



JSS Academy of Technical Education, Bangalore-60
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

List of Equipments & Instruments in the Department

As on date: 21-09-2016

Sl. No.	Particulars.	Qty.	Total Qty.	MAKE Model No.	Remarks
DC Potentiometer					
1	DC Potentiometer	1	3	OXFORD 1603	
	DC Potentiometer	2		TOSHNIWAL (TIPL) PL52N	
Standard Cell Box					
2	Standard Cell Box	1	1	OXFORD 1660	
Voltage Ratio Box					
3	Voltage Ratio Box	1	4	OXFORD 1660	
	Voltage Ratio Box	1		OSAW 30151(C)	
	Voltage Ratio Box with I/P of 1.5 Volts	2		OSAW 30151	
Dimmer start					
4	Dimmer start 15A, KVA	2	2	AEL 15D-IP	
Wire wound Rheostat					
5	Wire wound Rheostat 25 Ω , 5A, Single Tube	2	3	Toshniwal TIPL PL 12.01	From E & C Dept.
	Wire Wound Rheostat 25 Ohms/5A pen type Single Tube	1		TOSHINIWAL PL - 12.01	
Fixed Inductance Box					
6	Fixed Inductance Box	2	2	Rudrardhya	
Moving Coil/Iron Meters					
7	Moving Coil Galvanometer (50-0-50)G	1	38	MECO MR100	From E & C Dept.
	Moving Coil Galvanometer (50-0-50G)	2		MECO MR100 304689	
	Moving Coil Ammeter 5A/10A	4		AEL I.S,1248	
	Moving Coil Ammeter Portable type (0-5A/10A)	3		MECO--V ---	
7	Moving Iron Ammeter 0-1A/2A	2	38	MECO	From E & C Dept. Transferred to Talavady on 22/11/2005
	Moving coil Ammeter 0-100 μ A	3		MECO MR 100	
	Moving Coil Ammeter 0-50 mA	3			
	Moving Coil Ammeter 0-100 mA	3			

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	Moving Coil Ammeter 0-500mA	3			
	Moving Coil DC Voltmeter (0-5V) Portable	1		AE Portable IS 1248 401260	
	Moving Coil DC Voltmeter (0-30V) Portable	1		AEL Portable	
	Moving Coil DC Voltmeter (0-30V)	3		AEL Portable IS 1248 401266 & 315660	
	AE/port MSSB-1 Moving Coil DC Milli ammeter , (50-0-50 mA)	3		AE Portable IS 1248	
	AE/port MSSB-1 Moving Coil DC Micro ammeter (50-0-50 μ A)	3		AE Portable IS 1248	
	AE/port MSSB-1, Moving Coil DC Voltmeter, (0-30V)	3		MECO-V IS 1248	
8	Stop Clock (Second Timer)				
	Stop Clock (Second Timer)	1	1	ESAL	
9	Bridges				
	Kelvin's Double Bridge	1	17	OXFORD 1615	From E & C Dept
	Kelvin Double Bridge with 4 terminal Connector board	1		TOSHNIWAL (TIPL) PL39	
	Kelvin's Double Bridge	1		Toshniwal PL-33	
	Wheat Stone Bridge	1		OXFORD 1615	From E & C Dept.
	Wheatstone Bridge	2		TOSHNIWAL (TIPL) PL 32.03	
	Wheat Stone Bridge	1		Toshniwal PL-32-03	
	Maxwell Bridge	1		FRAX	From E & C Dept.
	Maxwell's Bridge with Head phone	2		OSAW 32051(A)	
	Maxwell bridge	1		OSAW 32051(A)	
	De-Sauty's Bridge for Comparing capacitive	1		OXFORD ---	
	Anderson Bridge for Self Inductance	1		OXFORD ---	
	Schering's Bridge with Head phone	2		OSAW 32501(D)	
Hey's Bridge with Head phone	2	OSAW 32501(C)			
10	RTD Set up				
	Resistance & Temperature (RT) Characteristics Measurement Set Up	1	3	S & S ---	
	RTD Tester:	1		IEI	

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				PT - 100		
	RTD Trainer Kit 0-100°	1		FRAX UITM-32		
	Oscilloscope (CRO) & DSO					
	Dual Trace Oscilloscope 20MHz	1		SCIENTECH 201		
	Dual Trace Oscilloscope 20MHz, 160V p-p, with built in continuity cum component tester with probes	6		SCIENTIFIC 201		
	Dual trace oscilloscope 20MHz with probes	9		Philips 095020P		
11	CRO - 20MHz , Analog scope dual trace external triggering sensitivity, 5V p-p, bandwidth DC-2MHz, other standard functions	5	32	SCIENTECH 201		
	CRO 20MHz, Dual channel with component test facility, User's manual & test probes	5		SCIENTECH 201		
	Oscilloscope-20MHz	4		LG 5020	From EC Dept.	
	TDS 1002,60MHz 2 channel monochrome scope DSO with Standard Accessories(DSO)	1		Textronics TDS1002		
	TDS 1002,60MHz 2 channel monochrome scope with Standard Accessories (DSO)	1				
	Dead Weight Tester					
12	Dead Weight Tester with complete standard accessories	1		1	RAVIKA DW14	
	Linear/Digital IC Trainer Kits					
	Linear IC Trainer Kits	10		ALS	From CSE dept. on 13-03-2002	
	Linear IC Trainer Kit with built in power supply	6		PC-LT-03		
	Linear IC Trainer kit : 8 - pins, 14-pins with built in power supply	5		FRAX		
13	Digital IC Trainer Kit with +5, ± 12V,GND power supply with 5 zip socket (16 pins, 40pins) with I/P logic switches, Display segment LED indicators, 1Hz to 1MHz clock cycle with bit connecting terminals	12	21	PEE CEE		
	Digital IC Trainer Kit with built in power supply	5		PC-DT-0E		
	Digital IC Trainer Kits,20,40 Pins Zip Sockets built in Power Supply	4		FRAX		
20	Digital Multimeter					
	3 ¾ Digit Digital Multimeter	3	46	MOTWANE		

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				DM375	
	RMS 4 ½ Digit Digital auto ranging Multimeter	1		APLAB 1087 4910	
	3 ½ Digit Digital Multimeter	9		MOTWANE DM375	
	3 ½ Digit Digital Multimeter	2		MOTWANE DM375	
	3 ½ Digit Digital Multimeter	5		MOTWANE DM 375	
	3 ½ Digit Digital Multimeter	5		MOTWANE DM 375	
	4 ½ Digit Multimeter with multi Display DM 4540 with set of leads	2		MOTWANE DM 4540	
	3 ¾ Digit Auto ranging multimeter with a set of leads	14		Motwane DM 3750B OR 3750	
	3 ¾ Digit Digital Multimeter	5		Motwane 3750D	
21	Testers				
	Thermocouple Tester	2	7	IEICOS J & K type	
	Thermister Tester	2		IEICOS	
	Temperature Trainer Module (AD590) with Manual	1		Using AD590 UITM-35	
	Thermister Trainer Kit 0-100°C±5V (NTC) (Temp. measurement trainer)	1		FRAX UITM-33	
	Thermocouple Kit 0-100°C -60mV (J-type) (Temp. measurement trainer)	1		FRAX UITM-31	
LCR – Q Meter					
22	Auto compute LCR – Q Meter	1	3	AP LAB 4910	
	LCR Q Meter (Variable measurement)	2		APLAB 4910	
23	Servo line AC Voltage Regulator				
	Servo line AC Voltage Regulator o/p 3.5 KVA	2	4	AP LAB 6343	01 No. Transferred to Talavady ITI on 22/11/2005 Sl. No.0299/21 Jss/IT/AEC/REG-I.06.13.02
Servo AC Voltage Regulator o/p 3.5 KVA	2	AP LAB 6343		01 No. Transferred to JSS High school, B' lore on 30-10-2009 Sl. No.0699/04 AEC/REG-I..14.40.04	
24	UPS				
	10 KVA Static Converter (Online UPS) System of 3 Phase Input, 1	1	2	Power – One Microsystems	From EC dept. on 2-8-2011

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	Phase Output with 30 mins. Backup				
	10 KVA, 3 phase input & 1 phase output online UPS system with 6EL Exide make tubular battery	1		--	From Maintenance Dept.
	DC Regulated power supply				
25	DC Regulated power supply (0-30V/5A) with Voltmeter (Digital)	4	55	AP LAB L3205	
	DC Regulated Power Supply 0-32V/2A	6		AP LAB L3202	
	DC Regulated Power Supply (0-30V/2A) with digital voltmeter & ammeter	2		AP LAB L3202	
	Regulated bench Dual type DC Regulated power supply (0-32V)/2A	8		AP LAB LD 3202	
	Triple o/p regulated DC Power Supply, (0-32V/2A), (5V/5A), ($\pm 12v$ to $\pm 15v$)	10		AP LAB LQ 6324	
	Multi output DC Power supply (0-30V), (0-5V) &,(0-15V)/1A	5		FRAX	
	Dual O/P DC Regulated Power Supply (0-30VDC/2A rating)	5		APLAB TD3202D	
	Fixed Power Supply $\pm 12V$, 1A	5		FRAX ---	
	Fixed power Supply + 5V, 2A	5		Aplab FL0502	
	SCR Phase control Power Supply O/P 15V to 300V / 1A	5		AP LAB H0310	
	Spot light deflection galvanometer				
26	Spot light deflection galvanometer	1	2	TOSHNIWAL (TIPL) PL64	
	Light deflection Galvanometer	1		Toshniwal PL-64	
	Function Generator				
27	Sine/Square Signal Generator (1Hz – 1MHz/20V) with digital frequency indicator	3	31	AP LAB	
	Analog Function Generator 1Hz to 1MHz 0.2V to 20V	7		SYSTRONICS 1014	
	Function Generators 3MHz with manual & probes	6		AP LAB	
	2MHz Function generator/counter with internal modulation	6		AP LAB 2011A	
	2 MHz AM/FM function pulse generator	4		SCIENTECH ST4062	
	10 MHz AM/FM function pulse generator/ with internal modulation	2		SCIENTECH ST4063	
	Function Generator (0.03Hz to 3MHz)	3		APLAB	

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				FG 3MG	
	Decade Capacitance Box				
28	Decade Capacitance Box (4 Dials) (10nF to 10 μ F)	3	33	LIFE Electronics DCB – 4D	
	Decade Capacitance box 5 dials 100 pF to 10 μ F	10		FRAX	
	Decade Capacitance Box (5 dials) (100pfd to 10 μ f d)	11		FRAX	
	Decade Capacitance (5 dials) (100pF to 10 μ F)	9		Retrack System MECO MR-100	
	Decade Inductance Box				
29	Decade Inductance Box (4 dials) (1H to 10H)	3	25	LIFE Electronics DIB – 4D	
	Decade Inductance Box 5 dials 100 μ H to 10H	5		FRAX	
	Decade Inductance Box (5 dials) (10 μ H to 1 0H)	11		FRAX	
	Decade Inductance Box (5 dials) (100 μ H to 10H)	6		RETRACK Sysyem 205-5 981040	
	Decade Resistance Box				
30	Decade Resistance Box (6 dials) (1 Ω to 1M Ω)	3	35	LIFE Electronics DRB-6D	
	Decade Resistance Box 5 dials 1 Ω - 100 K Ω	12		FRAX	
	Decade Resistance Box (6 dials) (1 Ω to 1 M Ω)	11		FRAX	
	Decade Resistance Box (6 dials) (1 Ω to 1 M Ω)	9		FRAX	
	Synchro Transmitter & Receiver				
31	Synchro Transmitter & Receiver Hand Operated drive Unit	1	3	IEI	
	AC Synchro Transmitter / receiver	2		LAXMI Control 2011A	
	Standard Cell Box				
32	Standard Cell Box (Weston Normal Type)	1	1	OSAW ---	
	Standard Resistors 0.1 Ohms	1		OSAW 29576	
	01 Ohms	1			
	10 Ohms	1			
	Linear Variable Displacement Transducer (LVDT)				
33	Linear Variable Displacement Transducer amplifier Trainer with (LVDT) 4 ½ Digit display	2	3	VIS	
	LVDT Trainer Kit Setup (0-25mV to 0-150mV)	1		FRAX UITM 02	

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Digit Digital Pressure gauge Indicator					
34	4 ½ Digit Digital Pressure gauge Indicator (0-50Kg/cm ²)	1	1	VIS	
LDR unit					
35	LDR unit light Source set up LDR demo kit)	1	2	IEICOS	
	Lamp Voltage (0-6V) LDR, Resistance (0-600 Ω)	1		FRAX	
Meters					
36	Resistance Meter	1	3	FRAX R.M	
	Opto Coupler	1		IEI ---	
	Pulse meter	1		IEI ---	
Lab view Full development Systems					
37	a. Lab view Full development Systems for windows 95/98/NT/2000 b. PCI = 6024 data Acquisition Board	1	1	National Instruments	Transferred from IT COMP Lab to IT PC Lab
Digital /Analog IC Tester					
38	Digital /Analog IC Tester 40pins for to test 74/54/40/45/93/96 series, EPROMS, RAMS, μP, O-pamp, Voltage regulators, Optocouplers, timers, AtoD & D to A converters etc.	1	4	TESTEL DA 40	
	Electronics Component Tester	2		MiniMax MMECT-20	
	Analog & Digital IC Tester with Power Supply ±5V, ±12V	1		MiniMax MME ADIT40	
Single Phase converter					
39	Single Phase converter Firing Unit for SCR with SCR converter modules	2	2	--	
Clippon Meter					
40	3 ½ digit range Clippon Meter 20A	1	1	MOTWANE DCM 30	Transferred from IT PC Lab to JSSATE Maintenance dept. on 12/-08-2006
Strain Gauge					
41	Cantilever Beam with Strain Gauge mounted & provision to apply 50Kg, with accessories: SS plate with chain hook & mounting clamp	2	6	VIS ST-310	
	Strain Gauge Kit	1		SYSCON SI-310	
	Strain Gauge 4 ½ & Full bridge with	1		IEI	

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	Digital Strain Gauge (Digital Strain Indicator)			221	
	Strain gauge cantilever beam type 70mV	2		FRAX UTIM-01	
	Load cell				
42	10Kg load cell with Pan & provision to apply load in steps	2	5	VIS	
	0-10 Kg Reaction type Torque Sensor kit With Cable & other accessories	2 sets		SYSCON SI-8016	
	Load Cell Trainer module (Load Indicator model No. 255)	1		IEI ML01-A	
	Transducer Unit				
43	Pressure Transducer Unit with Analog & Digital Pressure Indicator with Air Blower	2 Sets	7	IEICOS P.1	
	10Kg-cm Pressure transducer setup	1		FRAX UITM-05	
	Capacitive Transducer Variable area, distance Experiment Set-up (Capacitive Transducer for angular displacement measurement)	1		IEICOS MEAS CAPA	
	Capacitive Transducer setup Variable Area & Distance method (Capacitive displacement meter)	2		IEICOS C-D	
	Capacitive Transducer Setup	1		IEI ML27C	
	Digital Speed Indicator				
44	Digital Speed Indicator (Speed measuring Transducer)	2 Sets	2	IEICOS S-1	
	Vibration Analyzer				
45	Vibration Analyzer with solid state Oscillator amplifier	2 Sets	2	IEI 311	
	Digital Temperature Indicator				
46	3 ½ digit Digital Temperature Indicator max 200°C, 199.9 Ω	1	1	HCPL HI/IT/8005-I PT-100	
	Controllers				
47	Microprocessor based PID Controller	2	20	FRAX	
	Analog PID Controller	2		LAXMI ---	
	Digital Flow Controller (indicator)	2			
	Digital Temp Controller (indicator)	2			
	Digital Level Controller (indicator)	2			
	DC motor Speed Controllers	1		PCE PM-3	
	Programmable Logic Controller (PLC) with 20 I/P & O/P	2		VIMS	
	Temperature controller (on/off)	2		VIMS	01 No. Transferred to

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	Indicator range 500 ⁰ C with set indicator accuracy $\pm 1\%$ for full scale				Talavady ITI on 22/11/2005
	PC based PID Controller with Software (Study Trainer)	1		VIMS ITBPC 807	
	PC based controllers Flow Process Analyzers	1		VIMS VFPA 201	
	PC based controllers Temperature Process Analyzers	1		VIMS VTPA – F - 301	
	Temperature Process Analyzer with PC	1		IEI PC – TPCT CHIRAG Greenputers 1329Z, 931SN	
	PC based controllers Level Process Analyzers	1		VIMS VLPA 101	
	Printer				
48	Dot Matrix EPSON LQ 2070 Printer	1	5	EPSON LQ 2070	CSE-02Nos. EC-01No., IEM-01No.
	Dot Matrix EPSON LQ 2090 Printer	1		EPSON P364A FT8Y010835	
	hp Laser Printer	1		hp	From CSE Dept.
	HP Laser Printer P1007	1		HP Laser Jet P1007 CC365A	
	HP Laser Jet M1136 Printer PN: CE849A SN: CNJ8J20LBN	1		HP M1136	From CSE Dept. on 14-06-2016
	Computer				
49	Intel P -III 500 MHz Computer Accessories: Intel P –III 810 chipset board, 8.4GB hard disk, 64HBSD RAM, Santron 14” Monitor, Cabinet(Mercury), 1.44MB FDD, Logitech mouse, Speaker, Keyboard	Each 1		SAMSUNG Santron 45 Bn	From CSE Dept. on 20/07/2001 Transferred from COMP Lab to Principal office (JSSATE Main library)
	Computer ACER Desktop System	12	54	ACER	From CSE Dept.
	HCL Computer	17		HCL	From CSE Dept.
	DELL Computer	15		DELL	From CSE dept. on 6-11-2012
	HP Computer	10		HP Prodesk 400G2 MTPC	From CSE Dept. on 14-05-2015
	Air Compressor				
50	Air Compressor	1	1	CROMPTON GREEVES 5996	
51	DSP Starter Kits				

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	DSP Starter Kits	10	27	Cranes TMS320C5402- 8 Nos. TMS320C6711- 2Nos.		
	DSP Starter Kits with code composer studio	3		Cranes		
	DSP Starter Kit (DSK) TMS320C6713	10		Crane Software		
	DSP Trainer kit	2		VIMS Micro 50 EB	COMP Lab	
	DSP Trainer kit	2		VIMS Micro 50 EB	COMP Lab	
	Power Hand drilling machine					
52	Power Hand drilling machine	1	1	Super S1001A	From E&C Dept.	
	Interface Modules					
	LED Intensity Controller & wave generator	2	105			
	Push Button Switch Interface Board for counter RTC Stop Watch	2				
	Matrix Keyboard interface board	2				
	7 Segment Display board	2				
	ADC Interface board	2				
	Serial port Interface board (USART)	2				
	Stepper Motor Interface board	2				
	Logic Controller Interface Module	1			ALS NIFC-05	To Computer Lab
	Dual DAC Interface Module	1			ALS NIFC-06A	
53	8 Bit ADC Interface Module	2			ALS NIFC-07A	
	Keyboard/Display Interface Module	2			ALS NIFC-09	
	DAC Interface Module	2			ALS-NIFC-06A	
	ADC Interface Module	2			ALS-NIFC-07A	
	Logic controller Interface	3			ALS-NIFC-05A	
	Keyboard / display interface module	3			ALS-NIFC-09	
	LED Intensity controller	2			ALS-IFC-16	
	PIC Debug-87X PIC debugger	4			ALS	
	ALS-PIFC-01 Water level measurement Interface with Water Level Indicator (Water Bath)	1			ALS	
	ALS-PIFC-02 Temp. Controller Interface	1			ALS	
	ALS-PIFC-03 Load Measurement Interface	1		ALS		

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	ALS-NIFC-11 Traffic light Interface	2		ALS	
	ALS-NIFC-12 LCD Interface	3		ALS	
	ALS-NIFC-17 Elevator Interface	2		ALS	
	ALS-NIFC-37 DC Motor Control Interface with DC Motor	1			
	PIC-01-ADPTR-01 Adaptor card to Interface PIC-01 Board	2		ALS	
	Dual DAC I/F with User Manual	2		I/F DAC	
	Elevator I/F with User Manual	2		I/F ELV	
	Stepper Motor I/F with User Manual (Stepper Motor-3Kg CCN)	2		I/F STEP	
	DC Motor I/F with User Manual (DC Motor-12VDC, 14Watt) & Feedback ckt. For Speed Measurement	2		I/F DC Motor	
	TXDR I/F using PT 100 with ADC & User Manual	2		I/F TXDR ADC	
	Intelligent Universal Programmer, (Both USB & Parallel ports)	1		I/F ESAIUP-UXP & ESAUVE	
	ALS-PIC- 02 PIC M/C Board with Debugger	6		ALS	
	ALS-PCI-07 48 Lines D/I/O Card with Timer	5		ALS	
	µP Based Stepper motor Controller with 2 phase DC motor & Power supply	2		VIMS VBHB – 013A	
	Dual DAC I/F	1			
	8-bit ADC I/F	1		ALS-NIFC-07A	Transferred from IT PC Lab to JSSATE Maintenance dept. on 02-01-2007
	Logic Controller I/F	1		ALS-NIFC-05	
	Stepper Motor I/F With (I/F Card Motor)	1		ALS-NIFC-01A	
	Keyboard/Display I/F	1		ALS-NIFC-09	
	PIC Start Programmer Microchip Standard	2		ALS	
	6 Digit 7Segment Display with Calculator type KBD I/F & User manual	2		I/F-KBD-DISP	
	4X4 Matrix, Hex Keypad I/Fwith User Manual	2		I/F HEX KPD	
	LED Interface Module	1			
	ADC Interface Module	1			
	DAC Interface Module	1		---	
	Key Board /Display interface Module	1			
	Stepper Motor Module	1			
	Temperature Controller interface Module	1			

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54	Power Supply (5V/1.5A)				
	Power supply (5V/1.5A)	2	12	ALS	
	Power Supply (5V,1.5A)	4		ALS	
	Power supply (5V,1.5A)	6		ALS	
55	MATLAB SOFTWARE				
	MATLAB SOFTWARE Tools 7.1 MATLAB DVDKIT for PC & UNIX release R2007A (Sl. No. DVDALL07A)	25 Users		R2007A	
56	Xilinx				
	Xilinx Chip Scope Pro Integrated Logic (multi-user)	1		Silicon Gateway	
	Xilinx ISE Version of Software	1			
	Universal demonstration /Evaluation Board with Xilinx Spar ton FPGA Kits	15		Silicon Gateway	
57	Keil Software				
	Keil PK51-ED Software: C51 Professional Developer's Kit Version 8.0, Education License Package	4 Users & 4Free		Keil PK51-ED	
58	Logic Analyzer				
	Logic Analyzer & Pattern Generator	6		Silicon Gateway (P) Ltd.	
59	Micro controller 8051 Kits				
	PIC μ C Board with 40pin Zip Socket built in power Supply	10		ALS	COMP/ μ C ICD/62.04.01
	Microcontroller kit 8051	2		VIMS Micro 51EB	Verbal Order
	Microcontroller Simulator	1			
	ALS-PIC-02 PIC Micro Controller Board	4		ALS	
	Single chip MC Unit Trainer based on 89C51ED2 with Power Supply & user manual (8051 Kits- Single chip micro controller base board)	15		ESA MCB-51	
	Microcontroller kit 8051	5		VIMS Micro 51EB	
60	Projectors				
	EPSON Projector (LCD Projector) Accessories: CD EPSON, Power card, UGACABLE, DATACABLE, Remote with Cell ,LCD Carrying Bag, Catalog & Manual	1		EPSON EB-X6	

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	Benq Projector (LCD) M X 660				From Mech. dept. on 11-7-2013
	Hitachi CP – DX300-ES-DLP Projector 6657, 6507 & 6472	03		Hitachi DLP Projector	From CSE Dept. on
	GE Trainer DELUX2860 Over Head Projector	01			
	Vaccum Cleaner				
61	Euro clean Wet & Dry Vaccum Cleaner	1		Eureka Forbes	
	Spring Boards				
	Spring Board with springs	6			
62	Spring Board with 16 pins ZIP Socket – 1No. & Springs	12			
	Spring Board with 40 pins ZIP Socket – 1No. & Springs	2			
	Photo Diode Setup				
63	Photo Diode Setup	1		IEI ML31	
	Photo Transistor Setup				
64	Photo Transistor Setup	1		IEI ML30	
	Network Video Recorder				
	4-Channel, Real Time, Network Video Recorder ZKT ECO including Tax	01			
	ZK TECO IP Camera including Tax	01			
65	1 TB Western Digital hard disk for Recording including tax	01		--	
	Connectors and other accessories	01			
	Commissioning, Testing & Remote Viewing Software Installation	01			