

## Specifications

### GPU Hardware/ Software Infrastructure for AI Lab - 01 Set

#### Hardware Specifications:

S. No.	Parameter	Specifications
1.	Form Factor	Desktop/ Rack
Processor		
2.	Processor	Intel
3.	Number of Processors	1 or more
4.	Processor Generation	7 <sup>th</sup> or higher
5.	Processor Configuration	Intel Xeon E5-2698v4 (20 Core , 2.2 GHz, 50 MB Cache, 135 Watt) or better
Chipset		
6.	Chipset	Intel X99 or better
7.	Number of PCIe Slots Gen 3 (x16)	4 or more
Graphics		
8.	Types of Graphics	Discrete
9.	Graphics Cards	Tesla V100 SXM2 32 GB
10.	No of Graphics Cards (Pre-loaded)	04
11.	Total Graphics Memory	128 GB or more
Memory		
12.	RAM	DDR4
13.	Operating Frequency (RAM)	2400 MHz or higher
14.	RAM Type	ECC
15.	RAM Size	256 GB or more
Storage		
16.	Type of Hard Disk Drive – I (for OS)	SSD – 01 No
17.	Size of Hard Disk Drive – I	1.92TB or more
18.	Type of Hard Disk Drive - II	SSD – 03 Nos
19.	Size of Hard Disk Drive – II	1.92 TB x 3 or more
Operating System		
20.	Operating System (Pre-loaded)	Ubuntu or any other suitable Linux variant
Network Connectivity		
21.	Networking Interface	Dual Gigabit NIC 10/100/1000
22.	Certifications	Safety Certifications, ROHS Compliance, BIS Registration under CRS of Meity


#### Software Specifications:

S. No.	Parameter	Specifications
1.	GPU Driver	Pre-loaded with OEM certified AI/ DL Libraries like GPU Driver, CUDA Toolkit
2.	Other Open-source Software Toolkit	Caffe, Theano, Torch, BIDMach etc.


**Onsite Installation:** The hardware along with the software needs to be installed on-site and demonstration of all the functionalities to the concerned official(s).

**Warranty & Support:** 3 Years Onsite comprehensive warranty with full technical support for supplied software components. OEM technical assistance in code optimisation during period of warranty and support

**Training:** 5 full day onsite training for system administration, OEM's Deep Learning and Machine Learning frameworks along with demonstration of few practical case studies. Free access to OEM's instruction materials, tutorials etc.

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