Prayas Centre Name	Vel Tech Nidhi Prayas
City	Avadi, Chennai
State	Tamil Nadu
Fablab Page Link	https://veltechtbi.com/dst_nidhi_prayas.php

Equipment available at VEL TECH DST PRAYAS Shala

Section	Prototyping Facility	
Sr. No.	Equipment Name	Equipment detail
1	3D Printer	**Brand -** STRATASYS **Model -** STRATASYS F270 **Specification –** • 305 x 254 x 305 mm build envelope • 3 materials – ABS, PLA & ASA • Grab CAD Print • 4 slice heights (0.330mm, 0.254mm, 0.178mm & 0.127mm) • 4 material bays • Auto material change-over **Operational area-** Product development, Manufacturing, End-use parts, Medical, Education **Link of the User Manual-** https://drive.google.com/file/d/1lhDywKplB4-_gkJIh1pkIvGP9pqi3aDR/view?usp=sharing
2	PCB Printing Machine	**Brand** - LPKF Laser & Electronics AG **Model -** LPKF ProtoMat E34 **Specification –** • Material size - 229 mm x 305 mm x 5mm **Operational area-** Drills holes, Lays down the track, Dispenses solder paste, Reflow SMDs into Your Circuit **Link of the User Manual-** https://drive.google.com/file/d/1COR4b6Pc0f6DQBTgdEPKv3EA5IKe1EeZ/view?usp=sharing

Section	Metalworking Facility	
Sr. No.	Equipment Name	Equipment detail
3	CNC Milling Machine	**Brand -** Siemens **Model -** Siemens-808D Basic CNC Controller **Specification –** • Table size - 250 mm x 700 mm • Travel- X-350mm, Y-200mm, Z-300mm **Operational area-** Face milling, End Milling, Side and face milling,

		Drilling **Link of the User Manual-** https://drive.google.com/file/d/188TEoLCszl02ubZQxa8-_HQHdJdxPCv9/view?usp=sharing
4	CNC Router machine	**Brand** - Weikong **Model –** NK105G2/G# **Specification –** • Table size - 600 mm x 600mm x 100mm • Software- Mach 3 **Operational area-** Wood Carving, Metal Carving **Link of the User Manual-** https://drive.google.com/file/d/112tKwDKkcsCmEtCyE6u7dpKfkx49ZVSw/view?usp=sharing

Section	Electronic	
Sr. No.	**Equipment Name**	**Equipment detail**
5	Digital CRO	**Brand -** Tektronix **Model -** TDS2024C **Specification -** 200MHz-2GS/s-4-CH-TFT color, Input Voltage: 100 VAC to 240 VAC **Operational area –** Benchtop Oscilloscopes Oscilloscope; Digital Storage 200MHz 2GS/s 4-CH TFT Color Display USB Ports certificate of traceable calibration standard
6	Soldering Gun	**Brand –** Weller **Model -** Weller WE 1010 **Specification -** Weller WE 1010 Soldering Station, 230V **Operational area –** Soldering work station
7	Blower	**Brand -** Leister Technologies India pvt.Ltd, **Model -** MISTRAL 6 System 230V/3400W
8	Microcontroller programming tool	**Brand -** Xilinx Inc. **Model -** Xilinix ZYNQ All Programmable SOC ZC702
9	PCB Software(Eagle)	**Brand -** Autodesk
10	Keil Software	**Brand -** Embedded Systems Solutions **Model -** Keil MDK-PRO-ED25 **Specification -** Software: MDK-ARM Microcontroller Development Kit
11	Low Cost Multipurpose Endurance Drone DIY Kit	**Brand -** Dazzle Robotics **Model -** Pixhawk FSi6 1Kg (RKI-1973)
12	18DOF 6Legged Intelligent Hexapod DIY Project w/t Servo Control	**Brand -** Dazzle Robotics **Model -** RKI-2526 *Servo Upgrade 18 x RKI-1204 Metal Gear Servo*
13	17DOF Humanoid	**Brand -** Dazzle Robotics

	Aluminium Frame DIY with 18 servo Controller	**Model -** RKI-2524 *Servo Upgrade 17 x RKI-1206 METAL GEAR DUAL SHAFT 16KGCM Servo*
14	Rapid Robot Platform for Robocon	**Brand -** Dazzle Robotics **Model -** RKI-4072
15	Streak RC	**Brand -** Dazzle Robotics **Model -** RKI-2370 All Terrain Robot Ready to use with 1Km Range
16	All Terrain Robot, 6 wheel drive with Independent wheel suspension	**Brand -** Dazzle Robotics **Model -** RKI-6023 Ready to use with 1Km Range of radio controller
17	Raspberry Pi 3 Model B+ Kit	**Brand -** Quality Quest Engineers **Model -** Raspberry Pi 3 Model B+ Kit **Specification -** 1. including 1 x Raspberry Pi 3 Model B+ 1 x Micro USB Power supply 5V,3A 1 x Raspberry Pi 3 Model B/B+ case (Red+White), 1 x RJ45 Ethernet patch LAN cable 1 x HDMI to HDMI cable (Black colour) 1 x High Quality 16 GB Class 10 SD Card 1 x USB SD card Reader, 2. Arduino Mega 2560 REV 3 with USB Cable 3. OLED Displauy Screen 128x64 4. Raspberry PI camera 5. Finger clip Heart rate Sensor 6. Bluetooth Module 7. Sensors
18	Resistors, Capacitors, Diode,IC, Variable resistance, Copper clad, Rechargeable battery(4V),Battery	**Brand -** Texonic **Operation area –** Prototyping

Section	Mechanical Tools	
Sr. No.	**Equipment Name**	**Equipment detail**
19	MTRL,FDM,((M), PLA BLK, 60CI MTRL,FDM,(M), ABS M 30 IVR, 60 CI MTRL,FDM,(M), ASA IVR, 60CI ,FDM SUPPORT SR-35 60CI ,F270 STANDARD MODELING BASES-PACK OF 16, ECOWORKS CLEANING AGENT, DEBURING MACHINE, OIL	**Brand – VGK Enterprises**

		STONE, AIR GUN, Magnetic stand, Magnetic dial, Precision vice, C CLAMP SET, Wrench,ER 32 COLLECT SET, PRALLEL BLOCK,ANGLE PLATE	
20	Other General Measuring tools & hand tools	**Brand – VGK Enterprises**	