

TECHNICAL SPECIFICATION FOR HIGH PERFORMANCE WORKSTATION

S.NO	SPECIFICATION	COMPLIED /NOT COMPLIED	CATALOGUE Page No.
1	Processor(s): 1 x Intel® Xeon, 2.20 GHz, 35.75 MB, No. of Cores= 24 or better to be included		
2	Performance Benchmark: Spec_fp_2017_rate_base- score>=100. Spec_Int_2017_rate_base- score>=110. Server OEM must have listed SPEC benchmark score as aforementioned in www.spec.org with the same server model or a model from the similar series, with same CPU configuration as quoted in the bid. (Benchmark Score acceptable with Single /Dual CPU Population Configuration) High Performance Linpack peak performance score per socket must be >=1.6TFlops		
3	Chipset: Intel® C600 series Chipset or better to be included		
4	RAM: 64GB DDR4-2666 ECC RDIMM/LRDIMM (Max 256GB capability, at least 12 DIMMs or better) required		
5	RAID: SATA3 controller with RAID 0, 1, & 10 required		
6	HDD/SDD: 1 x 4000 GB 3.5" SATA 7200 RPM HDD 1 x 500GB based Solid State Drive of Capacity to be included		
7	HDD Bays: 4 HDD/SSD Drive bays supporting HDD and SSDs should be present		
8	NVME Bays: 1 x Nvme bays are required via On Board.		
9	GPU Card: 1 x Nvidia Quadro Series Professional Graphics with dedicated 16GB Memory, RTX A4000, or better required		
10	NIC: 2 x 1G LAN ports or higher through AOC or through on board controller and WiFi to be included		
11	EXP slots: 6 x PCIe 3.0 slots including x16 & x8 bandwidth based slots should be included		
12	Ports: At least 4 USB 3.0 Ports (at least 2 in front), 1 x HDMI, 2 x LAN ports needed		
13	Diagnostics: Power, HDD , Network and System Info LEDs are required.		
14	Monitoring: Out of band system health monitoring through integrated IPMI controller on board is required		
15	Chassis: Tower form factor, System with Air Cooling Technology with optimized acoustics and auto controlled heat emission is required.		

16	Power supply: Sufficient and efficient with, Redundant (N+1) 80 Plus 1200W or higher power supply required		
17	OS: Ubuntu 64 bit Preloaded is required		
18	System utility with AI frameworks: System should be preloaded with Precompiled frameworks (CPU & GPU optimized MxNet, CuDNN, Caffe and Pytorch) to be supplied with the system, license must be in named of Customer organization, Data sheet of utility must be submitted with bid.		
19	Job Scheduling Utility License: Unified system management/monitoring tool set for configuration, diagnosis and management of the system is required. Toolset/Manager must be capable of supporting package and image based provisioning, intuitive web interface for managing and customizing the workstation. Tool set should have provisioning, monitoring, and reporting capabilities with JOB scheduling capabilities on the workstation for CLI and GUI based end user applications. S/W utility must be from the H/W OEM and not from a third party vendor. Product datasheet with demonstration/ catalogue should be attached in the technical bid.		
20	Audio: 3.5 mm headphone/mic jack on front side of chassis required		
21	Peripherals: 1 x 24" LED FHD,IPS,1920X1080,Monitor , Wired USB keyboard and mouse should be included		
22	Warranty: 3 Year On Site Comprehensive Warranty		

1. Selected vendor should send a representative to install all the necessary OS(s) and drivers needed.

2. In case any component doesn't work before the installation certificate is signed, the vendor should provide an equivalent replacement.

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)