



Prayas Centre Name : Society for Innovation and Development

City : Bengaluru

State : Karnataka

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Equipment available at Society for Innovation and Development DST PRAYAS Shala

Section		Electronics
Sr. No.	Equipment Name	Equipment detail
1	Arbitrary/Function Generator	Brand - Tektronix Model - AFG1062 Specifications: 2 Channel, 60MHz Bandwidth, 300MSa/s sampling rate, 1M points arbitrary waveform memory, 14-bits vertical resolution, 3.9 Color LCD, 2U half rack, USB Host/Device
2	Multi Range DC Power Supply	Brand - GWInstek Model - PFR-100L-GL-GTL-258 Specifications - (0 -50V/0 -10A/100W) Fan-less Multi Range DC Power Supply (With GPIB + LAN)
3	6 ½ Digit Dual Measurement Multimeter	Brand - GWInstek Model - GDM-9061 Specifications - 6 ½ (1200000 Counts), Digit Dual Measurement Multimeter + GPIB Interface Card
4	Digital Storage Oscilloscope 70Mhz	Brand - Tektronix Model - TBS 1072B-EDU Specifications - 70MHz bandwidth, 1GS/s sample rate, 2 channels, 2.5K record length, Certificate of Calibration Standard, Education series
5	Digital Storage Oscilloscope 100Mhz	Brand - Tektronix Model - TBS 1102B-EDU Specifications - 100MHz bandwidth, 2GS/s sample rate, 2 channels, 2.5K record length, Certificate of Calibration Standard, Education series
6	Digital Storage Oscilloscope 150Mhz	Brand - Tektronix Model - TBS 1152B-EDU Specifications - 150 MHz bandwidth, 2GS/s sample rate, 2 channels, 2.5K record length, Certificate of Calibration Standard, Education series
7	Soldering Station	Brand - Monarch Model - M 70 Specifications - Input Line Frequency: 50/60 Hz, Temperature: 200-450 Degree C, Power: 70 Watt max



8	Digital Multimeter	Brand - Fluke Model - Fluke 106 Specifications - Digit Display: 4-digit, DC Voltage: 0-600 V V
9	SMT Component Tester	Brand - METRAVI Model - SMT 01 Specifications - Component Tester Combined with Multimeter, Display: 6000 Counts LCD, Auto Power Off

Section	Prototyping Facility	
Sr. No.	Equipment Name	Equipment detail
10	CNC Router	Brand - Mehta Cad Cam Systems Model - GX 1325V ATC Specifications - Spindle: 7.5 KW (Optional 10 KW & 12 KW), HSD Italian, Processing Materials: Wood, Plastic, Aluminium, Composites, Soft Material, Automatic Dust Extraction, Automatic Tool Changing Operational area - Working area (X, Y, Z): 1300×2500×300 mm
11	Laser Router: Non-Metal Laser Cutting and Engraving Machine	Brand - Mehta Cad Cam Systems Model - EVA-48 Specifications - Laser Type: CO ₂ , Laser Power: 80 W/100 W/130W, Processing Materials: Acrylic (Up to 20mm), Wood, MDF, Textile, Fabric, Cloth, Leather, Paper Operational Area - Working Area (X, Y, Z): 1220mm × 2440mm × 200mm.
12	3D Printer FDM	Brand - Fracktal Works Model - Julia Pro FDM/FFF Specifications - Filament Diameter: 1.75 mm, Nozzle Diameter: 0.25 mm to 0.6 mm, Nozzle System: E3D V6, Active Automatic Levelling & Calibration, Nozzle Temperatures: Up to 280 °C, Build Plate Temperature: Up to 150 °C, Supplied Slicing Software: Fractory Desktop Slicer, Supported File Types: STL, OBJ, X3D, 3MF, PNG, JPG, Connectivity: USB, Wi-Fi, LAN, XYZ Resolution: 8 Micron, 8 Micron, 2 Micron, Layer Resolution: 0.25 mm nozzle: 60 – 180 micron and 0.4 mm nozzle: 100 – 300 microns Operational Area - Working area (X, Y, Z): 400mm×350mm×400mm
13	Vacuum Assisted Thermoform	Brand - Interpack India Enterprises Model - IP-SP-SAVFM-120 120 Specifications - Maximum Forming Mold Area: 1200mmx1200mm, Frame Size Inner : 1600mm X 1600 Mm, Frame Size Outer : 1700mmx1700mm, Infrared Ceramic Heaters: Elstin Make 500w: Approx. 144 Nos, Sheet Feeding & Unloading Process: Manual, Raw Material (Sheetroll): Hips,Pvc, Pet, Abs,Polycarbonate, Cycle

		Time(Stroke/Minimum): Depends On The Material Used, Sheet Thickness (Min-Max): 1mm-6mm, Maximum Draw: 600mm*
14	3D Scanner	Brand - 3D Systems Model - Sence-2 3D Specifications - Scan volume - min 20 x 20 x 20 cm, max 200 x 200 x 200 cm, Colour image size - 1920(w) x 1080(h) px, Depth image size - 640(w) x 480(h) px, Operating range - min 40 cm, max 160 cm
15	GCC Cutting Plotter Vinyl Cutter	Brand - Jaguar Model - JV 61 Specifications - Supported Media Width: 610mm (24"), Without Stand
16	Spray Paint Gun	Brand - Pretail Paint Spray Gun Specifications - 1/2 Pint Painting Sprayer for Automotive Refining (236 ml, Silver)

Section	Metalworking Facility	
Sr. No.	Equipment Name	Equipment detail
17	Micro Milling Machine	Brand - Ace Micromatic Model - MCV - 400 Specifications - Pallet Size: 900 mm x 450 mm, Z-Axis Travel - 500 mm, Spindle Speed: 80-8000 RPM, Spindle Power Fanuc: 11 / 7.5 kW, T-Slot Diameter: 4 (N) x 18 (W) x 100 (P)
18	Dremel Tool Set	Brand - DREMEL Model - Dremel 4000-4/65 Specifications - Variable speed, Handle Type: 360-Degree Grip
19	Buddy Tig 200HF	Brand - ESAB Model - ESAB Buddy 200 HF Specifications - Automatic, Dimensions: 420 x 145 x 245 mm, Current Range: 10-200 A, Fuse Slow - Amps: 32 A, Welding Output: 200 A/18V @ 30%, 155 A/16.2V @ 60%, 130 A/15.2V @ 100%
20	Portable Inverter Welding Machine	Brand - ESAB Model - Buddy Arc200 Specifications - Welding Current Range: 5-200A, Single Phase, Working Voltage: 230V, Protection Class - IP 23S



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21	Handy Plasma 45i	Brand - ESAB Model - Handyplasma 45i Specifications - Air plasma cutting of MS, SS and Aluminium, Max Cutting Thickness: 15 mm, Frequency: 50 Hz, Gas Supply: Air
22	Mig 400i CCCV	Brand - ESAB Model - MIG-400i CCCV Specifications - 3 Phase, Welding Current Range: 40-400A, Working Voltage: 415+-15%V
23	Bench Drilling Machine	Brand - Makita Model - TB131
24	4" Angle Grinder	Brand - Makita Model - 9553B

Section		Power Tools
Sr. No.	Equipment Name	Equipment detail
25	Speed Hammer Drill	Brand - Makita Model - HP2070
26	Hammer Drill	Brand - Makita Model - HP1630
27	Table Saw	Brand - Makita Model - MLT100
28	Finishing Sander	Brand - Makita Model - B04556
29	Random Orbit Sanders	Brand - Makita Model - B05031
30	Jig Saw	Brand - Makita Model - JV0600K, 4327
31	Compound Miter Saw	Brand - Makita Model - LS1045
32	Scroll Saw	Brand - Makita Model - SJ401
33	Blower	Brand - Makita Model - UB1102
34	Heat Gun	Brand - Makita Model - HG6003
35	3.6V Li-Ion Cordless Screwdriver	Brand - Makita Model - DF001D
36	Vacuum cleaner	Brand - Makita Model - VC3210LX1 Specifications - Tank capacity: Dust - 32L & Water - 27L, Dimensions (L x W x H) : 552x398x685 mm (21-3/4"x15-5/8"x27"), Max peak air flow : 2.0 m ³ / min, Continuous rating input : 1,050 W



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Section	Hand tools		
Sr. No.	Equipment Name	Sr. No.	Equipment Name
37	Spanner Set Open Ended (6 - 50)	40	Spanner Set Round Ended (10 - 50)
38	Screw Driver Set (Assorted)	41	Hammer set (Assorted)
39	Pliers Set (Assorted)	42	Other Hand Tools

Section	Test and Measuring Instruments	
Sr. No.	Equipment Name	Equipment detail
43	Inclinometer	<p>Brand - Divinext</p> <p>Specification - Material: aluminum alloy, Electrical source: 2 * AAA batteries Measuring range: 4 * 90° Accuracy: ± 0.2° Resolution: 0.05° Repeatability: 0.1°</p>
44	Tachometer	<p>Brand - Kusam Meco</p> <p>Model - Combined/contact/Noncontact</p> <p>Specification - Measuring Distance: 50 to 500 mm (photo mode) mm Range: Photo mode: 2.5 to 99999 RPM / Contact Mode : 0.5 to 19999 RPM / Surface speed 0.05 to 1999.9 m/min. Accuracy: ± (0.05% +1digits)</p>
45	DigiMatic Height Gauge	<p>Brand - Mitutoyo</p> <p>Model - 192-632-10</p> <p>Specifications - Measurement range of 0" - 24"/0 - 600 mm, with selectable resolution of 0.0005"/0.01mm or 0.0002"/0.005mm. 2.LCD digital readout displays sharp figures for viewing ease. 3.Hand-operated feed wheel for measurement ease, selectable for coarse or fine travel. 4.Two reference height presets for making comparison measurements. 5.Statistical process control (SPC) output transmits results to a Mitutoyo mini processor or computer.</p>
46	Surface Workbench	<p>Brand - Indian Made</p> <p>Specification - Dim: 600mmx600mm Granite top.</p>