulating, and submitting to the Ministry of Health, Labor and Welfare all the items of order information necessary for the management of this hospital, or generating a file that can be used for management analysis.

H The physical distribution management system must have the function of comprehensively managing the purchase, consumption, ordering, inventory, and inventory of all goods consumed for medical purposes at this hospital. In the management of consumption, order and implementation information should be fetched from the medical／nursing system and used as consumption information of the physical distribution management system together with patient／user／department information, and the inventory management for each department should be provided. Also, it must have the function of comprehensively collating and analyzing the data of logistics management system and medical system.

I The demand system is urgently required to protect medical care from serious threats such as ransomware and other medical data locks and destruction due to a rapid increase in remote connection and remote medical examination results, and to ensure business continuity. It must have the functions to prevent leakage of personal information from client terminals and unauthorized access, to constantly visualize and monitor network activities, automatically transfer security processing against threats, and automatically recover.

J The request system must be able to connect to the subsystems of each department and medical equipment that are operating by connecting to the existing system by TCP／IP via the in-hospital network and use the REST API. For communication between departmental systems, in order to rigorously reduce remodeling costs related to data linkage, HL7 FHIR or DICOM message format in which open source software support is in progress is used in principle, and the exception is e.g. JSON format, which is a structural language, to support this by providing the input／output function of.