

Equipment List

Category	Equipment	Make and model	Qty	Status
3D Printing	Commercial Grade Stereolithography Printer - Large format	Form 3L	1	Available
	Commercial Grade Stereolithography Printer - Medical Grade	Form 3B	1	Available
	3D Printer- FFF Desktop Printer	3Dprintronics Prusa i3 Bear Upgrade	10	Available
	3D Printer- FFF Desktop Printer	Crealty CR-30	1	Available
Advanced Rapid Prototyping	Precision Digital Cutting System	ZUND G3 - 2500L	1	Available
Ceramic Studio	Electric Pottery Wheels - Medium Duty	Shimpo	6	Available
	Electric Pottery Wheels - Heavy Duty	Shimpo	4	Available
	Electric Kiln Internal Dimensions - Min 24"x24"x24" max 28"x28"x25" working chamber space	Skutt Cone Art Kilns	1	Available
	Potters Clay Slab Roller		1	Available
	Clay Mixer and Pugmill - Deairing Reclaimed clay mixer with clay extruder Maximum Batch Capacity - upto 15Kg	Peter Pegger	1	Available
Electronics Assembly	SMT Pick & Place Machine	NEODEN 4	1	Available
	Reflow Oven	NEODEN IN6	1	Available
	Manual SMT Solder Paste Printer - for singlesided PCB's	NEODEN 2636	1	Available
	Manual SMT Solder Paste Printer - high precision with X,Y & Theta Fine tuning option, spacer & PCB holder	NEODEN/PUHUI CM02	1	Available
	Desktop Reflow: Batch process with IR Heater Model : 937 or similar	PUHUI T-934M	1	Available
Electronics Testing	Digital Storage Oscilloscope - 100Mhz	Rigol MS05104+MS05000BND	15	Available
	Digital Storage Oscilloscope - 300Mhz	Rigol MS05354+MS05000BND	5	Available
	Digital Bench Top Multimeter	Keithley 2110-240	10	Available
	Digital Frequency Counter	Keysight 53210A	2	Available
	Arbitrary Function Generators - 25Mhz	Rigol DG1022Z	5	Available
	Arbitrary Function Generators - 160Mhz	Rigol DG4162	5	Available
	Spectrum Analyzer 9kHz3GHz	Rigol DSA832E-TG	1	Available
	Spectrum Analyzer 9kHz7.5GHz	Rigol DSA875-TG + USB-GPIB	1	Available
	RF Signal Generator	Rigol DSG3065B	1	Available
	Single Channel: Programmable DC Power Supply	Rigol DP711	5	Available
	Dual Channel Programmable DC Power Supply	Rigol DP821+HIRES DP-800	5	Available
	Triple Channel Programmable DC Power Supply	Rigol DP832	5	Available
	Linear Bench top DC Power supply- 30V 5A	--	30	Available
	Linear Bench top DC Power supply-60V 15A	--	3	Available
	Source Meters	Keithley 2401	2	Available
	LCR Meter Benchtop	Wayne Kerr 4110	5	Available
	Digital Insulation Resistance Tester	Motwane I-12	2	Available
	Li-Ion Battery Spot Welder	--	1	Available
	Stereo Microscope	Vision Engineering Mantis Elite	3	Available
	High End Soldering Equipment	JBC -	Multi	Available
	Thermal Imaging System - Electronics Testing	Flir ETS320	1	Available
	Thermal Imaging System - Handheld	Flir E76	1	Available
	Thermal Imaging System - Mobile	Flir C5	1	Available
	FLUKE 434 II - Three-Phase Energy Analyzer:	Fluke 434 II	1	Available
	General Multimeter	Fluke 15B+	20	Available
	True RMS Industrial Multimeter	Fluke 87V	5	Available
	True RMS Field Technicians Digital Multimeter	Fluke 115	5	Available
	Clamp Meter	Fluke 362 AC/DC	20	Available
	True RMS Clamp Meter	Fluke 325 AC/DC	10	Available
	Soldering Station	Hakko FX-888D	30	Available
	Solder Smoke Absorber	Hakko Hakko FA-400	30	Available
	Tabletop Camera Inspection Microscope	GSAS GSA412	1	Available
	Soldering Station- Hot Air	Proskit SS-969B	10	Available
	PCB Vise	Panevise 396	30	Available
	Table Mount Magnifier ESD Safe	--	40	Available
	Ultra Sonic Bath for PCB cleaning-2ltr	--	4	Available
	Ultra Sonic Bath for PCB cleaning-20Ltr	--	1	Available
	Logic Analyzer	Saleae Logic Pro 16	5	Available
	SMD Component Test Tweezers	Mastech MS8911	20	Available
	Sliding Rheostat,8 A, 100 ohm	Sciencetech -	1	Available
	Data Loggers	Sciencetech Nvis 632iC16	5	Available

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Finish Shop	Finishing Capabilities such as Bead Blasting, Anodising, Powder Coating			Planned
Laser Shop	CO2 Laser	Epilog Fusion Pro 48 120W	1	Available
	CO2 Laser	SIL 80W	1	Available
Metal and Machine Shop	VMC 3+2 Axis	Haas VF2+TRT-160	1	Available
	CNC Y Axis Lathe	Haas ST-20Y	1	Available
	CNC Tube and Pipe Bending Machine	Nargesa CC60	1	Available
	Vertical Turret Manual Milling Machine	S&T PM450	1	Available
	Medium Duty High Precision All Geared Head Lathe Machine With foot brake	S&T ST-460	1	Available
	Vertical Band Saw	FUHO - VBS2012	1	Available
	Polishing Grinder with Pedestal	Generic	2	Available
	Electric Tapping Machine - Flexible Arm Type	Generic	1	Available
	Precision Thermal Drilling & Tapping Machine	AMT-Centerdrill	1	Available
	Horizontal Band Saw	Generic	1	Available
	Arbor Press - 1 Ton	Generic	1	Available
Metrology	Mitutoyo Japan make Vernier Caliper 0 – 150mmwith fine Adj 532-119		2	Available
	Mitutoyo Japan make vernier caliper 0-200 mm with fine adj 532-120		2	Available
	Mitutoyo Japan Make vernier caliper 0-300 mm with fine Adj 532-121		2	Available
	Mitutoyo Japan Make Digital vernier caliper 0-150 mm L.c.01 mm 500-196		20	Available
	Mitutoyo Japan Make Digital vernier caliper 0-200 mm 500-197		20	Available
	Mitutoyo Japan Make Digital vernier Caliper 0-300 mmL.c.01 mm 500-754		5	Available
	Mitutoyo Japan make Digital vernier caliper IP-67 0-150 mm (500-702)		2	Available
	Mitutoyo Japan make Digital vernier caliper IP-67 0-200 mm (500-703)		2	Available
	Mitutoyo Japan make Digital vernier caliper IP-67 0-300 mm (500-704)		2	Available
	Mitutoyo Japan Digital Outside Micrometer 0-25mm Lc 0.001mm 293-240		15	Available
	Mitutoyo Japan Make Digital Height Gauge 0-300mm 192-630		1	Available
	Jafuji Indian make Slip Gauge set 83 Pcs work shop- Grade with Calibration		1	Available
	Mitutoyo Japan make Slip Gauge Block Set, 112 Pcs grade-0 (516-938)		1	Available
	Mitutoyo Japan make Digital Dial Indicator L.c .01 x12.7 mm 543-781		10	Available
	Mitutoyo Japan Digital Dial indicator L.c.0.001 mm 0-12.7 mm 543-390		6	Available
	Kristeel Indian make steel scale 150 mm		50	Available
	Kristeel Indian make steel scale 300 mm		20	Available
	Kristeel Indian make steel scale 600 mm		10	Available
	Kristeel Indian make steel scale 1000 mm		10	Available
	Jafuji Indian make Granite surface plate 1000x630x150 mm		1	Available
	M.S.stand For above Jafuji Indian make		1	Available
	Elektro Physik German make coating thickness gauge: Ferrous Non ferrous Minitest 650 FN		1	Available
	Jafuji Indian make Spirit Level 150 x Acc.02 mm		1	Available
	Jafuji Indian make Spirit Level 300 x Acc.02 mm		2	Available
	Mitutoyo Japan make Radius Gauge 1-7 mm (186-105)		5	Available
	Mitutoyo Japan make Radius Gauge7.5-15 mm (186-106)		5	Available
	Mitutoyo Japan make Radius Gauge 15.5-25mm (186-107)		5	Available
	Indian make Weld Gauge universal type		2	Available
	Insize china make Digital Vernier Caliper 0-150 mm (1108-150)		20	Available
	Insize china make Digital Vernier Caliper 0-200 mm (1108-200)		10	Available
	Insize china make Digital Vernier Caliper 0-300 mm (1108-300)		10	Available
	Insize Make Bevel Edge Try square 100x70mm (4790-0100)		5	Available
	Insize Make Bevel Edge Try square 150 x100mm (4790-0150)		5	Available
	Insize Make Bevel Edge Try square 200x130mm (4790-0200)		5	Available
	Insize Make Bevel Edge Try square 300 x200mm (4790-0300)		5	Available
	Jafuji Indian make Magnetic "V"- Block 4"/100X95X70mm		2	Available
	Jafuji Indian make Micrometer Stand		2	Available
	Jafuji Indian make Granite Surface Plate 1200X800X160mm		1	Available
	M.S Stand for the above		1	Available
	M1X0.2 5H		2	Available
	M2X0.4 6H		2	Available
	M3X0.5 6H		2	Available
	M4X0.7 6H		2	Available
	M5X0.8 6H		2	Available
	M6X1 6H		2	Available

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	M8X1.25 6H		2	Available
	M10X1.50 6H		2	Available
	M12X1.75 6H		2	Available
	M16X2.0 6H		2	Available
	Mitutoyo Japan make 2D Linear Height Gauge LH600 0-972mmcode.518-353E-21		1	Available
	Dia 3mm Ball Probe 957262		1	Available
	Dia 14mm Disk Probe 957264		1	Available
	Dia 8mm Stem Dial Indicator Holder		1	Available
	Dia 10mm Ball Probe L=120mm 12AAF669		1	Available
	Depth Probe for LH600		1	Available
	Mitutoyo Japan make Lever Type Dial Indicator L .c- 0.01mm(513-404)		1	Available
	Mitutoyo Japan make Magnetic stand (Standard Type) CODE. 7010S		2	Available
	Jafuji Indian make Mini Universal Magnetic Stand (JMB 108)		4	Available
	Jafuji Indian make Universal Magnetic Stand (JMB 106)		5	Available
	Jafuji Indian make Portable Hardness Tester HTP1600		1	Available
	Mitutoyo Japan make Feeler Gauge Set 0.05-1mm 20 blades (184-304)		5	Available
	Rubert &Co., make Surface Roughness Specimen Chart		1	Available
	Mitutoyo Japan make Bevel Protractor 150 & 300mm Length (187-901)		2	Available
	Jafuji Indian make Steel 'V' – Block 50X40X40mm		4	Available
	Jafuji Indian make Bench Center 500X160mm		1	Available
	Mitutoyo Japan make Bore Gauge 6-10mm with Dial LC- 0.01mm (511-209)		1	Available
	Mitutoyo Japan make Bore Gauge 10-18.5 with Dial LC 0.01mm (511-201)		1	Available
	Mitutoyo Japan make Bore Gauge 18-35mm with Dial LC 0.01mm (511-701)		1	Available
	Mitutoyo Japan make Bore Gauge 35-60mm with Dial LC 0.01mm (511-702)		1	Available
	Rubert & Co., make Short Blasting		1	Available
	Mitutoyo Japan make Double Ball Micrometer 0-25mmLC 0.01mm (115-215)		4	Available
	Mitutoyo Japan make Digital Ball Micrometer 0-25 mm L.C 0.001 mm Code. 395-271-30		2	Available
	CryStal Indian make Parallel Block Set 100 mm set of 6 pieces		2	Available
	CryStal Indian make Parallel Block Set 150 mm set of 6 pieces		2	Available
	Digital Hand Held Refractometer Range. Brix : 0.0 to 53.0% ATAGO Make		1	Available
	Digital Force Gauge / Push pull Gauge shimpo 50 Kgs		2	Available
	Digital Depth Micrometer 0-150 mm ,L.C.0.001 mm ,Code.329-250		1	Available
	Mitutoyo Japan make Quick Mini Thickness Gauge Range. 0-12 mm Code. 700-118		2	Available
	Mitutoyo Japan make Digital Universal Protractor Code. 187-502		2	Available
	Insize make SS Digital Protractor Code. 2176-200		5	Available
	Indian make thread pitch gauge inch Kristeel make		20	Available
	Indian make Metric Kristeel make		20	Available
	Chamfer Gauge Range. 0.5 to 5 mm Kristeel Indian make code. 3125		10	Available
	Degree Protractor Gauge Heavy Duty -150 mm DP-HD6 Kristeel Indian make		10	Available
Testing Lab	Electrodynamic Vibration Test System	IMV Corp Japan m060/MA1+K2 Sprint	1	Available
	Bench Top type Temperature & Humidity Chamber	ESPEC Corp, Japan SH-642	1	Available
	Servo Controlled Universal Testing Machine (Tabletop - 300Kg-f)	UTM-300Kg-f	1	Available
	Shock& Vibration Data Logger	Shinyei Kaisha Electronics A01-16400	1	Available
	Temperature Chamber (Industrial Oven)	ESPEC Corp, Japan PH-102	1	Available
	Microgram Weighing Scale	Tulaman HT-JS-500	1	Available
	Digital Precision Weigh Scale	Tulaman EPS-50	1	Available
Welding	400 Amps SMAW (ARC) welding	Kemppi make Master S 400 A	1	Available
	300 Amps AC/DC GTAW & MMAW (TIG) welding	Kemppi make Mastertig 335 AC DC G	1	Available
	Kemppi ,400 Amps (MIG) MAG Welding	Kemppi make Fastmig X 3 with F 10 Wire feeder	1	Available
	AC Spot welding (Resistance welding) machine 35KVA	Kirpekar Engg. Make KTSP 35	1	Available

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	Plasma Cutting machine to cut up to 12 mm thick Steel	Victor Technologies make Cutmaster 12	1	Available
	Welding Fume Extractor self-cleaning for Wall mounting with two exhaust arms type	KEMPER Make Maxifil	1	Available
	Mobile Fume Extractor with Single Arm type	KEMPER Make Filtermaster XL	1	Available
	Welding Tables of size 2400x1200x750 mm – Fixto with fixtures set	FIXTO Make NST 2412	1	Available
	Welding Table of Size 1200x1200x750 mm – Fixto with fixtures set	FIXTO Make NWT 200	1	Available
Wood Shop	CNC Router Large Format	MultiCam Apex3R	1	Available
	CNC Router Small Format - AR8	Axiom Precision ProV5	1	Available
	Band Saw - LB1200F	Makita	1	Available
	DVR Drill Press with Guard Bench Model	NOVA Viking	1	Available
	Portable Planer - 2012NB	Makita	1	Available
	Belt And Disc Sander - JSG-64	JET	1	Available
	Woodworking Joinery Machine	PantoRouter	1	Available