F　The following functions are required as functions related to medical treatment. In addition to various medical record functions, it must have a management function for basic patient information, medical reception, appointments, clinical examinations, prescription, injection, treatment, blood transfusion, surgery, dental treatment, nursing care, Patient movement, meal, disease name based on ICD code, MHLW diagnosis group classification, clinical trial, function to manage medical documents, etc. It must have a record creation support function for the first medical treatment of an emergency and a medical examination support function using a smart device. In addition, various functions must premise on operation based on implementation input that retains attributes such as time stamp, implementer, implementation location, etc. required for safety management and accuracy control. The input contents must be listed in chronological order and have a change history. Satisfy all system requirements for electronic medical records in the "Guidelines for the Security Management of the Medical Information System". It also should be proposed an in-hospital calling function using an outpatient's individual smartphone or unique device linked to the reception patient list, and an outpatient support function linked to the order guidance display in each waiting room.

G　It must be possible to improve the efficiency of medical care by risk management such as medical safety management utilizing electronic medical record function and ordering function, and clinical path. User identification must have two-factor authentication including password and biometric authentication. A patient confirmation function using a patient's medical examination ticket (ID card), wristband, etc. must be provided. In addition, it must have a clinical decision support function that issue alerts and reminder information.

H　The system must have bedside work support functions such as injection, blood transfusion, patient authentication／implementation verification such as blood sampling, photo registration and medical record description by portable devices including smart devices.

I　The accounting subsystem must receive the order data in order to output claiming receipts (recipe and bill) and facilitate financial operations. The system must be able to respond to policy system change projects as needed.

J　The system must support the audit and teaching of the medical records to the clinical training of the medical student and post-graduate clinical training in the medical university hospital.

K　The system muste provide a data warehouse that can effectively utilize all the data accumulated in the request system and existing departmental systems for research, education, medical care, management, etc., and enable easy and quick search, extraction, and analysis. It must be possible to perform regular validation to confirm the quality such as data loss. As an output format, it must be possible to output information in accordance with the current standard regulations such as HL—7 CDA and JAHIS exchange regulations. It must also indicate a policy for complying with data exchange regulations such as the HL—7 FHIR standard. Furthermore, it must be able to also support anonymization, pseudonymization, and encryption as needed.

L　It must unify the operability of each terminal used in the system. For desktop-type and notebook-type general terminals, It must provide a comfortable work environment by proposing space-saving and lightweight devices while maintaining a constant display size.

M　The integrated management function of the whole system should be provided, and the utilization of virtualization technology for both server computers and client terminals shall be considered.

N　The system must unify management of master maintenance and unify management the order master connecting with each medical business data.

O　The existing subsystems and the medical devices can connect to the system through the hospital information network. The specifications required for the connection across the system must be provided.

P　For information exchange between systems, it must use general standards such as JPEG and MPEG2 in addition to DICOM, HL—7, IHE—J, MFER, etc., which are "standards in the field of health and medical information (standards of the MHLW)", the data transfer protocol adopts standards such as TCP／IP and UDP／IP, and it is an open system that can support multi-vendors and multi-platforms. As of January 2022, the HL—7 FHIR description specifications of various documents have been examined for the "standards in the field of health and medical information (standards of the MHLW)", and it is expected that new standards will be adopted in the future. Therefore, these response policies must be indicated in advance. If it is necessary to continue to use the current master and data exchange standard, indicate the reason in advance. In connection with this, present your company's approach to data health reforms promoted by the government and the response policy in the system maintenance phase after the start of operation. In addition, the content of the proposal must be presented concretely regarding the policy for dealing with "online medical care" and "electronic prescription" that are being materialized at the moment. In particular, for "electronic prescriptions", it must propose a method for reflecting the dispensing results in medical records.

Q　It must have a function to digitize medically generated paper documents or to capture images and waveform information from various medical devices including digital cameras for medical treatment. Furthermore, the data must be stored electronically in an appropriate format such as PDF and JPEG, which must be centrally managed in the same way as other medical information, enabling easy reference. In addition, it must have a medical record document integrated management function that enables unread and read management of various reports.

R　Network equipment required for the hospital network must be included in this procurement. Since the security measures of the information system need to be updated even after the introduction, in this proposal, not only the measures at the time of operation but also the method of updating the security measures during the system operation period must be proposed. In addition, it must be proposed a mechanism that enables integrated management and integrated monitoring of access routes in remote maintenance, including via VPC (Virtual Private Cloud). It must be proposed a case where remote maintenance of a contractor or remote work of hospital staff is performed via a virtual terminal in an external cloud. Assuming an environment that can also be used for clinical trial monitoring.