12 July 2002

Standard Guide for the Overall Greatest Value Evaluation Methodology
Concerning Procurement of Information Systems
(Understandings among related ministries and agencies concerned in procurement)

This standard guide has been compiled as a guide to the basic operational points concerning operation within the rules of the heads of each government ministry and agency after consultation with the Minister of Finance, to ensure that procurement entities contribute to improving the efficiency of administrative processing in cases where the overall-greatest-value evaluation method is used for procurement.

Section 1
Rules of the Heads of each Government Ministry and Agency (After Consultation with the Minister of Finance)

I. Scope of Application
The rules will be applied to the information systems as described below, of which the level of development can give great disadvantages to the people or cause great damage to the nation, and which cannot be developed only by the utilization of the existing software products and are recognized as such by the heads of government ministries and agencies.

- Super computers: services concerned with supercomputers which are limited to the development of system, the development of software and system integration services, and other services concerned with supercomputers or supercomputer products which are integrally developed with them.

- Computer services: computer services which are limited to the development of computer systems, the development of computer software and system integration services, and other computer services or computer products which are integrally developed with them.

- Telecommunications services: telecommunications services which are limited to system integration concerned with telecommunication products or the development of custom software, and other telecommunication services or products which are integrally developed with them.

- Medical technology services: medical technology services which are limited to design of software used solely for medical technology products, and other medical technology services or products which are integrally developed with them.

(Note) The description above will apply only to products and services covered by Revised Procedures to Introduce Supercomputers (Decision made on 19 April 1990 by the 13th Meeting of the Action Program Promotion Committee), Measures Related to Japanese Public Sector Procurements of Computer Products and Services (Decision made on 20 January 1992 by the 17th Meeting of the Action Program Promotion Committee), Measures on Japanese Public Sector Procurement of Telecommunications Products and Services (Decision made on 28 March 1994 by the 21th Meeting of the Action Program Promotion Committee) or Measures Related to Japanese Public Sector Procurement of Medical Technology Products and Services (Decision made on 28 March 1994 by the 21th Meeting of the Action Program Promotion Committee)

Information systems of which the level of development can give great disadvantages to the people or cause great damage to the nation

1　Information systems processing personal information and corporate information, etc. from outside the government

(1) Electronic submission system

(2) Electronic procurement system

(3) System associated with law enforcement

Patents, Customs Duties, Postal Services, Pension Services, Trade Control, Chemicals Control etc.

2　Information systems having direct impact on the results of administrative services

(1) Statistical processing system

(2) Scientific computation system

(3) Meteorological information processing system

(4) System associated with provision of policy information

etc.

3　Information system indispensable to administrative control

(1) Comprehensive document management system

(2) Personnel and payroll management system

(3) Policy evaluation system

etc.

4　Others

Scope of Application
1   The rules will be applied to procurements of the information systems as described above, of which the theoretical peak ratings are equal to or higher than 100 giga floating point operations per second (GFLOPS) (if "supercomputers" are procured), or of which the projected price exceeds 800,000 SDR (if "computer products and services" are procured), or exceeds 385,000 SDR or is equal to or higher than 100,000 SDR depending on the kind of procurement (if "medical technology products and services" or "telecommunications products and services" are procured).
2   In addition to 1., when procurement entities decided to make a bid application where the overall-greatest-value evaluation is suitable, a report is made to the Minister of Finance no less than thirty days prior to the date of the Notice of Procurement.

(Note) 1. In cases where this bidding method is applied, the exchange of SDR into Japanese currency is calculated based on the following method, which is based on the exchange amount publicly notified by the Minister of Finance, which in turn is based on Article 2 of the regulation on "Cabinet Order Stipulating Special Procedures for Government Procurement of Products or Specified Services" (Government Ordinance No. 300 of 18 November 1980)

Conversion of SDR into Japanese currency =

130,000 SDR in Japanese currency multiplied by OO/13

(Note) OO indicates the SDR in units of 10,000, which are the object of conversion.

2. With regard to adjustment of the amount converted to Japanese currency, 100,000 SDR or 385,000 SDR are rounded up to 1,000,000 yen and 800,000 SDR are rounded up to 10,000,000 yen.

II. Bidding Method

1   Upon application bidders must supply information on price, performance, function and technology and of the bidders that meet the following requirements, and through the overall-greatest-value method detailed in III, the bidder which receives the highest value will be the successful bidder.

(1) The bid price is within the scope of the limits of the projected price.

(2) The performance, function and technology concerning the bid (hereafter referred to as performance etc.,) fulfill the required minimum stipulations of articles that are viewed indispensable in the performance etc., required stipulations (referred to below as technical specifications), which are enumerated in the Notice of Procurement (including

relevant tender documentation, detailed below).

2   If there is more than one bidder who marked the highest value in 1, the successful bid will be decided by the drawing of lots.

III. The Overall Greatest Value Evaluation Method

1 Distribution of points of bid price is equal to that of performance etc.

2 The bid price will be evaluated in the way as follows: the points of bid price will be obtained by dividing the bid price by the projected price, subtracting the calculated value from one, and multiplying the calculated value by distribution of points of bid price.

3   The evaluation method of performance etc., is as detailed hereunder.
   (1) The technical specifications, which are the object of evaluation, have been designed as evaluation articles from the viewpoint of administrative and business needs to respond to the pertinent procurement aims and contents. They are divided into those articles viewed as essential and other articles.
   (2) With regard to essential articles, the minimum requirements should be shown article by article and the bids will fail if they are not met. If they are met, basic points will be designated and additional points will be given to specifications that surpass the minimum requirements.
   (3) Articles other than those considered essential will be designated additional points by article upon evaluation.
   (4) The points in each of the evaluation articles are decided by their necessity and importance.

4   The overall evaluation relating to price and performance etc., results in a value which is attained by adding the tendered bid price concerned to the total points for the performance etc., of the evaluation categories in the bidders' applications.

IV. Others

   The rules will be applied to procurement where the issuance of the notice of invitation to is made after 1 August 2002. Furthermore, the rules can be applied to procurement where the issuance of the notice of invitation to tender is made between 12 July 2002 and 31 July 2002, with providing notification to the Minister of Finance prior to the day before the issuance of the notice of invitation to tender

   In cases where this bidding method is applied, it should be made clear in the notice of invitation to tender that the determination of the successful bidder will be made through the greatest overall greatest value method and the characteristics of this method.

Section 2 Guidelines Concerning Overall Greatest Value Evaluation

I. General Matters

1   The compilation of criteria for overall greatest value evaluation, while referring to the data and comments gained through such methods as the submission of comments, is based on "the Measures" and is designed to ensure transparency and fairness.

2   With regard to technical requirements and criteria for the award of contracts, tender documentation should be clear and specific, and to this end should be specified in a notice of invitation to tender.

3   In cases where technical requirements and criteria pertaining to bidding evaluation are stipulated in documents relating to specifications (hereafter specification documents) and documents relating to overall evaluation (hereafter overall evaluation standards), these are delivered immediately as part of the tender documentation, in response to requests from suppliers.

II. Technical Requirements

1   Technical requirements are divided into those that are essential and other stipulations, and are clearly specified in the tender documentation (including specification documentation).

2   Technical requirements and criteria for the award of contracts should be specified in the tender documentation, and that notion should be made in the notice of invitation .

3   Essential requirements are limited to those necessary minimum contents needed in practice by the procuring entities.

4   Requirements other than those considered essential are limited to those articles for evaluation as laid down in the overall evaluation criteria and those articles not subject to evaluation are not listed.

5   In the case when, as the results of the data and comments gained from the procedure of the submission of comments, etc., there are performance-related proposals through different methods from suppliers, and when any of the proposals could be adopted, the technical requirements are established not to exclude any specific supplier and consideration is duly given so that it is possible each suppliers performance can be evaluated.

6　Technical requirements which can be quantified (performance which can be quantified), are in principle specified as figures, and when it is inevitable that they be specified qualitatively , they are recorded to the most specific and detailed extent possible.

III. Evaluation Criteria

1　Concerning criteria pertaining to bidding, evaluation articles, distribution of points (points of bid price and performance etc.) and other articles necessary to evaluation are made clear in the tender documentation (including the overall evaluation criteria).

2　Evaluation articles and distribution of points of performance etc. are based upon their necessity and importance upon procurement and are established in a suitable fashion while referring to the performance etc., of information system that will be practically possible to introduce and have been supplied through the procedure of the submission of comments, etc.

3　In light of importance and necessity for procurement, items for which it is pointless to surpass the scope of necessary evaluation are excluded from evaluation.

4　Evaluation articles of performance etc. should be made as detailed and as specific as possible for the contents of evaluation. In this case, with regard to those items which can be shown in a scope (maximum figure) which is evaluated quantitatively, this should be notified in each evaluation article.

5　Evaluation articles of performance etc. are based on the necessity for procurement and articles are chosen from those listed in the attachment.
　In cases where specific evaluation articles are established, the articles are placed in the contract pertaining to procurement and the contents limited to those that can be secured, with those articles that cannot be secured not being subject to evaluation articles.

IV. Evaluation

1　Bidding evaluation shall be based on the tender documentation (including specifications and overall evaluation criteria) and performance etc., which is not specified in the tender documentation will not be evaluated.

2　The evaluation of performance etc., will be undertaken appropriately in a just and fair examination by the procurement entities.
　Furthermore, the investigation undertaken will be of a common criteria for all bidders and there will be no specific methods adopted for evaluating specific bidders.

3   With regard to essential articles of evaluation, it will be judged whether or not the minimum requirements as specified in the essential stipulations in the tender documentation (including specifications) are fulfilled and then passed or failed.

   With regard to those tenders that pass, points will be given, based on the tender documentation (including the overall evaluation standards).

4   With regard to articles of evaluation other than those considered essential, it will be judged whether or not the non-essential requirements in the tender documentation (including specification documents) are fulfilled. If the requirements are met, points will be awarded based on the tender documentation (including the overall evaluation standards).

5   Evaluations pertaining to qualitative evaluation articles shall be undertaken with due rationality.

6   Concerning evaluation of performance etc., in the case where tests are enforced for tendered information system, in order to ensure that the process is undertaken in a fair and non-discriminatory manner, contents and methods of the tests concerned are clarified in the tender documentation.

V. Others
1   Recording of a Successful Bid etc., and Information Provision
   (1) With regard to a result where performance etc., evaluation relate to the bid application in the overall evaluation or in the case of a successful bid, recording shall be made immediately. In particular, with regard to the results of inspection of technical requirements, each evaluation article and their outcome and the reasons for outcomes shall be recorded and appropriate responses to complaints, etc., from suppliers shall be made.
   (2) Trade name or corporate name of bidders and a successful bidder, points of bid price and performance etc. and projected price will be promptly published after the conclusion of the contract. However, projected price will be published only when there is no risk that projected price will be analogized in the subsequent contracts.

2   Ensuring Evaluation Contents
   (1) With regard to performance etc., evaluated in the overall evaluation, all details of these shall be described in contracts to ensure they are carried out.
   (2) For the inspection on the supply time for products etc., it shall be ensured that the evaluated contents are met.

[Attachment]

(1) Articles relating to Performance and Function, etc.

○Processing Capability

(i) Equipment performance factors
   a) Capability of computer processing devices (general processing capability)
      Articles of evaluation are established to evaluate whether the procured system can perform its assigned task. As a rule international standards shall be adopted.
   b) Access time to external memory device and transmission speed
      In the case where a system's processing capability is controlled by external memory device performance and processing methods for systems which use a virtual memory device or database management system, evaluation articles are established which sufficiently reflect the above conditions for access time and speed.
   c) Capability regarding communications
      Articles of evaluation are established for the number of lines that can be accommodated, the speed of support telecommunications and communication interface etc.
   d) Channel and Bus Capability
      Articles of evaluation are established for channel and bus numbers, transmission speed and number of connection devices.
   e) Other factors of equipment performance
      Articles of evaluation are established accordingly for performance factors of peripheral equipment and others in line with the characteristics of the system for procurement.

(ii) System performance value
   Responding to system characteristics, etc., articles of evaluation are established for performance values such as those based on standard models, performance values based on special model simulation and performance values of processing capability values based on benchmarks.

○Capacity and Scale

(i) Capacity of Main Memory Device
   Articles of evaluation are established for capacity for the whole of the main memory device, with due consideration given to the utilization pattern of the main memory device for operating systems (OS), middleware and user applications.

(ii) Capacity of Direct Access Memory Devices

Articles of evaluation are established for capacity etc., which takes into consideration processing efficiency, safety and capability to maintain functioning of the procured system.

(iii) Software Scale

Articles of evaluation are established in a certain scope for software scale of the procured system.

(iv) Data Capacity

Articles of evaluation are established for the largest possible data processing capacity, in order that processing capabilities can be guaranteed for data capacity as used by the procured system.

○Environmental Conditions

(i) Electric Facilities

Due consideration is made of the various factors with decide electric facility scale and method of supply (use of industrial power, AVR or CVCF), such as equipment standard power, voltage and possible scope of frequency modulation, and articles of evaluation are established for the specifications and performance of electric facilities for equipment.

Depending on the equipment there are cases where comparing the standard power use, the initial load when switching on power is very large, and it is therefore necessary to establish articles of evaluations to take this point into consideration.

(ii) Air Conditions

Articles of evaluation are established for air conditioning facilities.

(iii) Facility Conditions

Factors such as equipment area and weight which are factors deciding the scale and strength of construction facilities have articles of evaluation established for such equipment facility requirements.

In addition, articles of evaluation are established for quake resistance, fire-fighting installation and security of construction facilities,

(iv) Harmonizing with the Environment

With regard to equipment set-up in general offices, articles of evaluation are established for offices designs, noise levels and vibration that harmonize with the environment.

(v) Development Areas

In cases where places are established for development of systems, articles of evaluation

are established for each condition depending on the form of procurement.

(vi) Development Equipment

Articles of evaluation are established for equipment used in development. The place of development is also of concern, but articles of evaluation are established as to whether the equipment can be used for the development of the procured system.

○Function

(i) Hardware Equipment Function

Hardware equipment is based on function, and articles of evaluation established for each constituent factor. In addition, articles of evaluation are established for equipment obtaining certification such as ISO15408 etc.
   a) Central processing device
   b) External memory device
   c) Input/output device (including special functions)
   d) Terminal devices
   e) Client Server Work Station
   f) Other

(ii) Software Function

Software functions are divided into operating systems and function program products and articles of evaluation established for each of these.

(iii) Communications Function

Articles of evaluation are established for telecommunications protocols and types of support lines (including LAN/WAN)

(iv) System Function

Articles of evaluation are established for function of integral system organically combining hardware, software and network.

○Standardization

(i) Standardization of Input/Output Media

For methods of recording of information expressions of input/output media (magnetic tape, magnetic disc, optical disk etc.) and presentation of these media, articles of evaluation are established in order that the above conform to JIS standards or ISO standards etc.

(ii) Standardization of Methods of System Development

   As for technical methods of development and tools used for development, with due consideration given to the system's life-cycle articles of evaluation are established.

(iii) Standardization of language processing programs

   Articles of evaluation are established in accordance with JIS or ISO standard conformity for the describing format of language programs such as FORTRAN, COBOL, C etc., and for the describing format of input/output data and the rules of grammar.

(iv) Communications Function

   Articles of evaluation are established for communications protocols to conform to JIS or ISO standards. As there are sections of ISO standards that overlap with standards based on ITU recommendations and since there is also a time lag between recommendations and standardization being established, in analysis ITU recommendations should also be the object of consideration.

(v) Function of Intersystem Connection

   Articles of evaluation are established in accordance with international standard and domestic standard for system interoperability (data compatibility, protocol etc.) with consideration for operating system.

(vi) Other Standardization

   Articles of evaluation are established for conformity to international and domestic standards.

○Transferability

(i) Sustainability of Business

   Articles of evaluation are established for sustainability and guarantees of existing business.

(ii) Sustainable Usage of Data, Etc.

   Articles of evaluation are established for guarantee of the sustainable usage of data etc., and in cases where there is a risk etc., of whether or not conversion is necessary.

(iii) Sustainable System Usage

   Articles of evaluation are established for guarantees for sustainable operation of existing systems and in cases where there is a risk etc., of whether program conversion is necessary or not.

(iv) Transfer Conditions

 Regarding observance of transfer conditions, articles of evaluation are established for quality etc., during and after the transfer period.

(v) Operating Sustainability

 With regard to operating sustainability of existing systems, articles of evaluation are established for cases in which changes occur.

○Others

(2) Articles Concerning Reliability and Flexibility, etc.

○Performance Reliability

(i) Reliability Indicators
 a) Mean Time Between Failure (MTBF)
  MTBF is the mean time between one failure and another. Articles of evaluation are established for MTBF regarding equipment which forms the basis of a system.
 b) Mean Time to Repair (MTTR)
  MTTR is the mean time taken from system failure to system repair. Articles of evaluation are established for MTTR regarding equipment which forms the basis of a system.
 c) Availability
  Availability is the ratio of system work to be carried out in unit hours. Articles of evaluation are established for this.
 d) Mean Time Between Unscheduled Interruption (MTBUI)
  Articles of evaluation are established for time until systems are turned off, including hardware and software.

(ii) Technology Reliability
 a) Technology Reliability at Equipment Level
  Articles of evaluation are established for damage detection functions, damage repair functions and damage assessment functions etc., such as error detection, self correction, re-booting, and damage informing at equipment level.
 b) System Building Technology
  Articles of evaluation are established for the improvement of system reliability through i) the main frame system; ii) the input/output system; iii) the telecommunications system;

and iv) the composition of these systems integrated.

(iii) Measure to Improve the Quality of User Programs

Articles of evaluation are established for each group of functions, etc., for the purpose of improving the quality of user programs and supporting higher reliability.

a) Function of development support
b) Function of test support
c) Function of software management

(iv) Measures to Improve Operation Reliability

Articles of evaluation are established regarding measures for faulty operation in central equipment operations.

○Operational Performance

(i) Operational Performance for Hardware

Articles of evaluation are established for operational performance for identical models for the main equipment of calculation systems.

(ii) Operational Results for Software

Articles of Evaluation are established regarding the operational results of operating systems and each software.

○Security

In accordance with security policies of each ministry and agency, articles of evaluation are established for security of procured information systems according to their objectives.

(i) Comprehension of Risks

Articles of evaluation are established for clarifying dangers which require being anticipated and comprehending risks corresponding to the value of information systems.

(ii) Definition of Security Requirement

Articles of evaluation are established for defining security requirement which information systems should have corresponding to the extent of comprehended risks.

a) Network security requirement
b) System security requirement
c) Application security requirement
d) Operation security requirement

e) Data security requirement

f) Requirement for physical surroundings security of system installation

g) Personal information protection requirement

(iii) Establishment of Security Function System

Articles of evaluation are established for security function system to realize defined security requirements.

a) Function of protecting confidentiality of important information

b) Function of preventing and detecting tampering to ptotect integrity of systems and data

c) Function of identifying and authenticating users

d) Access control function

e) Non-repudiation function

f) Function of monitoring and detecting hacking and denial of service

g) Function of preventing harmful software (computer viruses etc.)

h) Security auditing function

(iv) Security Operation Process

Articles of evaluation are established for a set of processes regarding security operation.

a) Vulnerability verification

b) Monitoring, detection and prevention of hacking

c) Harmful software exclusion

d) Security problem management

e) Security hole and incident response

f) User administration

g) Registration, cancellation and password management

h) Encryption key control process

(v) Functions for Protection from Irregular Access

As measures to avoid the intentional leaking and destruction of information, since it is necessary to limit access, articles of evaluation are established regarding protective functions.

(vi) Protective Functions Against Destruction

Articles of evaluation are established regarding conditions for all protective measures against information destruction.

(vii) Security evaluation

Articles of evaluation are established for the security based on "Procurement Guidebook Using ISO/IEC15408".

○Others

(3) Evaluation of Expandability, Flexibility etc.

○Expandability

(i) Hardware Expandability
　　Articles of evaluation are established for factors including system expandability, such as improvement of processing capability, increase in file capacity and increase of direct access terminals.

(ii) Software Expandability
　　Articles of evaluation are established regarding expandability of a) processing format b) networks c) operating systems, after system development.
　a) Expandability of processing format
　　　Expandability upon change to processing format
　b) Network expandability
　c) Expandability of operating system
　d) Ease of introduction of packaging software

○Compatibility

(i) Compatibility of Input/Output Media
　　Articles of evaluation are established regarding the compatibility of equipment of input/output media such as magnetic tapes, floppy discs etc., compatibility of information recording methods and compatibility of internal codes.

(ii) Program Compatibility
　　Articles of evaluation are established for compatibility at the source program level and the executable program, and compatibility or ease of use of screen or tag creation aid tools.

(ii)Compatibility of Job Control Language
　　Articles of evaluation are established for compatibility and ease of use of job control language.

○Ease of Operation

Articles of evaluation are established regarding for system operation status monitoring and network operation status monitoring functions.

○Automation Measures

(i) Operation Automation Function
Articles of evaluation are established for functions, etc., aimed at the automation and energy saving functions of system operation.

(ii) Operation Automation Function
Articles of evaluation are established for the automation and energy saving function, etc., of input and output operation devices.

○Others

(4) Articles concerning maintenance and support, etc.

○Hardware maintenance

(i) Methods concerning maintenance systems
Articles of evaluation are established for such systems as the preventive maintenance system, response systems in case of trouble, and procurement systems for replacement components. Articles of evaluation are also established for those systems that are being developed at a local level regarding local systems such as maintenance bases, time to rush to the site etc.

(ii) Maintenance Technology
Articles of evaluation are established for self-assessing trouble technology, long-distance damage examination technology as well as automatic restorative technology and all kinds of maintenance technology to ensure systematic and effective trouble detection, assessment and restoration.

○Software Support

Articles of evaluation are established for software support systems and the support range, etc.

(i) Range of Support

Articles of evaluation are established regarding the range of support of software support.

(ii) Operation and maintenance system

Articles of evaluation are established regarding software operation and maintenance systems, needed personnel and manhours corresponding to the scale and kind of software.

○Ease of Maintenance

(i) Function Composition

Articles of evaluation are established regarding ease of maintenance by ensuring that plans for function composition and function division are submitted.

(ii) Documents

Articles of evaluation are established regarding the usability etc., in subsequent function expansion of the documents that are necessary for maintenance by ensuring that such types and their documents contents are submitted.

(iii) Software Management Tools

Articles of evaluation are established regarding whether or not software management tools are used and tool contents, etc.

○Documentary Support

Articles of evaluation are established for documentary support, such as whether it is provided, the support media, the time of provision and contents, etc.

○User Education

Articles of evaluation are established for the system, subject, timing and methods, etc., of education of users.

○Restrictive Conditions

Articles of evaluation are established for restrictive conditions that arise against the procurement side through the procurement concerned.

○Others

(5) Articles relating to technical capabilities of bidders and capability of bidders for development and supply etc.

〇 Comprehension, Concreteness of Proposals etc.

Articles of evaluation are established for bidders' comprehension, concreteness of their proposals etc. corresponding to procured information systems.

(i) Comprehension of Business

Articles of evaluation are established for knowledge and experiences etc. of applicable business. Articles of evaluation are also established for knowledge of related laws and regulations on which the business is based and knowledge, experiences etc. regarding related business.

(ii) Concreteness of Proposals

Articles of evaluation are established for concreteness of functions, performances, adopted development methods etc. of information system described in proposals.

(iii) Suitability of Proposals

Articles of evaluation are established for suitability of development periods, schedules, adopted development methods etc. regarding proposals.

(iv) Accuracy of Processing etc.

Articles of evaluation are established for a technical level of accuracy, legality, promptness etc. of processing at an operational level..

〇Development Methodology

Articles of evaluation are established for the existence and suitability of methods of development methodology that are used for supply by bidders. In addition, articles of evaluation are established for concepts, etc., relating to function composition and documents in development methodologies.

〇Project Management

Articles of evaluation are established for the suitability of project management.
・Project personnel level (these are ranked through the Information-Technology Engineers Examination which is a basis for evaluation)
・Scheme
・Personnel plans

・Schedule

　　　・Project management methods

　　　・Project management results

○Techniques/Tools

　Articles of evaluation are established concerning the existence and suitability of application plans for tools by process and function.

○Existence of an Environment for Development

　Articles of evaluation are established concerning the status, etc., of facilities for computers, in cases where all or part of the development process are implemented through supplier side computers.

○Development Results

　Articles of evaluation are established for the development results of similar systems, similar scales (manhours/expenses), similar development methods and similar schedules.
　　　・Hardware
　　　・Software
　　　・Network
　　　・System integration

○Conversion Results

　Articles of evaluation are established for results of system conversion from a system equal to the existing system..

○Reliability of Bidders

(i) Quality Control
　Articles of evaluation are established concerning quality control.
　　- Quality control policies
　　- Organization
　　- Responsibility and competence
　　- Quality control activities
　　- Quality control tools

(ii) Official Qualifications

　　Articles of evaluation are established for the acquisition of official qualifications as shown below (organizational and personnel) and efforts towards acquiring such qualifications.

　　・Information-Technology Engineers Examination
　　・Professional Engineer (Information Engineering Division)
　　・Small and Medium Enterprise Management Consultant (Information Processing)
　　・PMP (Project Management Professional)
　　・ISMS etc.
　　・ISO9000
　　・ISO14000
　　・Others

(iii) Security

　　Articles of evaluation are established concerning suitability of security systems.

(iv) Employee Education

　　Articles of evaluation are established for organization, schemes, and results pertaining to employee education, etc.

○Software Process Improvement (SPI)

　　Articles of evaluation are established for results of SPI activities etc. based on CMMISM, ISO9000 etc.

○Others

(6) Articles regarding Life Cycle Cost

　　Articles of evaluation are established for life cycle cost of establishment of information system.

(i) Evaluation of Unit Value of Life Cycle Cost

　　Articles of evaluation are established for unit value of life cycle cost below.
　　a) Man-month unit value (each stage of procurement process)
　　b) Monthly cost of operation
　　c) Monthly cost of maintenance
　　d) Monthly cost of software license
　　e) Others

(ii) Others

(7) Others

(i) In addition to the above, other appropriate evaluation articles shall be established as the occasion arises.

(ii) For the compilation of specifications relevant to software development, the software development process and process contents shall conform to clearly defined standards based on the ISO/IEC Software Life-Cycle Process (SLCP).