

## &lt; Score Sheet/採点表 &gt;

Purchase of 5th Generation HPC Cluster (第5世代HPCクラスター一式の購入)

Judge/採点者 : \_\_\_\_\_

Applicant (Company name) / 申請者 (会社名) : \_\_\_\_\_

No.	Evaluation Items 評価項目	Evaluation Index 評価指標	Score Distribution 配点	Scores 採点
1	Mandatory Requirement 必須項目	Does the proposal is comprehensive and include all the requirements stated in the specification, especially the ones in section 4?	Yes/No	-
		Have the integrators, hardware manufacturers, and vendors demonstrated evidence of edibility in deploying an HPC system at this scale?	Yes/No	-
		Has the vendor provided all the required quotes?	Yes/No	-
		Does the storage system meet or exceed all the requirements in 7?	Yes/No	-
		Does the storage monitoring solution meet the requirements in 7-2?	Yes/No	-
		Are the SPEC performance values provided by the vendor consistent?	Yes/No	-
		Does the acceptance testing procedure have all the details about the test to be performed?	Yes/No	-
		Does the proposed solution meet all the specific requirements of the specification?	Yes/No	-
		Does the proposed solution meet the OIST power requirement?	Yes/No	-
		Does the proposed full cooling solution meet the requirements in 10-1?	Yes/No	-
		Does the maintenance and support service for the storage meet OIST requirements (refer to last paragraph of section 5)?	Yes/No	-
		Do the integrator, hardware manufactures and vendors have the capabilities to provide full hardware support for the HPC cluster and system support for the storage?	Yes/No	-
		Is the provided delivery schedule, deliverables, and acceptance test plan consistent and comprehensive?	Yes/No	-
2	Comparative Performance Metric Based on Core Count and PUE コア数およびPUEに基づく比較性能評価指標	Main performance criterion of the vendor x is based on the proposed total number of cores $N_x$ (from 8-1) in the system, the proposed power usage effectiveness PUE <sub>x</sub> of the system, and the proposed number of cores of the other competing vendors a, b, ..., according to the formula below  $80 \cdot \frac{N_x}{PUE_x \cdot \max(N_a, N_b, \dots, N_x, \dots)}$	80	
3	PUE Contribution PUE (電力使用効率) の寄与度	Power usage effectiveness contribution using the formula below  $5 \cdot e^{1-PUE_x}$	5	
4	Direct Liquid Cooling (DLC) Coverage Factor 直接液冷 (DLC) 適用率係数	Direct liquid cooling coverage factor (% of server/chassis components cooled by DLC) · 0.05	5	
5	FLOPS-per-Watt (Px) Contribution FLOPS/W (Px) 寄与度	FLOPS per Watt Px contribution of the vendor x  $10 \cdot \frac{P_x}{\max(P_a, P_b, \dots, P_x, \dots)}$ where, $P_x = \frac{\text{Peak FLOPS from HPL}}{\text{Peak Power usage}}$	10	
Total Score 合計			100	

※Disqualified if you do not meet the Mandatory requirement.

※必須項目を満たさない場合は失格とする