## Annexure-A

## **Technical Specifications for Computational GPU System**

Processor(s)	1 x Latest Generation Intel Xeon W-1270 Processor with Minimum 8 Cores, 3.40 GHz Base, 16MB Cache				
Chipset	Intel® W480 Chipset				
RAM	Minimum 128 GB or higher DDR4-3200/2933 ECC Registered DIMMs Populated				
RAM	RAM Expandable up to 64GB or higher, At least 2 or more DIMM Slots will				
Expandability	be free for future expandable				
GPU Card	1 x Nvidia Quadro series professional Graphics with dedicated 16GB or higher GPU Memory installed from day one. GPU should be compatible with Gromacs.				
SSD	Minimum 512GB M.2 NVME SSD for OS Boot Load				
HDD	Minimum 2TB or more Raw Data Storage by using SAS/SATA 7.2K RPM HDD				
NVMe	Support for PCIe/M.2 NVMe drives (capable to populate Two or Nvme drives from day one)				
HDD Bays	Minimum 8 or more Hybrid Drive bays supporting HDD and SSDs, out of them at least 4 Hot-Swap bays must be available from day one.				
RAID	SAS/ SATA RAID Controller, Support RAID Level at least 0, 1, & 10				
Network	Dual Gigabit Ethernet ports or higher thru onboard controller				
Eve Clata(a)	2 x PCI-E 3.0 x16 slots, 1 x PCI-E 3.0 x4 Expansion slots,				
Exp Slots(s)	There should be enough space available in PCIe slots for install Two or more Single width GPGPU from Day one.				
Ports	At least 4x USB Ports (at least 2 in front)				
Monitoring	Out of band system health monitoring thru Dedicated/Shared Port by integrated IPMI controller				
ODD	Internal SATA DVD RW				
Cooling	The system with proper Cooling arrangements with optimized acoustics and auto controlled heat emission.				
P. Supply	Minimum 1200W or higher, 80 plus Redundant Platinum level or better- certified power supply with the capability to support at least Two more double widths GPU				
OS	Ubuntu 64bitPreloaded				
Compilers	GNU Toolchain Preloaded				
AI Frameworks Preloaded	1.CPU Optimised Tensor Flow 2CPU Optimised Pytorch 3CPU Optimised Theano 4CPU Optimised Caffe 5.CPU Optimised Text2speech 6.CPU Optimised Mxnet 7.CPU Optimised CuDNN 8.Accelerator Optimised Tensor Flow 9.Accelerator Optimised Pytorch 10.Accelerator Optimised Theano 11.Accelerator Optimised Caffe 12.Accelerator Optimised Text2speech 13. Accelerator Optimised Mxnet				

15. Clara Deploy SDK     16. Deep vision AI     17. BIGDFT     18. Parabricks     19. R     20. Microsoft CNTK     21. Kcras     22. Accord.NET     23. Spark Milb     24. Mt.Pack     25. Paddle Paddle     26. MKL     27. DNN     Containerizing Different Framework     Testing of Algorithms with container     Building Customer Containers     Out of band Management Capabilities, Centralized Management console     License for the purpose of health monitoring, power management and     firmware /S/W upgrades & updates. RestFul API to support and integrate     server management into existing management infastructure Advanced Power     Management     Anagement     Anageme		14. Accelerator Optimised CuDNN					
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Warranty One Year Onsite Comprehensive Warranty		5U or lesser Rack convertible Tower system					
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