

Name of the Trade		INFORMATION TECHNOLOGY	
S.No.	Name of the item	Std List No.	Specifications
(i)	(ii)	(iii)	(iv)
1	Basic Analogue Electronics Trainer	1	To observe 60 HZ, 1hz output on a led logic monitor using ic 5369 and crystal,The IC7490 is constructed as a divide by 10 counter and divide 6 counter,Pulse Generator Using 5369 Crystal For Output Of 60 HZ And 1HZ Technical Specification:,Built in power supply : +5V & +12V DC,Mains : 230V AC,Dimension : 27CMS X 17CMS [metal cabinet],Weight : 2KGS APPX
2	SMPS Trainer	2	Input : 80 to 230 V AC $\pm 10\%$, 50 / 60 Hz,Outputs : +5 V and ± 12 V DC regulated,Switching Transformer : Input : 320 V DC switching at 132 KHz,Output : 30 V AC (approx), Fuse : 500 mA (Slow blow)
3	Insulated Screw Driver (different types)	3	pack of 6 different size ,Insulated Screw Driver ,One Way PP Screwdriver Made of good quality chrome vanadium steel Special heat treatment Nice hardness and toughness
4	Knife double bladed electrician	4	Double Blade Electrician Folding Knife 1.Straight and Curved blade tool 2.Wide handle, good hold for big hand 3.Easy opening
5	Insulated handle thin connector screw driver	5	Insulated Screw Driver ,One Way PP Screwdriver Made of good quality chrome vanadium steel Special heat treatment Nice hardness and toughness
6	Line tester	6	Voltage (AC) 0 to 75 VAC 75 to 250 VAC 1 V 1 V ± 1 V ± 3 V R-T, R-G, T-G R-T, R-G, T-G Voltage (DC) 0 to ± 100 V ± 100 to ± 350 V Voltage (AC) 0 to 75 VAC 75 to 250 VAC 1 V 1 V ± 1 V ± 3 V R-T, R-G, T-G R-T, R-G, T-G Voltage (DC) 0 to ± 100 V ± 100 to ± 350 V
7	Heavy duty screw driver	7	LED powerful torch, Foldable length: approx. 12.5 cm/ 4.92", Unfold length: approx. 21.5 cm/ 8.46",Weight: 214g / 7.55oz, 4 Philip and 4 Slotted Screwdrivers, Screwdriver length: 9 cm Approx
8	Combination plier	8	Insulated ,84-168 Type: Pliers Comb Snap Ring Size: 152mm/6
9	Long nose plier	9	Double dipped handles for comfort,Suitable For :Pliers,Product type :Hand Tools,Nickel chromed for durability,Small Sized for Precision work
10	Tweezer	10	100mm insulated

11	Phillips type screw driver set	11	pack of 6 different size ,Insulated Screw Driver ,One Way PP Screwdriver Made of good quality chrome vanadium steel Special heat treatment Nice hardness and toughness
12	Wire stripper	12	Wire Stripper: Upto 4mm ² ,Cable Cutter : Upto 10mm & Upto 35 mm (Umang, Varun - 10, Tiger - 35, Chirag - 125, Chirag - 250)
13	Soldering iron, 20/25watts	13	Material Type: Metal and Plastic,Suitable for soldering light gauze wires, thin metals and hobby work,Reaches working temperature in 2 minutes,Comes with 2 soldering tips,Power: 30 watts, Operating Voltage: 220 volts,Pin Head: Round Pin,Package Contents: 1-Piece Soldering Iron, 2 Soldering Tips and 1 Safety Stand1of 20 watts abd 25watts
14	Desoldering pump	14	Desoldering Pump is fitted with a Teflon Tip and is 13" long including tip. Durable corrosion resistant plastic construction. Precision metal plunger. Corrosion treated springs. Insulated vacuum pulse. Regulated return (1 millisecond $\pm 30\%$). Uniform reset pressure (11in. lbs. $\pm 20\%$)
15	Digital Multimeter-hand held	15	DIGITAL MULTIMETER Sensing AVERAGE LCD Display 3½ DIGITCounts 1,999.00 Model No. 63.00 Voltage Range (Volts) 200MV, 2V, 20V, 200V, 1000V (DC) 200, 750V (AC) Current Range (Amp) 200MA, 2MA, 20MA, 200MA, 10A Resistance (Ohm) 200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ Features * POWER: ONE 9V BATTERY, EVEREADY TYPE 216 OR EQUIVALENT * BATTERY LIFE: 200 HOURS TYPICAL * ACCESSORIES: SUPPLIED WITH A PAIR OF TEST LEADS, BATTERY (INSTALLED), INSTRUCTION MANUAL Power Input 216(9V) X 1
16	Temperature controlled soldering/ desoldering station	16	MICRO PROCESSOR BASED PID CONTROLLED ,PROGRAMMABLE, DIGITAL SOLDERING AND DESOLDERING STATION WITH VERY EFFICIENT, DOUBLE CYLINDER & DC MOTOR PUMP Temperature controlled 230 v with accessories

17	SMD soldering/desoldering station	17	Temperature Soldering Desoldering SMD Rework Stations : RX-802AS, , RX-711AS, RX-701AS, PX-501, PX-501AS, RX-852AS, PX-251AS, Temp. Controlled Soldering Irons : FIX TEMPERATURE PX-232, PX-238, PX-242 , VARIABLE TEMPERATURE CONTROL SOLDERING IRON-PX-201, Soldering Iron: General Purpose Soldering Iron KS-Series, PROFESSIONAL CERAMIC HEATER SOLDERING IRON-CXR-41, DUAL WATT SOLDERING IRON-TQ-95, HIGH WATT SOLDERING IRONS-HP- series, GAS SOLDERING IRON SET-GS-510, COMBINED SOLDERING DESOLDERING STATION Model SVS-500, BENCH TOP DESOLDERING STATION Model TP-200, DESOLDERING GUN Model TP-100 & TP-100AS, MANUAL DESOLDERING PUMP-GS-100 and GS-108, SMD Rework Station: XFC-110, XFC-210, INTELLIGENT SMD REWORK SYSTEM XFC-300-301, HOT AIR PENCIL FOR SMD REWORK- XHP-110, BGA Rework system: INTELLIGENT SMD and BGA Rework System Model GSR-302, Economical GSR-210SMD and BGA Rework System, BENCH TOP FUME ABSORBER AT-123FA , PRECISION PID Control SOLDER POT PTO-100C, POT-200C, POT-400C, SOLDER POT -Model POT-21C, LEAD FREE SOLDER POT-22C, Solder Pot with ceramic Bath POT-23C, LEAD FREE PID Control Solder Pot POT-102C, LEAD FREE PID Control Solder Pot POT-202C, SOLDER POT SP-150T, SOLDER POT SP-201/401, SOLDER POT SP-750T, SOLDER POT PID Control POT-50C.230 v withaccessories
18	Wire gauge set	18	wire gauge set for different size ,plastic handle
19	Permanent magnet bar	19	Neodymium Bar Magnets Strong Magnets Refrigerator Magnets Super Strong Rare Earth Magnets 1/2 x 1/4 x 1/8 inch Bar N48
20	Solenoid with core	20	Solenoid with core
21	Electric bell	21	12V 23A battery
22	Battery storage lead acid 6V & 12 V	22	L I T H I U M battery Nominal voltage: 3.0V 2.3. Nominal capacity: 210mAh (on continuous discharge at 20°C under 15kΩ load to 2.0V end-voltage) 2.4 Outer dimensions: Outer dimensions shall be as shown in Fig. 1, Battery Dimensions.1. 6 v and 2. 12 v
23	Maintenance Free Battery	23	Rechargeable Cells,Lead Acid of 12 v
24	Hydrometer	24	UV detection with led torch ,:portable micro mini
25	Battery charger	25	Charger for different volage for rechargeable batteries
26	Rheostat variable values	26	different voltage
27	Variable resistance /potentiometer	27	variable resisittance
28	DC& AC ammeter 0-50 mA (table model for lab experiments)	28	DC& AC ammeter 0-50 mA (table model for lab experiments)

29	DC& AC ammeter 0-500 mA(table model for lab experiments)	29	DC& AC ammeter 0-500 mA(table model for lab experiments)
30	DC& AC ammeter 0-1mA(table model for lab experiments)	30	DC& AC ammeter 0-1mA(table model for lab experiments)
31	DC& AC ammeter 0-1 A(table model for lab experiments)	31	DC& AC ammeter 0-1 A(table model for lab experiments)
32	Analog Multimeter	32	Null (zero center) meter $\pm 5 / \pm 25$ in DCV,High resistance up to 200M Ω with low voltage, Protective body cover, Capacitance, dB, Li measurement Bandwidth : 30~100kHz (AC10V)
33	LCR meter	33	Microprocessor based Fully Automatic L, C, R & Q Measurement,Autoranging with Direct Digital Readout,250mA fuse,4 Terminal Measurement Technique,2 per second measuring update rate,1H-2000H (series mode), 200 μ H-1H (series mode) measurement ranges for basic accuracy range of inductance ($q > 10$),1 μ F-2000 μ F (series mode), 200pF-1 μ F (parallel mode) measurement ranges for basic accuracy range of capacitance ($q > 10$),1 ohm-2M ohm (upto 10K series mode & >10K parallel mode) measurement ranges for basic accuracy range of resistance ($q > 10$),0.25 to 4 measurement ranges for basic accuracy range of quality factor, Series of Parallel Equivalent Measurement.100Hz, 1KHz measurement ranges for basic accuracy measurement frequency,Special Mechanism for Fast and Easy
34	20 MHz Dual Trace Oscilloscope	34	<p>20 MHz Dual Trace Oscilloscope Operating Modes : Channel I, Channel II, Channel I & II alternate or chopped (approximately 350 KHz), X-Y operation (Ratio 1:1 Input via CH II), Add/Sub CH I \pm CH II, Invert CH II</p> <p>Y Deflection Factor: Operating mode: Y1, Y2, ALT, CHOP, ADD, X-Y, Deflection Factor(Y1 or Y2): 5mV/div~20V/div in 1-2-5 sequence,altogether 12 steps. Error <3%, MAG Rate: x5 Error <5%, Frequency Bandwidth: AC: 10Hz~30Hz-3dB DC: 0~30MHz-3dB, Frequency Bandwidth by MAG: AC: 10Hz-5MHz-3dB DC:0~5MHz-3Db, Rising time: <18nS, <70ns by MAG, Overshot: <5%, Damp:5%, Coupling Mode:AC ,DC, Input Impedance: 1\pm5%MΩ<30pF (direct) 10\pm5%MΩ<23pF (by probe), Max Safe Voltage: 400V (DC+ACp-p) Slope Inverting: Y2 Only</p>

35	Function Generator	35	Waveforms: Sine, Square, Triangle, Ramp, Pulse, TTL etc., Amplitude Range (no load): from 1mVpp to 20Vpp Accuracy: $\pm 5\%$ Resolution: 0.1mV Frequency Range from 0.2Hz to 2MHz Accuracy $\pm 1\%$ Resolution 1mHz Output Power 2Wp-p Output Impedance 50 Ω Attenuator 20dB + 40dB Duty Cycle from 10% to 90% Frequency Counter from 0.2Hz to 10MHz General Characteristic Power AC 220V, 50Hz
36	Pulse Generator	36	0.1Hz-1MHz'.250pS Delay & Width Resolution on 8 channels,50pS channel Jitter / 800pS RMS Ext. jitter,Independent clock rates for each channel Clock In & Clock Out, Programmable (Ethernet/USB/RS-232/GPIB),Combine Electrical and Optical Outputs,Dual Inputs (Gate+Trig / 2 Trig)
37	Bread board for connecting various components i.e. diode, resistances, capacitors etc of different dimensions	37	Breadboard size: 3.3"L x 2.1"W,Weight: 2.08 oz. (0.13 lbs.)Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry,0.1" hole spacing,Pins are identified by numbered rows and columns Ideal for high frequency and low noise circuits,Use to breadboard and debug circuit designs Low static, plastic body - CMOS safe,Nickel-plated clips designed to withstand up to 5,000 insertion cycles,Breadboard strips connect together to form larger working areas,Components are easily interconnected using 20-28 AWG wire (P/N 19290 & P/N 20080),Terminal strips: 1,Bus strips: 2,Contact points: 400
38	Lug boards for circuit wiring	38	Base Material:Copper, Aluminum Al based Copper Clad Laminate,Flame Resistance Copper Clad Laminate,Usual thickness ranges from 0.5mm to 2.0mm.Usual size:20"x 24"; Copper clading: H/H
39	0-30 V, 2 Amp, Regulated DC Power Supply	39	Input AC: 220 $\pm 10\%$ 50 Hz ± 2 Hz 0-30V, 0-3A continuously adjustable 0-30V, 0-3A continuously adjustable 5V, 3A fixed Four 3 ½ Digit Panel Meters Display / Analog Display Line Regulation: CV $\pm 0.01\% + 2$ mV;..
40	SMPS of PC	40	input 230 v,output :various
41	PC Pentium IV or latest configuration (for testing with SMPS)	41	Computer Server Intel Pentium IV @ 3.2 GHz or higher, Intel Motherboard, 250 GB Hard Disk, 1.44 MB Floppy Disk Drive, 17" Colour Monitor, MS Mouse, Keyboard, DVD ROM, 2x512 MB RAM, Network Interface Card.
42	UPS 500 VA	42	UPS,300 Watts /500 VA,Input 230V /Output 230V, Interface Port Optional Simple Signalling RS232 cable
43	Printer laser (B& W)	43	Laser : 32MB Standard Memory, Resolution : Monocolor 600x600 dpi, Paper Size A4, Print speed (A4 Size): 25 ppm, 1 Page Out Time : 7 Sec., Port : 1 Hi-Speed USB 2.0, Network card 10/100, Duplexing, Windows 8 & Mac OS Compatible; Deskjet : Page per min- 32/31(black/color), up to 4800 optimize DPI color, high speed USB, Window 8 or above Compatible; MDF : Printer type : Laser, Mono/Color : Mono, Minimum printing speed (ppm) : 25, category : Duplex, ADF/DADF : DADF, Networking : Yes, Fax : Yes;

44	Transformer 0-12 V, 6-0-6 V, 1 Amp	44	1. 0-12V 1 Amp, 2. 0-6V 1 Amp
45	Rubber gloves	45	Rubber type
46	Instructor table & chair	1	<p>Table: Computer Table of size – 4 feet length X 2 feet width X 2.5 feet height. Computer Table top make of both sides pre-laminated board The edges of the compute table top to be covered with PVC beading. Computer table will be provided with sliding key board</p> <p>Computer chair: The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam is designed with contoured lumbar support for extra comfort. (MID BACK) SIZE: 40.0cm. (W) X 45.0cm. (H) SEAT SIZE: 43.0cm. (W) X 39.0cm. (D) The HR Polyurethane foam is moulded with density=45+/-2 kg/m cube and hardness load 16+/-2 kgf as per IS:7888 for 25% compression. The permanent contact mechanism is designed with 360° revolving type.14° maximum back-tilt only.Upright position locking.Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 12.0 cm.The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. The pedestal is injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 61.0cm. pitch-center dia. (71.0 cm with castors).The twin wheel castors are injection moulded in Black Nylon. Color:blur/red</p>
47	Suitable Table Teak Wood fitted with Back Panel complete with different types of meters/switches, AC/DC supplies etc. required for testing of electronic circuits. Insulation mats to cover below the table.	2	Suitable Table Teak Wood fitted with Back Panel complete with different types of meters/switches, AC/DC supplies etc. required for testing of electronic circuits. Insulation mats to cover below the table.
48	Revolving Stool cum chair	3	<p>The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam is designed with contoured lumbar support for extra comfort. (MID BACK) SIZE: 40.0cm. (W) X 45.0cm. (H) SEAT SIZE: 43.0cm. (W) X 39.0cm. (D) The HR Polyurethane foam is moulded with density=45+/-2 kg/m cube and hardness load 16+/-2 kgf as per IS:7888 for 25% compression. The permanent contact mechanism is designed with 360° revolving type.14° maximum back-tilt only.Upright position locking.Tilt tension adjustment. The pneumatic height adjustment has an adjustment stroke of 12.0 cm.The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. The pedestal is injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 61.0cm. pitch-center dia. (71.0 cm with castors).The twin wheel castors are injection moulded in Black Nylon. Color:blur/red</p>

49	Computer Table, Printer Table, Stools	4	Computer Table of size – 4 feet length X 2 feet width X 2.5 feet height. Computer Table top make of both sides pre-laminated board The edges of the compute table top to be covered with PVC beading. Computer table will be provided with sliding key board
50	Green Glass Board	5	abrasion resistant ,smooth surface, markers or colored pens can be used for free-flow writing • Scratch resistant,Chemical resistant,Bacteria resistant,Fire resistant,Graffiti resistant,Stain resistant Standrad Sizes:1800x1200mm(6*4ft)
51	Metal Rack	6	5 commercial-grade 60” x 24” shelves, 2 non-locking,Shelves adjustable in 1" increments ,Assembled dimensions: 60” W x 24” D x 77” H
52	Locker with 10 drawers (standard size) for 20 trainees	7	STEEL LOCKERS, 10 COMPARTMENTS, WITH INDIVIDUAL LOCKS. 1980 X 910 X 480 MM DEPTH.
53	Storage Almirah	8	The overall size of the storage shall be 916mm (W) x 486mm (D) x 1980mm (H). The contruction shall be welded construction with 0.7mm thick CRCA for shelf and 0.8mm thick for back. The door shall be made of 0.8mm thick CRCA and all other metal component shall be made of 0.9mm thick CRCA. The locking and handle of the storage shall be mazak handle with three way locking mechanism. The shelving shall be height adjustable and shall have a load capacity of 40kg. The product shall be epoxy powder coated to the thickness of 50 microns Colors : Prince Grey and Snowbell Grey
54	Book shelf (Glass panel)	9	The overall size of the storage shall be 916mm (W) x 486mm (D) x 1980mm (H). The contruction shall be welded construction with 0.7mm thick CRCA for shelf and 0.8mm thick for back. The door shall be made of 0.8mm thick unbreakable glass and all other metal component shall be made of 0.9mm thick CRCA. The locking and handle of the storage shall be mazak handle with three way locking mechanism. The shelving shall be height adjustable and shall have a load capacity of 40kg. The product shall be epoxy powder coated to the thickness of 50 microns Colors : Prince Grey and Snowbell Grey
55	Fire fighting equipment, first aid box etc.	10	fire extinguisher ABC 5 Kg specification 1.6mm,hydraulic test pressure 30 bar, temprature range 0-60 degree celcius, jet range 4mm max. period of discharge 25 sec, min discharge quantity 85%
56	Computer Maintenance Tables of Suitable sizes	11	650 x 500 x 750mm ,sunmica topwith 19 mm thick commercial board finished with approved laminate on top
57	Shoe Rack	12	5 commercial-grade 60” x 24” shelves, 2 non-locking,Shelves adjustable in 1" increments ,Assembled dimensions: 60” W x 24” D x 77” H

58	Intel Pentium IV @ 2.0 GHz or higher, 512 MB RAM, Intel Motherboard, 40 GB Hard Disk, 17" Monitor, Keyboard, Mouse, 52X CD ROM Drive, 1.44 MB FDD, Multimedia kit, Network Interface Card or latest configuration	1	processor speed @ 2.0 GHz or higher, 512 MB RAM, Intel Motherboard, 40 GB Hard Disk, 17" Monitor, Keyboard, Mouse, 52X CD ROM Drive, 1.44 MB FDD, Multimedia kit, Network Interface Card or latest configuration
59	ISDN/Broad Band Internet Connection	2	
60	20 MHz Dual Trace Oscilloscope	3	<p>20 MHz Dual Trace Oscilloscope Operating Modes : Channel I, Channel II, Channel I & II alternate or chopped (approximately 350 KHz), X-Y operation (Ratio 1:1 Input via CH II), Add/Sub CH I \pm CH II, Invert CH II</p> <p>Y Deflection Factor: Operating mode: Y1, Y2, ALT, CHOP, ADD, X-Y, Deflection Factor(Y1 or Y2): 5mV/div~20V/div in 1-2-5 sequence,altogether 12 steps. Error <3%, MAG Rate: x5 Error <5%, Frequency Bandwidth: AC: 10Hz~30Hz-3dB DC: 0~30MHz-3dB, Frequency Bandwidth by MAG: AC: 10Hz-5MHz-3dB DC:0~5MHz-3Db, Rising time: <18nS, <70ns by MAG, Overshot: <5%, Damp:5%, Coupling Mode:AC ,DC, Input Impedance: 1\pm5%MΩ<30pF (direct) 10\pm5%MΩ<23pF (by probe), Max Safe Voltage: 400V (DC+ACp-p) Slope Inverting: Y2 Only</p>
61	Digital trainer kit	4	7 segment LED display (2 nos.)Logic input switches (10 nos.)Logic status indicators (10 nos.Bounce less Pulsar 1 Hz to 100 KHz
62	Logic Probes/Logic Pulser	5	Frequency Response 50MHz, Detectable Pulse Width 10ns, Logic Threshold TTL Hi 3V, Lo .75V, Input Impedance CMOS Hi 60% Vcc, Lo 15% Vcc
63	Digital IC tester	6	Input Voltage: 230VAC. Tests a wide range of Digital IC's such as 74 Series, 40/45 Series of CMOS IC's.
64	Function Generator	7	<p>Waveforms: Sine, Square, Triangle, Ramp, Pulse, TTL etc., Amplitude Range (no load): from 1mVpp to 20Vpp Accuracy: \pm5% Resolution:0.1mV Frequency Range from 0.2Hz to 2MHz Accuracy \pm1% Resolution 1mHz Output Power 2Wp-p Output Impedance 50Ω Attenuator 20dB + 40dB Duty Cycle from 10% to 90% Frequency Counter from 0.2Hz to 10MHz</p> <p>General Characteristic Power AC 220V, 50Hz</p>
65	Pulse Generator	8	0.1Hz-1MHz'.250pS Delay & Width Resolution on 8 channels,50pS channel Jitter / 800pS RMS Ext. jitter,Independent clock rates for each channel
66	Digital ICs	9	Clock In & Clock Out,Programmable (Ethernet/USB/RS-232/GPIB),Combine Electrical and Optical Outputs,Dual Inputs (Gate+Trig / 2 Trig)

67	DC regulated power supply (5 volts and 12 volts)	10	Input AC: 220±10% 50 Hz±2Hz 0-30V, 0-3A continuously adjustable 0-30V, 0-3A continuously adjustable 5V, 3A fixed Four 3 ½ Digit Panel Meters Display / Analog Display Line Regulation: CV±0.01%+2mV;..
68	Digital Multimeter	11	3.5"LCD display, Maximum range of 1000VDC, 750VAC & 10A AC/DC, Maximum range of 10MΩ
69	Analog Multimeter	12	High input impedance (DCV2.5~12MΩ/V), and 0.12μA range (DCA),Bandwidth 40Hz~1MHz AC sign wave,Rectangular pulse P-P (Peak to Peak) measurement (duty cycle 20% and above),Wide ohm range 0.2Ω~200MΩ
70	Digital LCR Meter	13	Microprocessor based Fully Automatic L, C, R & Q Measurement,Autoranging with Direct Digital Readout,250mA fuse,4 Terminal Measurement Technique,2 per second measuring update rate,1H-2000H (series mode), 200μH-1H (series mode) measurement ranges for basic accuracy range of inductance (q > 10),1μF-2000μF (series mode), 200pF-1μF (parallel mode) measurement ranges for basic accuracy range of capacitance (q > 10),1 ohm-2M ohm (upto 10K series mode & >10K parallel mode) measurement ranges for basic accuracy range of resistance (q > 10),0.25 to 4 measurement ranges for basic accuracy range of quality factor, Series of Parallel Equivalent Measurement.100Hz, 1KHz measurement ranges for basic accuracy measurement frequency,Special Mechanism for Fast and Easy
71	Bread Boards for circuit wiring and testing	14	Breadboard size: 3.3"L x 2.1"W,Weight: 2.08 oz. (0.13 lbs.)Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry,0.1" hole spacing,Pins are identified by numbered rows and columns Ideal for high frequency and low noise circuits,Use to breadboard and debug circuit designs Low static, plastic body - CMOS safe,Nickel-plated clips designed to withstand up to 5,000 insertion cycles,Breadboard strips connect together to form larger working areas,Components are easily interconnected using 20-28 AWG wire (P/N 19290 & P/N 20080),Terminal strips: 1,Bus strips: 2,Contact points: 400
72	Megger 500V	15	500v
73	Ammeter (0-10 mA), (0-50mA), (0-100mA) (table model)	16	1. 0-10 mA 2.0-50m A 3.0-100mA
74	Voltmeter (0-1V), (0-10V), (0-30V) (table model)	17	1. 0-1V 2.0-10V 3.0-30V
75	Different types and makes of Motherboards	18	as requied
76	CD Writers	19	speed max:CD-R 16x (CLV), 18x - 32x (P-CAV), 21x - 52x (CAV)
77	DVD writer	20	read speed 32x (CD) / 12x (DVD) write speed 24x (CD) / 4x (DVD±R)buffer size :2MB
78	External HDD	21	optical Hard disk with 80TB with usb port,speed 24*4rpm
79	Floppy Disk Drive	22	Floppy Disk Drive

80	CD ROM Drive	23	capacity:720 MB,raw bit rate:1.41 Mbits /s
81	Display card	24	Maximum VGA Resolution, 2048x1536
82	Ethernet card	25	IEEE 802.11b/g/n technology
83	Computer monitor 15"/17" of different types	26	1. 15 " with high resolution 2. 17" with high resolution
84	Cabinet with SMPS	27	as required
85	Keyboard and mouse	28	1. Multimedia keyborad 2. optical mouse with 3 button
86	Thumb drive (latest specification)	29	as required
87	Internal PCI modems of at least four different makes and types	30	as required
88	External modems of at least two different makes and types	31	as required
89	COMBO drives at least four different makes and types	32	as required
90	Dot matrix printer	33	Printing Output : B/W,Print Technology : Dot Matrix,Size : 9 wire, 80 column, 300 cps,Other Features : Selicon Self Lubrication Mechanism
91	Inkjet printer	34	Advanced Micro Piezo® with 8-channel, drop-on-demand, inkjet print head, Nozzle Configuration: 180 nozzles x 8, paper size a4,a5,a3
92	Laser printer (B&W)	35	Speed: Fast printing at up to 22ppm,Resolution: High quality print resolution of up to 2,400 x 600dpi; creating crisp, clear text and graphics in a snap,Paper Handling: 250-sheet large capacity tray for continuous and uninterrupted printing, and a manual by-pass slot for printing envelopes and letterheads,Cost-saving: To lower running costs further, high-yield replacement toner of up to 2,600 pages is available to meet the demand of high usage printing,
93	Scanner	36	Scanner type:Flatbed,Scan resolution, optical:Up to 4800 dpi,Task speed:10 x 15 cm (4 x 6 in) color photo to file (200 dpi, 24-bit, tiff): about 21 sec for single image scan,Scan size (flatbed), maximum:8.5 x 11.7 inch
94	UPS 500 VA	37	UPS,300 Watts /500 VA,Input 230V /Output 230V, Interface Port Optional Simple Signalling RS232 cable
95	Soldering iron	38	Material Type: Metal and Plastic,Suitable for soldering light gauze wires, thin metals and hobby work,Reaches working temperature in 2 minutes,Comes with 2 soldering tips,Power: 30 watts, Operating Voltage: 220 volts,Pin Head: Round Pin,Package Contents: 1-Piece Soldering Iron, 2 Soldering Tips and 1 Safety Stand1of 25watts
96	De-soldering pump/gun	39	Desoldering Pump is fitted with a Teflon Tip and is 13" long including tip. Durable corrosion resistant plastic construction. Precision metal plunger. Corrosion treated springs. Insulated vacuum pulse. Regulated return (1 millisecond ±30%). Uniform reset pressure (11in. lbs. ±20%)

97	Temperature controlled soldering/ desoldering station	40	MICRO PROCESSOR BASED PID CONTROLLED ,PROGRAMMABLE, DIGITAL SOLDERING AND DESOLDERING STATION WITH VERY EFFICIENT, DOUBLE CYLINDER & DC MOTOR PUMP Temperature controlled 230 v with accessories
98	Computer Tool kit for students	41	Able to open mobile phone, PDA housings, , NDS, MP3 player, etc. Excellent qlty stainless bits,Use For Mobile, Toys,Tvs, Etc, Sizes T5 T6 T8 T10 T15 +2.0 2.5 3.5 -2.0 3.0 Y3.0 U2.6 1.0 sharp bent
99	Screw Driver Set - Star/Flat of different sizes	42	1. star type set of different size 2 star type set of different size
100	Long Nose Plier	43	Double dipped handles for comfort,Suitable For :Pliers,Product type :Hand Tools,Nickel chromed for durability,Small Sized for Precision work
101	Combination Plier	44	84-168 Type: Pliers Comb Snap Ring Size: 152mm/6
102	Tweezer	45	Tweezer
103	Wire Stripper	46	Wire Stripper: Upto 4mm²,Cable Cutter : Upto 10mm & Upto 35 mm (Umang, Varun - 10, Tiger - 35, Chirag - 125, Chirag - 250)
104	IC Puller	47	IC Extraction Tool for chips with 24-40 pins, .6" Centers (Pitch).
105	Vacuum Cleaner	48	1 Forbes Trendy Steel Vacuum Cleaner, 1 Flexible Hose Pipe, 2 Extension Tubes, 1 Floor and Carpet Brush, 1 Crevice Nozzle, 1 Grill Brush, 1 Coat Brush, 1 Top Clean Adapter, 1 Spray Jar, 1 Car Wash Adopter, 1 Aromiser, 1 All Purpose Nozzle, 1 Upholstery Cl
106	Hand blower	49	fabricated from qualitative material such as mild steel, stainless steel, and aluminum, depending upon the kind of usage of blowers,Air Pressure 400 Mn,Air Volume 2.3 m³/min,No-Load speed 13000/min,Watts 335,Weight 1.8 Kg.
107	Hand Brush	50	small computer brush Suitable for: Camera, DC, DV, Computer, PAD, Lenses, CCD, COMS, Filters
108	Silicon grease	51	Silicon grease
109	Heat sink agent	52	Heat sink agent
110	RAM 512 MB	53	512MB
111	CPU different types	54	as requied
112	Microsoft Window 2000/ XP or latest	55	win 8.1 or latest with license
113	MS Office latest version	56	ms Office-2013 or latest with license
114	Anti virus latest version	57	total security with 3 year validity or latest with license
115	Computer Server Intel Pentium IV @ 3.2 GHz or higher, Intel Motherboard, 250 GB Hard Disk, 1.44 MB Floppy Disk Drive, 17" Colour Monitor, MS Mouse, Keyboard, DVD ROM, 2x512 MB RAM, Network Interface Card.	58	Computer Server speed @ 3.2 GHz or higher, Intel Motherboard, 250 GB Hard Disk, 1.44 MB Floppy Disk Drive, 17" Colour Monitor, MS Mouse, Keyboard, DVD ROM, 2x512 MB RAM, Network Interface Card.
116	8/16 port HUB/Switch	59	8/16 port HUB/Switch speed 10/100/1000 Mbps

117	ISDN Line (for Internet)/Cable broadband connection	60	
118	Network Interface Card	61	Interface (Bus) Type:PCI,Depth:5.7 in,Height:3.7 in,Weight:3.5 oz,Interface (Bus) Type:PCI,Form Factor:plug-in card,Ports:10/100 Ethernet,Connectivity Technology:wired:Cabling Type:Ethernet 100Base-TX, Ethernet 10Base-T,Data Link Protocol,Ethernet, Fast Ethernet,Data Transfer Rate:100 Mbps
119	Modem (Internal & External)	62	frequencies from 28.8k bps to 56k bps,RJ ports, 10 solts (Internal & External)
120	Switch	63	Backplane: 22-Gbps full duplex, Microprocessor 150-MHz R5000 RISC-Y2K compliant2 Kb of serial EEPROM,64 MB of SDRAM,16 MB of Flash onboard,128 KB of NVRAM,256 KB of boot ROM Dimensions (H x W x D) 3.46 x 17.5 x 18.77 in. (8.8 x 44 x 47.7cm),2 RUs1 in height Weight 22 lb (9.9 kg)
121	Router	64	Data Link Protocol 802.11 Super G, Ethernet, Fast Ethernet, IEEE 802.11b, IEEE 802.11g,Frequency Band 2.4 GHz, 2.4 GHz Data Transfer Rate 108 Mbps
122	Crimping tools for network cable	65	Termination suitable for 8P, 6P, 4P connectors,Equipped 8 P RJ-45, 6P RJ-12 & RJ- 11 connectors,Exceptional material properties & design,Sure lock blade holder,RoHS Compliant,EIA/TIA 568 A/ B,Technical Specification,Material : 7.5 inch steel construction body Suitable for 22 – 26 AWG wires Ratchet Mechanism
123	UTP cable	66	as required
124	RJ 45 connectors	67	RJ 45 connectors
125	Outlet points / Wall outlets	68	as required
126	Vacuum cleaner	69	1 Forbes Trendy Steel Vacuum Cleaner, 1 Flexible Hose Pipe, 2 Extension Tubes, 1 Floor and Carpet Brush, 1 Crevice Nozzle, 1 Grill Brush, 1 Coat Brush, 1 Top Clean Adapter, 1 Spray Jar, 1 Car Wash Adopter, 1 Aromiser, 1 All Purpose Nozzle, 1 Upholstery Cl
127	Microsoft Window 2000 Server or latest	70	Microsoft Window 2000 Server or latest with license
128	Network troubleshooting utilities	71	open source
129	Linux Server	72	open source
130	8-port HUB	46	8-port HUB 10/100/1000 Mbps speed
131	LAN Card	47	Interface (Bus) Type:PCI,Depth:5.7 in,Height:3.7 in,Weight:3.5 oz,Interface (Bus) Type:PCI,Form Factor:plug-in card,Ports:10/100/1000 Mbps Ethernet,Connectivity Technology:wired:Cabling Type:Ethernet 100Base-TX, Ethernet 10Base-T,Data Link Protocol,Ethernet, Fast Ethernet,Data Transfer Rate:100 Mbps
132	Wi-fi LAN Card both PCI and USB	48	Interface (Bus) Type:PCI,Depth:5.7 in,Height:3.7 in,Weight:3.5 oz,Interface (Bus) Type:PCI,Form Factor:plug and play card,Ports:10/100 Ethernet,Connectivity Technology:wired:Cabling Type:Ethernet 100Base-TX, Ethernet 10Base-T,Data Link Protocol,Ethernet, Fast Ethernet,Data Transfer Rate:100 Mbps
133	Adobe PageMaker	1	Academic latest with license

134	Corel Draw	2	Academic latest with license
135	Adobe Photoshop	3	Academic latest with license
136	Adobe Premiere	4	Academic latest with license
137	Sound Forge	5	Academic latest with license
138	3D STUDIO Max	6	Academic latest with license
139	Visual Basic	7	Academic latest with license
140	Connecting screwdriver 100 mm	1	100mm
141	Neon tester 500 V.	2	AC/DC voltage 500 v
142	Screw driver set (set of 5)	3	pack of 5 different size ,Insulated Screw Driver ,One Way PP Screwdriver Made of good quality chrome vanadium steel Special heat treatment Nice hardness and toughness
143	Insulated combination pliers 150 mm	4	Double dipped handles for comfort,Suitable For :Pliers,Product type :Hand Tools,Nickel chromed for durability,Small Sized for Precision work 150mm
144	Insulated side cutting pliers 150 mm	5	Insulated Double dipped handles for comfort,Suitable For :Pliers,Product type :Hand Tools,Nickel chromed for durability,Small Sized for Precision work 150mm
145	Long nose pliers 150 mm	6	Double dipped handles for comfort,Suitable For :Pliers,Product type :Hand Tools,Nickel chromed for durability,Small Sized for Precision work 150mm
146	Soldering iron 25 W. 240 V.	7	Material Type: Metal and Plastic,Suitable for soldering light gauze wires, thin metals and hobby work,Reaches working temperature in 2 minutes,Comes with 2 soldering tips,Power: 25 watts, Operating Voltage: 240 volts,Pin Head: Round Pin,Package Contents: 1-Piece Soldering Iron, 2 Soldering Tips and 1 Safety Stand
147	Electrician knife	8	Double Blade Electrician Folding Knife 1.Straight and Curved blade tool 2.Wide handle, good hold for big hand 3.Easy opening
148	Tweezers 100mm	9	100 mm
149	Soldering Iron Changeable bits 15 W	10	Material Type: Metal and Plastic,Suitable for soldering light gauze wires, thin metals and hobby work,Reaches working temperature in 2 minutes,Comes with 2 soldering tips,Power: 15 watts, Operating Voltage: 240 volts,Pin Head: Round Pin,Package Contents: 1-Piece Soldering Iron, 2 Soldering Tips and 1 Safety Stand with changeable bits
150	Crimping tool (pliers)	1	Termination suitable for 8P, 6P, 4P connectors,Equipped 8 P RJ-45, 6P RJ-12 & RJ- 11 connectors,Exceptional material properties & design,Sure lock blade holder,RoHS Compliant,EIA/TIA 568 A/ B
151	Magneto spanner set	2	Magneto spanner set with 8 spanners Metric, holded in a single pin joint.

152	Screw driver 150mm	3	150 mm lond ,Insulated Screw Driver ,One Way PP Screwdriver Made of good quality chrome vanadium steel Special heat treatment Nice hardness and toughness
153	Steel rule 150mm	4	Steel rule 150mm inch and metric Stainless Steel with Engraved readings.
154	Scriber straight 150mm	5	Scriber 150mm Hardened steel.
155	Soldering Iron 240W	6	Material Type: Metal and Plastic,Suitable for soldering light gauze wires, thin metals and hobby work,Reaches working temperature in 2 minutes,Comes with 2 soldering tips,Power: 15 watts, Operating Voltage: 240 volts,Pin Head: Round Pin,Package Contents: 1-Piece Soldering Iron, 2 Soldering Tips and 1 Safety Stand
156	Allen key set (set of 9)	7	Allen Key set of 9 pieces (2mm to 14mm) Hexagonal key, complete set.
157	Tubular box spanner (set of 6nos)	8	Tubular box spanner (set of 6nos)
158	Magnifying lenses 75mm	9	Magnifying glass 75mm Shatter ressistant type with protecting cover
159	Continuity tester	10	tester With measuring legs and insulated handle.
160	Soldering iron 10W	11	Material Type: Metal and Plastic,Suitable for soldering light gauze wires, thin metals and hobby work,Reaches working temperature in 2 minutes,Comes with 2 soldering tips,Power: 1 watts, Operating Voltage: 240 volts,Pin Head: Round Pin,Package Contents: 1-Piece Soldering Iron, 2 Soldering Tips and 1 Safety Stand
161	Cold chisel 20mm	12	Cold chisel 20mm* 250mm
162	Scissors 200mm	13	Scriber 200mm Hardened steel.
163	Handsaw 450mm	14	7 teeth per inch for quick cutting, clean edges,General-purpose saw,Hardened, tempered spring steel blade of 450mm
164	Laptop, Notebook	1	a)LAPTOP : forth generation 3.0GHz processor speed with 4MB Cache, 8GB DDR3/1600Mhz RAM, 1TB 5400RPM SATA Hard Drive, 15.6" LED Display, 2GB dedicated RAM , Wi-Fi, Blue-tooth, minimum 2 USB 3.0 & 1 USB 2.0 ports, Windows 8 or latest version OS b)NOTEBOOK : forth generation 3.0GHz processor speed with 4MB Cache, 8GB DDR3/1600Mhz RAM, 128GB SD HDD, 14" LED Display,2GB dedicated RAM , Wi-Fi, Blue-tooth, minimum 2 USB 3.0 & 1 USB 2.0 ports, Windows 8 or latest version OS
165	Intel Mobile Desktop based PC with LCD monitor	2	i3 2nd generation processor or above with major minimum features as below:- 1) Speed :- 2.1 GHz or Higher. 2)Cache Memory : - Minimum 3 MB or better. 3)RAM :- 4 GB DDR-III or Higher. 4)Hard Disk Drive :- 500GB or Higher,5400 rpm(minimum) or Higher, WiFi Connectivity. 5) Network Card : Integrated Gigabit Ethernet(10/100/1000). 6) Paper Licensed Operating System / OEM Pack(Preloaded). 7)Antivirus / Total Security

166	Tablet	3	Internal Storage 16 GB, processor : Dual Core A5, Full HD Recording at 1080 x 1920 (30 fps) Face Detection, Backside Illumination, Tap to Control Exposure for Video or Still Images, Photo and Video Geotagging, FaceTime HD Camera: 720p HD Video, FaceTime Video Calling Over Wi-Fi, iSight Camera: Auto Focus, Five Element Lens, Hybrid IR Filter, F/2.4 Aperture, Tap to Focus Video or Still Images, Video Recording: Video Stabilisation, Tap to Focus while Recording primary camera 5 megapixels
167	Printers: Laserjet, deskjet, passbook, mfd	4	Black and white , 1000 page, 20 ppm in A4
168	Network Printer	5	32MB Standard Memory, Resolution : Mono 600x600 dpi, Paper Size A4, Print speed (A4 Size): 25 ppm, 1 Page Out Time : 7 Sec., Port : 1 Hi-Speed USB 2.0, Network card 10/100, Duplexing, Windows 8 & Mac OS Compatible
169	5KVA online UPS	6	UPS,300 Watts /500 VA,Input 230V /Output 230V, Interface Port Optional Simple Signalling RS232 cable
170	LAN Cards, Wi-fi LAN Cards	7	Interface (Bus) Type:PCI,Depth:5.7 in,Height:3.7 in,Weight:3.5 oz,Interface (Bus) Type:PCI,Form Factor:plug-in card,Ports:10/100 Ethernet,Connectivity Technology:wired:Cabling Type:Ethernet 100Base-TX, Ethernet 10Base-T,Data Link Protocol,Ethernet, Fast Ethernet,Data Transfer Rate:100 Mbps
171	LCD/DLP Projector	8	Display Type: LCD, Light Output: 7000 Lumens, Warranty: 1 Year(s), Features: Auto power saving functions, Brilliant colour performance with 1.6x optical zoom lens, Multiple inputs and outputs, Audio: Mono, Life of Lamp - Full Usage: 3700 Hours, Life of Lamp - Standard Usage: 2700 Hours
172	Power Meter	9	ENERGY METER , ELECTRICTY CONSUMPTION METER , VOLT , WATTS , KWH , POWER METER
173	Crimping Tools	10	Termination suitable for 8P, 6P, 4P connectors,Equipped 8 P RJ-45, 6P RJ-12 & RJ- 11 connectors,Exceptional material properties & design,Sure lock blade holder,RoHS Compliant,EIA/TIA 568 A/ B,Technical Specification,Material : 7.5 inch steel construction body Suitable for 22 – 26 AWG wires Ratchet Mechanism
174	Computer Toolkits	11	32 Pieces PC Tool Kit Magnetic Screw Driver for PC, Laptop, Mobile etcScrewdriver Bit Model,T3, T4, T5, T6, T7, T8, T9, T10, T20,H1.3, H1.5, H2.0, H2.5, H3.0, H4.0,1.5, 2.0, 2.5, 3.0, 3.5,1.7, 2.0, 2.5, 3.0, 3.5, Y3.0,3.0, 2.0, 2.6
175	Computer Spares:	12	Cabinet with 14" display, 4GB DDR-3 memory, 1TB hard disk, battery pack, keyboard membrane, chargers
176	Motherboards (of different make)	13	as requied
177	Cabinets	14	as required
178	Processors (of different make)	15	as required
179	Hard Disk (500 GB or better) different types	16	as required
180	Optical Drives	17	as required

181	LCD/LED/TFT Monitors	18	19' LCD/LED/TFT Monitors with high resoulution
182	Pen Drives	19	as requied
183	External Hard disk	20	optical Hard disk with 80TB with usb port,speed 24*4rpm
184	External DVD Writer	21	read speed 32x (CD) / 12x (DVD) write speed 24x (CD) / 4x (DVD±R)buffer size :2MB , usb conned
185	Keyboards	22	Plug & Play,Keyboard Interface:USB 2.0, multimedia keyboard with minimum 108 keys
186	Mouse	23	Plug & PlayInterface:USB 2.0 optical , 3 button
187	Anti static pads	24	Electro-Static Discharge (ESD), 490 x 600mm in size, Compatible with 60cm anti-static wrist strap
188	SMPS	25	Compliant with ATX 12V. 20/24 pin Main Power Connector 20/24 pin Main Power Connector SATA Connectors-3 Pcs. Molex Connectors-2 Pcs 4 Pin ATX Connectors.-1Pc 120mm Smart Cooling Fan
189	Digital Multimeters	26	DIGITAL MULTIMETER Sensing AVERAGE LCD Display 3½ DIGITCounts 1,999.00 Model No. 63.00 Voltage Range (Volts) 200MV, 2V, 20V, 200V, 1000V (DC) 200, 750V (AC) Current Range (Amp) 200MA, 2MA, 20MA, 200MA, 10A Resistance (Ohm) 200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ Features * POWER: ONE 9V BATTERY, EVEREADY TYPE 216 OR EQUIVALENT * BATTERY LIFE: 200 HOURS TYPICAL * ACCESSORIES: SUPPLIED WITH A PAIR OF TEST LEADS, BATTERY (INSTALLED), INSTRUCTION MANUAL Power Input 216(9V) X 1
190	Blu-Ray drive and player	27	Serial ATA Interface,5.25 inch Form Factor,16x DVD+R Read, 24x DVD+R Write,48x CD-R Write,40x CD-RW Read, 24x CD-RW Write,DVD Rewriter,0.75 MB Buffer Memory
191	External Hard Disk	28	USB 3.0 and USB 2.0 compatibility, 500Gb or more capacity
192	Digital Camera	29	24.3 MEGAPIXELS DIGITAL SLR CAMERA WITH AF-S 24-85 VR LENS 16-GB CARD
193	HD Display	30	22" wide size, 1920x1080 resolution, 5ms response time, on screen Luminance, Image Setup, Color Temperature, Color Boost, Picture Boost, OSD Setup, Extra, Reset, Exit controls, 700"1 contrast ratio, 200Cd/m2 luminance, 16.7M color, 100-270VAC, 50 Hz power supply ,wi-fi connectvitiy
194	Network storage	31	Up to 75 Users,4-bay tower NAS with up to 16TB of storage capacity,Up to 25% higher data read & write performance with 4th generation tower NAS,2.13GHz dual-core Intel Atom D2701 Processor,Leading software application options included
195	Card Reader	32	Multi-in-one card reader, USB 2.0 compatible, SD & MMC SLOT: SD, Mini SD compatible

196	Game video card	33	Interface (Bus) Type:PCI,Depth:5.7 in,Height:3.7 in,Weight:3.5 oz,Interface (Bus) Type:PCI,Form Factor:plug-in card
197	Web Cam	34	Interpolated 8.0 Mega Pixel,High quality 5G wide angle lense,USB 2.0,4X Digital ZoomVideo Effects
198	Surround sound speakers	35	4.1 speaker system,Power Output RMS: 20W + (6W x 4),Impedance : 4 ohm,Frequency Response : Main Speaker - 40 Hz to 170 Hz, Satellite Speaker - 200 Hz to 20 KHz,Speaker Size : 4-inch Speakers and 3-inch Satellites (Magnetically Shielded),Controls Provided : Volume, Bass, FM Tuner and Selector Switch (CD/FM),Features: Magnetically Shielded, FM Radio, USB Playback, Remote Control, RCA jack(Input/Output)
199	Different types of memory cards	36	Different types of memory cards
200	Laptop kits	37	Laptop kits
201	Laptop spares: Cabinet with display, memory, hard disk, battery pack, keyboard membrane, chargers	38	Laptop spares: Cabinet with display, memory, hard disk, battery pack, keyboard membrane, chargers
202	SMPS Trainer kit	39	different from a conventional block diagram internal structures of different blocks are also shown. Switching Transformer and Chopper (the Heart of SMPS) are alsopresented to readily understand their operation and pin configuration. A low cost Training System demonstrating all basic concepts of SMPS In depth elucidation of Switching Transformer, which is one of the most important component of SMPS Variac can be connected with the kit Fault identification feature enabled Easy illustration of each block Designed with considering all safety standards Provided with a detailed Operating manual Technical Specifications Input : 80 to 230 VAC $\pm 10\%$, 50 / 60 Hz Outputs : +12 V DC regulated : -12 V DC regulated : +5 V DC regulated Switching Transformer Input : 320 V DC switching at 132 KHz Output : 30 VAC (approx) Fuse : 500 mA
203	UPS Trainer kit	40	different from a conventional block diagram internal structures of different blocks are also shown. Switching Transformer and Chopper (the Heart of UPS) are alsopresented to readily understand their operation and pin configuration. A low cost Training System demonstrating all basic concepts of ups In depth elucidation of Switching Transformer, which is one of the most important component of SMPS Variac can be connected with the kit Fault identification feature enabled Easy illustration of each block Designed with considering all safety standards Provided with a detailed Operating manual Technical Specifications Input : 80 to 230 VAC $\pm 10\%$, 50 / 60 Hz Outputs : +12 V DC regulated : -12 V DC regulated : +5 V DC regulated Switching Transformer Input : 320 V DC switching at 132 KHz Output : 30 VAC (approx) Fuse : 500 mA

204	Power electronics Trainer kit	41	Schering Bridge circuit with arms values,±12 VDC at 100 mA, IC Regulated Power Supply internally connected1KHz Sinewave oscillator having output 0-15 Vpp,Audio amplifier and speaker for null detector,Three unknown value of capacitors selectable by a band switch,Potentiometer for balancing the bridge,Band switch to select one from six different values of resistance,Adequate no. of other Electronic Components,Mains ON/OFF switch, Fuse & Jewel light,The unit is operative on 230V ±10% at 50Hz AC Mains,Adequate no. of patch cords stackable 4mm spring loaded plug length 1/2 metre,Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms,Strongly supported by detailed Operating Instructions, giving details of Object Theory, Design procedures, Report Suggestions and Book References,Weight : 3 Kg. (Approx.),Dimension : W 340 x H 110 x D 210210
205	Post error debugging card	42	PCI bus compatible, POST code display, Power On Self Test (POST) status codes, compatible with windows xp, vista & 8.0
206	SMPS Tester	43	Voltage test: +12V, -12V, +5V, -5V, +3.3V, 5V stand by (SB) 12V, power good (PG), Voltage Source: 20/24pin (ATX-connector), Voltage Test: +3.3V, +5V, +VSB, -5V, -12V and +12V.
207	PCI slot Testing tool	44	PCI slot Testing card, compatible with windows xp, vista & 8.0
208	Network Management Software	1	IEEE802.2 PROTOCOL STANDAND recovery software
209	Data recovery software	2	Recover & Save Permanently Deleted Files and Folders from Hard Drive, Supports formatted Partition recovery – FAT and NTFS Partition, Recover data from any Internal / External Storage Media, 3 Recovery Options: Recover Normal Data, Deleted Data, Formatted Partition, Recovery from Windows 8.1, Win 8, Win 7, XP, 2000 & below versions with licences
210	LINUX Server Operating System (Samba / Su-se)	3	open source
211	Open source Pc Utility / Tweak Software	4	Open source
212	Printer Table	1	Computer Table of size – 4 feet length X 2 feet width X 2.5 feet height. Computer Table top make of both sides pre-laminated board The edges of the compute table top to be covered with PVC beading.

213	Air conditioners (optional)	2	Split Air Conditioner, Capacity 1.5 Ton, Auto Clean/Blow Function, Cooling, R290 Refrigerant, Indoor Sound Level: 48 dB (A), Auto Mode, Sleep Mode and Turbo Mode, Air Purifier, Silver Ion Filter and Dust Filter, Front Panel Display: LED Display, Timer On/Off; Air Swing; Auto Clean; LCD remote control; Stepped Louvers, Energy Efficiency Ratio: 3.7 W/W, Indoor Dimensions: Width 940 mm Heigh 200 mm, Depth 298 mm, Net weight 17 kg Outdoor Dimensions: Width 820 mm Heigh 300 mm, Depth 540 mm, Net weight 41 kg with steblizer
214	Scanner	3	Scanner type:Flatbed,Scan resolution, optical:Up to 4800 dpi,Task speed:10 x 15 cm (4 x 6 in) color photo to file (200 dpi, 24-bit, tiff): about 21 sec for single image scan,Scan size (flatbed), maximum:8.5 x 11.7 inch(A4 paper size)
215	Multifunction Printer	4	Laser color printer,copier,scanner,a4-800 duty cycle,18 ppm speed, 600 x 400 dpi resolution, 400 MHz processor
216	ADSL Modem for Broadband connection	5	ADSL Modem for Broadband connection
217	Telephone Line	6	Telephone Line
218	Broadband Internet connection	7	Broadband Internet connection
219	Fire fighting equipments	8	fire extinguisher ABC 5 Kg specification 1.6mm,hydraulic test pressure 30 bar, temprature range 0-60 degree celcius, jet range 4mm max. period of discharge 25 sec, min discharge quantity 85%
220	Hardware and Network Trainer Kit	9	Hardware and Network Trainer Kit
221	Wireless Network Adapter	1	Wireless Network Adapter
222	Wireless Access Point	2	Data rates supported 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps, Network standard IEEE 802.11b and 802.11g, Receive sensitive etc
223	Router	3	Data Link Protocol 802.11 Super G, Ethernet, Fast Ethernet, IEEE 802.11b, IEEE 802.11g,Frequency Band 2.4 GHz, 2.4 GHz Data Transfer Rate 108 Mbps
224	Managed Layer 2 Ethernet Switch 8/16/24 port	4	Switch.managed,8/16/24/port x speed 10/100/1000Mbps + 2 x shared SFP,2 LAYER
225	Managed Layer 3 Ethernet Switch 8/16/24 port	5	Switch.managed,8/16/24 port x speed 10/100/1000Mbps + 3 x shared SFP,2 LAYER
226	Network Training System	6	Wired Network - 10 Mbps full duplex; 100 Mbps or higher recommended,Wireless Network - 802.11b; 802.11g recommended,No filtering of multicast (IGMP) or broadcast UDP or TCP packets,latest computer
227	LAN Protocol Simulation and Analyser Software	7	Different topology supported, 4 node ,different data rate and packet size,protocol, delay sensor,error detector etc supported
228	Network and Internet security trainer	8	Trainee borad have different circuit for different OSI model layer , LED for connectivity signal , no of LCD to show output , connectivity points for different layer
229	LAN cable tester	9	Cat-5,6 Cable Network LAN CableTester RJ11 & RJ45
230	Network cables – UTP	10	Network cables – UTP
231	Network Cables – coaxial, flat, ribbon	11	Network Cables – coaxial, flat, ribbon

232	LAN Cards, wi-fi LAN Card	12	Interface (Bus) Type:PCI,Depth:5.7 in,Height:3.7 in,Weight:3.5 oz,Interface (Bus) Type:PCI,Form Factor:plug-in card,Ports:10/100 Ethernet,Connectivity Technology:wired:Cabling Type:Ethernet 100Base-TX, Ethernet 10Base-T,Data Link Protocol,Ethernet, Fast Ethernet,Data Transfer Rate:100 Mbps
233	Connectors for cables	13	Connectors for cables RJ11 RJ 45
234	Power Meter	14	ENERGY METER , ELECTRICTY CONSUMPTION METER , VOLT , WATTS , KWH , POWER METER
235	Media Convertor	15	10/100Mbps Single-Mode Media Converter MC110CS Tplink
236	8/16/24 port UTP jack panel	16	Single Phase Power Distribution Unit
237	SC Couplers	17	Insertion Loss: <=2.0dB; Repeatability: <=0.1dB; Interchangeability: <=0.2dB; Working temperature: -40C~80C; Storage temperature: -40C~85C; Industrial standard: Bellcore TA-NWT-001209
238	SC Pigtails	18	PC, APC, UPC, SPC polishing; 100% optic test: Insertion Loss: ≤0.3 (PC); ≤0.2 (APC); ≤0.2 (UPC); ≤0.3 (SPC); 100% optic test: Return Loss: ≥45 (PC); ≥60 (APC); ≥55 (UPC); ≥50 (SPC)
239	Fluke Meter	19	Media Access; Copper : RJ-45: 10BASE-T, 100BASE-TX, 1000BASE-T and PoE (IEEE 802.3af and 802.3at); 100BASE FX and 1000, Media Access; Fiber : SFP Adapter Port supports 100BASE-FX and 1000BASE-LX/ SX/ZX, Cable Tests : Pair lengths, opens, shorts, splits, crossed, straight through and cable ID, Tone Generator : IntelliTone digital tone: [500 KHz]; analog tones: [400 Hz, 1 KHz], Display : 2.8 in color LCD (320 x 240 pixels), Keypad : 12-key elastomeric, LEDs : 2 LEDs (Link and Receive/Transmit indicators), Host Interface : USB 5-pin mini-B
240	Crimping Tools	20	7.5" steel construction body suitable for 22–26 AWG wires, ratchet mechanism, 8p8c/RJ45, 6p6c/RJ11 plugs
241	Switch with POE ports	21	Ports-24 RJ-45 connectors for 10BASE-T/100BASE-TX/1000BASE-T with 4 shared Gigabit SFP slots, PWR, Fan, Link/Act, PoE, Speed, RPS
242	POE adapters	22	IEEE 802.3af compliant,Auto-determine the necessary power requirements,Gigabit speed support,Plug-and-Play, requires no configuration
243	Network Camera (Outdoor / Indoor)	23	Sensor:CMOS,Sensor Size:1/3 Inch Color CMOS Sensor,Lens (mm):4mm@ F2.0,Viewing Angle (Degree):86°, 5 Video Frame Rate (FPS):50Hz:20fps (2048x1536), 5fps(1920x1080),25fps(1280x720);60Hz:20fps ,2048x1536),30fps(1920x1080),30fps(1280x720) 6 Environment:Indoor
244	Fibre Optics cable with LC connector	24	as required
245	LC connector module	25	LC connector module

246	WORKSTATION FOR MULTIMEDIA i700 (i7) PROCESSOR or Quad core or Higher 8 GB RAM 1 Terabyte HDD 22" TFT Monitor101 DVD OR BLU-RAY WRITER KEYBOARD/INTERNET USB Optical Mouse, USB Keyboard with latest license of OS	1	i700 (i7) PROCESSOR or Quad core or Higher 8 GB RAM 1 Terabyte HDD 22" TFT Monitor101 DVD OR BLU-RAY WRITER KEYBOARD/INTERNET USB Optical Mouse, USB Keyboard with latest license of OS
247	COLOUR LASER PRINTER	5	Speed(Mono) :Up to 16ppm in A4 (17ppm in Letter),First Print Out :Less than 8.5 seconds (From Ready Mode),Resolution:Up to 1,200 x 1,200dpi effective output,Duplex:manual
248	OPTICAL SCANNER (DESK TOP TYPE)	7	Scanner type:Flatbed,Scan resolution, optical:Up to 4800 dpi,Task speed:10 x 15 cm (4 x 6 in) color photo to file (200 dpi, 24-bit, tiff): about 21 sec for single image scan,Scan size (flatbed), maximum:8.5 x 11.7 inch(paper size A4)
249	WEB CAM (DIGITAL CAMERA)	8	Interpolated 8.0 Mega Pixel,High quality 5G wide angle lense,USB 2.0,4X Digital ZoomVideo Effects
250	DVD OR BLU-RAY WRITER	9	Serial ATA Interface,5.25 inch Form Factor,16x DVD+R Read, 24x DVD+R Write,48x CD-R Write,40x CD-RW Read, 24x CD-RW Write,DVD Rewriter,0.75 MB Buffer Memory
251	500 VA or higher off – line UPS FOR NODES and server	16	UPS,300 Watts /500 VA,Input 230V /Output 230V, Interface Port Optional Simple Signalling RS232 cable
252	Room temperature thermometer	22	Room temperature thermometer
253	Digital Still SLR Camera	24	24.3 MEGAPIXELS DIGITAL SLR CAMERA WITH AF-S 24-85 VR LENS 16-GB CARD
254	Digital Video Camera	25	12 MP Digital HD Video Camcorder ,CMOS Sensor ,2.4-inch LTPS LCD Screen ,Supports Both Manual & Auto Focus ,Self-timer off from 2 to10 seconds ,High-speed USB 2.0 Interface , Electronic Shutter Control ,4x Digital Zoom , Mini USB Charging Port ,Flash Memo• 4K XAVC S Format,Exmor R™ CMOS 1 (2.54 cm) Sensor,29.0mm Zeiss® Vario-Sonnar T* Lens
255	Adobe Photoshop (academic edition with 10 user license)	4	Academic latest with license
256	3D STUDIO Max (academic edition with 10 user license)	5	Academic latest with license
257	Adobe Flash (academic edition with 10 user license)	6	Academic latest with license
258	Adobe Dreamweaver (academic edition with 10 user license)	7	Academic latest with license

259	Adobe premier Suite (academic edition with 10 user license)	8	Academic latest with license
260	Front Page Editor (Academic edition with 10 user license)	9	Academic latest with license
261	Printer Tables	2	Computer Table of size – 4 feet length X 2 feet width X 2.5 feet height. Computer Table top make of both sides pre-laminated board The edges of the compute table top to be covered with PVC beading.
262	Steel cupboards drawer type	6	The overall size: 900mm(Wide) x 450mm(Depth) x 1830*mm(High). Rigid Knock down construction. with Panels made from Prime quality CRCA 0.6 mm thick & Front frame made from CRCA 0.8 thick Configuration (Door / Drawer): Smooth drawer movement with precision telescopic slider mechanism,An anti-rebound mechanism to prevent the drawer from coming out after it is pushed in An anti-tipping mechanism that allows only one drawer to be opened at a time to prevent toppling over of the cabinet, 4 drawer options
263	Cabinet with drawer	7	The overall size: 900mm(Wide) x 450mm(Depth) x 1830*mm(High). Rigid Knock down construction. with Panels made from Prime quality CRCA 0.6 mm thick & Front frame made from CRCA 0.8 thick Configuration (Door / Drawer): Smooth drawer movement with precision telescopic slider mechanism,An anti-rebound mechanism to prevent the drawer from coming out after it is pushed in An anti-tipping mechanism that allows only one drawer to be opened at a time to prevent toppling over of the cabinet, 4 drawer options
264	Steel almirah big size	9	The overall size of the storage shall be 916mm (W) x 486mm (D) x 1980mm (H). The contruction shall be welded construction with 0.7mm thick CRCA for shelf and 0.8mm thick for back. The door shall be made of 0.8mm thick CRCA and all other metal component shall be made of 0.9mm thick CRCA. The locking and handle of the storage shall be mazak handle with three way locking mechanism. The shelving shall be height adjustable and shall have a load capacity of 40kg. The product shall be epoxy powder coated to the thickness of 50 microns Colors : Prince Grey and Snowbell Grey

265	Steel almirah small size	10	The overall size of the storage shall be 100cm (W) x 150cm (D) x 45cm (H). The construction shall be welded construction with 0.7mm thick CRCA for shelf and 0.8mm thick for back. The door shall be made of 0.8mm thick CRCA and all other metal component shall be made of 0.9mm thick CRCA. The locking and handle of the storage shall be mazak handle with three way locking mechanism. The shelving shall be height adjustable and shall have a load capacity of 40kg. The product shall be epoxy powder coated to the thickness of 50 microns Colors : Prince Grey and Snowbell Grey
266	Screwdriver Set of min. 5 bits (Combination of star & minus) + 1 ext. rod	1	Minimum 5 screw driver blade in leather/plastic case
267	Crimping Tool for BNC and RJ-45 connectors	2	Termination suitable for 8P, 6P, 4P connectors, Equipped 8 P RJ-45, 6P RJ-12 & RJ- 11 connectors, Exceptional material properties & design, Sure lock blade holder, RoHS Compliant, EIA/TIA 568 A/ B, Technical Specification, Material : 7.5 inch steel construction body Suitable for 22 – 26 AWG wires Ratchet Mechanism
268	Punching Tool	3	Standard Krone type of tool, Terminates AWG 22-26 Solid or stranded wires, Tool included for pulling wires from patch panel. scissor to cut extra wires