⑵　提供先（連絡窓口）　〒102―8666 東京都千代田区四番町５－３　国立研究開発法人科学技術振興機構　契約部　契約業務課　担当　長瀬美奈子　電話03―5214―7996　ＦＡＸ 03―5214―8433

Ｅメール　keiyakuk@jst.go.jp

⑶　資料の提供期限　平成28年８月２日15時00分（郵送の場合は必着のこと）

⑷　資料の提供期限

ⅰ）資料等を提供する際には、組織の代表者名で、本件招請に対する応募の意思を明確に示す書面で提供すること。

ⅱ）提供資料等に関する照会先を明記すること。

ⅲ）提供資料等は日本語で６部提出すること。

⑸　追加情報の照会先

追加情報の照会又は本説明書に関する問い合わせは、下記の期限までに、日本語文書により、電子メールにて、上記２⑵の「連絡窓口」へ行うこと。

①　期限　平成28年７月13日17時00分

３　説明書の交付　本公表に基づき応募する供給者に対して調達説明書を交付する。

⑴　交付期間　平成28年６月17日から平成28年８月２日まで

⑵　交付場所　本公表日から下記ＵＲＬよりダウンロード可能。窓口交付の場合は上記２⑵にて交付する。

ＵＲＬ：http://choutatsu.jst.go.jp/

４　説明会の開催　本公表に基づく導入説明会を開催する。

⑴　開催日時　平成28年７月１日14時00分

⑵　開催場所　〒102―8666 東京都千代田区四番町５－３　国立研究開発法人科学技術振興機構　住宅棟１階会議室（導入説明会へ参加を希望する者は、平成28年６月29日17時00分までに、上記２⑵の連絡窓口宛にＦＡＸにより申込を行うこと。）

５　その他　提案各社に対し、必要に応じ、本提案資料の記載内容等についてヒアリング等を行う場合がある。なお、本公表内容は予定であり、変更することがあり得る。

6　Summary

⑴　Classification of the services to be procured : 16, 71, 27

⑵　Nature and quantity of services to be required : Renewal of Common IT Infrastracture. 1 set

⑶　Type of the procurement : Rent

⑷　Basic requirements of the procurement :

A）“Common IT Infrastructure” is a system infrastructure (private cloud) which was built in order to consolidate and manage business systems centrally in Japan Science and Technology Agency (JST). It contributes to system standardization, promotes the efficiency of the developments, managements and operations of systems. Common IT infrastructure is intended to be positioned as a basis to maintain the IT governance in JST. We are using Cloudstack as cloud OS, XenServer (free version) as hypervisor, Zabbix as tool for operation management. Present Common IT infrastructure has been operated since April 2014, and the product support will be terminated in March 2019. Therefore, we carry out the renewal of a Common IT infrastructure.

B）New common IT infrastructure must have capacity to mount 90 systems (about 500 virtual servers) on its virtualized environment. Most of these systems provides a variety of information and services to the public on the internet, and several are mission-critical systems used inside JST. We suppose that new common IT infrastructure consists of the following elements, as a form of hybrid cloud using on-premise private cloud environment and public cloud services.

①　Server group constituting virtual environments. The total number of physical CPU cores is about 1728 cores, the total number of physical memory is about 12288GB.

②　Storage group constituting virtual environments. Total effective capacity of storage is about 1000TB (primary + secondary storage).

③　Software constituting virtual environments.

④　Management servers to manage the virtual environments. Those functions is to create, change, and delete Virtual servers and networks, operation monitoring, resource management, configuration management, software version management, log management, NTP, DNS, SMTP server, and so on, required to operate and manage the cloud environment.

⑤　Network equipments which connect server group to storage group that constitute virtual environments, and the network between each servers.

⑥　Server group for the file server, a mission-critical system of JST. Total effective capacity is about 500TB. The number of users is about 1800.

⑦　Environment for planned backup for the data on the virtual servers and file server (backup server, storage, software). The effective capacity is about 1000TB.

⑧　Security equipments in order to defend cyberattacks and to collect logs, such as IPS, FW, WAF, or services having the same functions, and load balancer. It is desirable that work load in operation is as little as possible.

⑨　BCP function : For saving the critical data, having the ability to complement in the event of a disaster.

⑩　DR function : Even in the event of the disaster, the server of JST home page and file server continue to run with normal functions at the same levels.

C）Servers and Storage, network equipments must have sufficient performances for stable operation of the systems mounted on the virtual environment.

D）Basically, software constitutes virtual environment (cloud OS and hypervisor) must be stable commercial version and used widely. But we expect multi-hypervisor environment which consists of commercial version and XenServer (free version).

E）It is possible to add CPU and memory and storage resources. Further, for the partial migration during replacement, it is possible to add resources by the physical server unit and the cluster unit or POD unit.

F）It is possible to move virtual servers on present virtual environments (XenServer) to new common IT infrastructure environment by using some tools.

G）For small-scale systems, it has also been supposed to use some public cloud environments. It is supposed that about 90 web servers might be mounted on public cloud. However, resource usage varies depending on requirement.

H）Having a function for integrated management of hybrid cloud environments.

I）Server rack : about 7～10.

J）Total power consumption of all the equipments is less than or equal to about 70kW.

K）It is possible to receive manufacturer’s official support service and maintenance service for each equipments and softwares.

L）Each equipment can be used at least seven years with maintenance contract.

M）Unitary management can be carried out by one vender. For example, device firmware version up, software patches constituting the virtual environment, operational status, resources management, configuration management, dealing with hardware failure.

⑸　Time limit for the submission of the requested material : 15 : 00, 2 August 2016

⑹　Contact point for the notice : Minako Nagase, Contract Division, Department of Contract, JST, 5―3, Yonban-cho, Chiyoda-ku, Tokyo 102―8666 TEL 03―5214―7996 FAX 03―5214―8433