(B) Education subsystem for ICT utilization must fulfill the following requirements.

(a) The subsystem must have sufficient physical environment to conduct various lectures, exercises and self-learning for information literacy education, programming education and ICT education.

(b) The subsystem must have capability which support constructing ICT environment for each lecture and e-learning contents creation by each lecturer. The subsystem must have management capability for distribution of lecture notes, and so on.

(c) The subsystem must have capability which support education and self-learning such as transmitting lecture videos on demand, supporting cooperation working among students and efficient information presentation with large displays, collecting opinions and requests of users.

(d) The subsystem must have capability which support lecture with multiple classrooms, distance lecture and multi-point collaboration.

(e) The subsystem must have required number of PCs with latest features and sufficient performance for lectures, exercises and self-learning. The subsystem must provide convenient features for lectures such as education environment with NetBoot clients and management of software licenses. The subsystem must have flexibility which can accept strict terminal operation required for CBT.

(f) The subsystem must have required number of servers with latest features and sufficient performance for lectures, exercises and self-learning.

(g) The subsystem must have required number of output devices such as printers with latest features and sufficient performance for lectures, exercises and self-learning. These devices must have functions such as on demand printing based on user authentication and accounting on a per-user basis. The subsystem must have FAX and full-color scanning functions in addition to printing function according to installation locations.

(h) The subsystem must provide latest software for lectures, exercises and self-learning. The subsystem must provide software which supports universal service and provide management function of software usage based on software license management.

(C) Education and research support subsystem must fulfill the following requirements.

(a) The subsystem must have capability which provides ICT resources (storage and CPU) to users exclusively according to user authentication. The subsystem must have sufficient capacity, performance and stability for concurrent access from a large number of users in a single or multiple lecture rooms or users within and without the campus. The subsystem must have capability which can allocate required amount of disk space to each specified group for file sharing.

(b) The subsystem must provide various network services such as DNS, e-mail, Netnews, WWW, teleconference, and so on.

(c) The subsystem must have capability of dynamic ICT resource allocation with blade servers, virtual computer systems, file servers, and so on.

(d) The subsystem must have sufficient information sockets and wireless LAN environment to which various network devices required by the system and users in the campus can access easily.

(e) The subsystem must have capability to which remote users can access safely and securely in cooperation with the campus network service (VPN access). For the remote access, the subsystem must have capability which supports resolving differences between shared PCs and personal PCs, PCs in the campus and PCs out of the campus.

(f) The subsystem must provide rental service of various kind of PCs for users and provide PCs for software rental service. The subsystem must have capability which maintain software environment of each PC and rental management. The subsystem must provide a configuration function for personal PCs which are introduced from the outside of the campus.

(D) ICT service management subsystem for education and research must fulfill the following requirements.

(a) The subsystem must have capability which efficiently supports handling, storing and analyzing inquiries from users and information dissemination to users.

(b) The subsystem must have efficient user management capability such as centralized management of usage status for all users of services, account management, and so on. The subsystem provide a crime-prevention system for users and a facility management system of rooms if necessary. In the user management, utilization of student cards, employee ID cards and mobile phones must be considered.

(c) The subsystem must have capability which is centralized monitoring and logging of each service, such as operation status of each systems, execution status of software, usage status of networks, and so on.

(d) The subsystem must have management and operation capability of variety of information which is required for operation of the education and research support subsystem.

(e) In the operation, management and maintenance of the system, laborsaving, electric power saving, space saving and energy saving must be achieved. The system supplier must sufficiently make consideration the law concerning the promotion of procurement of eco-friendly goods and services by the state and other entities (law on promoting green purchasing).

(f) All over the system, security, information protection, anti-virus and asset management must be sufficiently achieved. Furthermore, software which is required for protecting personal information must be provided.

(E) The system supplier must have maintenance organization which can handle system failures immediately for stable operation.

(F) The system supplier must make consideration of occurrence no additional cost such as additional purchase of software license throughout the period while the system is supplied.

(G) The system must fulfill the following performance requirements.

(a) When 200 students boot PCs simultaneously, all of the PCs must be usable within 20 seconds.

(b) System delay must be less than 5 seconds at the WEB access by 200 PCs.

(H) The system supplier must make consideration that failure of a specific PC does not disrupt the entire system.

(5) Time limit for the submission of the requested material : 5 : 00 PM 25, December, 2009

(6) Contact point for the notice : Tadashi Akashi, Procurement Section, Accounting Division, Okayama University, 1—1—1 Tsushimanaka Kitaku Okayama-shi 700—8530 Japan, TEL 086—251—7156