



# THANTHAI PERIYAR GOVERNMENT INSTITUTE OF TECHNOLOGY

VELLORE – 632 002

**TENDER REFERENCE NO:TPGIT/VELLORE/ECE/03/A3/2020**

## **TECHNICAL SPECIFICATIONS –AI Serverand GPU Card**

Supply of **AI Server and GPU Card** with the following specifications

Sl.No	Description	Specification	Quantity
1.	Server	Compute node with 20 Cores, Intel CPU (skylake 6148 or higher) With 2 TB SSD Storage 512 GB DDR4 RAM or higher with ECC (Balanced configuration) 10 Gbps Ethernet Link Fiber Channel for SAN Storage Operating System :Linux Server or CentOS Server Type: Rack Server Dual Processor	2
2.	GPU	NVIDIA Tesla V100 NVIDIA Tensor Cores 640 CUDA Cores 5120 GPU Memory 32GB HBM2 Interconnect Bandwidth 300GB/s System Interface NVIDIA NVLink Max. Power Consumption 300W Form Factor SXM2 Memory Bandwidth 900GB/s ECC Yes	2
3.	Rack	42 U 800X1000mm Rack with Front glass door, Rear MS door, Lock and key,with wheels and 2 Nos of 6 socket 5/15 amps power manager	1
4.	LAN Switches and Networking, Installation of AI platform, Virtualisation and Software Installation& Training	L3 Switches (with both switching and routing compatibility) with 24 ports. Networking:24 ports with data cable (CAT6) from switch to terminals. Installation shall include connection to AI server through optical fibres.  Only open source machine learning software	
5.	NVLink to Interconnect GPUs	NV Link 2.0 with 300Gbps Bandwidth	2

- **Compatibility of Server ,GPU and Installation of Machine Learning is mandatory.**