H　The required system must have clinical path management function based on order entry system which links closely with electronic medical record and can analyze variance. And it must provide function to show the management process in the chronological matrix table.

I　The required system must have function to allow medical clerks to do order entry which a physician indicated with requirement messages for physician's approval subsequently, and also have function to audit orders or medical records of trainees.

J　The accounting subsystem must have function to generate electronic claiming receipts of both type of DPC and fee for service after automatically taking all information related to various type of order in the subsystem. In addition, the system must have function to combine the data from accounting with the data of consumption of medical materials and resource.

K　The required system must provide environment of user-friendly operation by interface integrated and similar allocation of buttons on the screen and universal operation method. Moreover, it must have combine management system of terminals including mobile ones. In case of mobile ones, it must provide connection authentication and management functions for preserving high security as well as feasible environment for using BYOD (Bring-Your-Own-Device).

L　The required system must have ability to archive and retrieve the various types of files such as DICOM, PDF, JPEG, XML and so on. In addition, it must have function to digitize handwriting documents, and capture images from medical diagnostic modalities. It must have the converting function of handwriting documents to the electronic original documents in accordance with "Guidelines for safety management of hospital information systems, the latest edition". In addition, it must include the equivalent function to Document Archiving and Communication System (DACS).

M　Data transfer and storage in the system must be defined to the standardized methods such as DICOM, JPEG, MPEG2 for images, MFER for waveform, HL7 (2.4 or later) and／or XML for message with TCP／IP transmission, in compliance with feasible multi-vendors and multi-platforms. The system must adopt standards used in IHE-J as best.

N　All clinical data stored in database both of the required system and current existing system must be transferred and stored to the proper database system (DWH) for secondary use. The system must have function to convert patient identifying data to anonymous one when generating output XML files after retrieving from DWH.

O　The required system must have function to generate copy of a letter of introduction of patient, his／her diagnostic images and results of laboratory tests undertaken in our hospital into portable media such as CD-R／DVD-R with secure protection. And it must have function to make our proper staffs enable to execute order entry and audit from related medical affiliations using thin-client method. Furthermore, it must have a supporting function to register patients with regional disease registry database.

P　The required system must be nonstop and automatic 24 hour unattended operations with satisfactorily quick response and fail-safe function. And it must be constructed under the server-client system based on virtual server infrastructure. Moreover, it must have the redundant backup system with hot stand-by. In addition, it must have function transferring the medical data to off-site place for back-up in high-speed.

Q　The required system must have SPD (Supply Processing & distribution) function which capable to assessing consumed volume, the cost accounting used drugs, medical supplies, etc. in medical practice and moreover, to automatically order as necessary.

R　The required system must provide integrated master management system cooperated with order-entry system, the information systems need in departments, Data Warehouse (DWH), and other relevant systems based on the standardized codes such as HOT code, JLAC10 code and so on.

S　The required system must be enabled data warehouse (DWH) system to retrieve all clinical data accumulated in database for the purpose of secondary use. Moreover, it must transfer the data from HIS to DWH without overloading to HIS and unacceptable delay, and have efficient capacity for storing data. In addition, it must provide satisfactorily quick response in retrieving clinical data and user-friendly operative environment. Furthermore, it must have function to convert identification data of patients to anonymous one on retrieving from DWH.

T　The required system must have function to support clinical education program for medical students and trainees dispatched from outside. In particular, it must have function to restrict reference range of medical records which are allowed to refer for students or trainees. It must also have function to make students to writing medical records and ordering based on the premise of faculties' audit. In addition, it must have function to display of medical records which written by proper staffs and medical students parallely on the EMR system and to set display or non-display of student's writing. Furthermore, it must have function to store the records medical student wrote in the database separated from main EMR's database

U　The required system must provide thin-client environment by using virtualization technology of VDI (Virtual Desktop Infrastructure) or SBC (Server-Based Computing) with satisfactorily quick response and user-friendly operative interface. Moreover, it must be enable to print data to designated local printer and have roaming function.

V　The required system must have function to support staffs in the department of dental and oral health efficiently.

W　The vendor that provides the required system must provide comprehensive maintenance service (hardware, software, system-related documents) and educational and training environment for users' operation.

X　The vendor that provides the required system must offer technical and related information for continuing system running. All clinical data stored in current system must be transferred to the required system before new required system begins to work, and must be available in it.

Y　The vendor that provides the required system must offer documents needed for transferring data which are stored in the required system to other system in the future and allow the third party to use these information for transferring work.