

**GOVERNMENT I.T.I.BOYS**  
**ONGOLE ,PRAKASAM DISTRICT**

**NH:-16, Guntur Road ,OppMangamma Degree College,**

Sri.M.V.NageswaraRao  
PRINCIPAL

Cell No.6300998186

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**Requirement List**

Sl.No.	Trade	Name of the Machinery / Equipment	Specification	Company Name	Total Quantity	warranty
1	2	3	4	5	6	7
1	Electronic Mechanic	Dual DC regulated power supply	30-0-30 V, 2 Amps	ZEAL	2	3 Years
2	Electronic Mechanic	CRO Dual Trace	20 MHz (component testing facilities)	MICROSI L	2	3 Years
3	Electronic Mechanic	Signal Generator with Digital Display for Frequency Amplitude 25 MHZ	10 Hz to 100 Khz, 50/600 Ohms (output impedance)	SYSCO	1	3 Years
4	Electronic Mechanic	Battery Charger	Digital Battery Charger suitable for variable voltage range of 0 - 6 - 9 - 12 - 24 - 48 V, 30 A with all control knobs and accessories	ELETEC H	1	3 Years
5	Electronic Mechanic	Function generator ( DDS Technology (Sine, Square, Triangle, Ramp, Pulse, Serial Data, TTL and Modulation.)in 40MHz Frequency Counter	1 mHz -10 MHz Function-Pulse – Modulation Generator with Built in 40MHz Frequency Counter	METRO Q MTQ404 0	1	3 Years
6	Electronic Mechanic	Analog Component Trainer	Breadboard for Circuit design with necessary DC /AC power supply: Sine, Square, Triangle Modulating Signal Generator and Simulation Software	ADTRON -1055	2	3 Years
7	Electronic Mechanic	Milli Ammeter(AC)	Moving iron type, Range-200 A, Accuracy < 1 A	MECO-V	2	3 Years

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8	Electronic Mechanic	Milli Ammeter (DC)	Moving Coil type, Range-500 mA, Accuracy < 2 mA	MECO-V	2	3 Years
9	Electronic Mechanic	Op Amp trainer	Power supply 0-5 V (Variable) Sine wave : 10 Hz – 100 KHz Square wave : 10 Hz – 100 KHz Triangle wave: 10 Hz – 100 KHz	MINE (MI-A12)	1	3 Years
10	Electronic Mechanic	Digital IC Trainer	Breadboard for Circuit design with necessary DC Power Supply, Graphical LCD, Clock Frequency 4 different steps, Data Switches: 8 Nos, LED Display: 8 Nos. (TTL), Seven Segment Display, Teaching Simulation Software	MINE (MI-D02)	1	3 Years
11	Electronic Mechanic	Digital IC Tester	1. Test Range : TTL54/74 CMOS 40/45 Drive 2. Test Voltage : 5V/3.3V/3V/2.5 V>Selectable 3. Test Name : Average search time : <0.6 Sec. 4. Display : 16 Characters in 1 LCD 5. Power Source : DC 9V/ 500 mA adaptor or 2 X 9 V Batter x 2 (not include)	METRAV I (DICT-2040)	1	3 Years
12	Electronic Mechanic	Digital and Analog Bread Board Trainer	DC/AC Power Supply, Sine/ Square/ TTL Generator Data Switches, LED indication, LED Display: 8 in Nos Simulation/Teaching Content through software	VINYTICS	4	3 Years

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13	Electronic Mechanic	Computers in the assembled form (including cabinet, motherboards, HDD, DVD, SMPS, Monitor, KB, Mouse, LAN card, Blu-Ray drive and player), MS Office education version.	Intel i5, 10 <sup>th</sup> or Latest generation, 8 GB RAM, 1 TB HDD, 18.5 " Monitor, Key Board, Mouse and pre loaded soft wares (MS Office, Windows and Anti Virus and 3 Years onsite warranty	HP	2	3 Years
14	Electronic Mechanic	Frequency modulator and Demodulator trainer kit	FM Modulator Type : Reactance Modulator, Varactor Modulator, VCO Based Modulator FM Demodulator type All 5 demodulation techniques Detailed teaching and learning contents through software.	PM Enterprises	1	3 Years
15	Electronic Mechanic	Sensor Trainer Kit Containing following Sensors 1. Thermocouple 2. RTD 3. Load Cell/ Strain Gauge 4. LVDT 5. Smoke Detector Sensors 6. Speed Sensor 7. Limit Switch 8. Photo sensors 9. Optocoupler 10. Proximity Sensor	Graphical touch LCD with inbuilt processor for viewing the output waveforms, In built DAQ, and standard processing circuits like Inverting , Non – Inverting , Power, Current , Instrumentation Differential Amplifier, F/V,V/F,V/I,I/V Converter, <b>Sensors</b> :RTD,NTC Thermistor,LM35 Thermocouple, Gas(Smoke) Sensor, Load cell, LVDT Sensor, Speed Sensor	KRB (KRB-STK-01)	1	3 Years
16	Electronic Mechanic	LED TV (Trainer kit ) 21-inch full HD LED Color Television, PAL/ NTSC video formats, complete block diagram of a LED TV system , Study board indicating various sections of LED TV along with the test	Latest LED with all features like wifi, extra sources, etc., .....	VINYTICS	1	3 Years

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		points and switch faults Trouble shooting in different sections.				
17	Electronic Mechanic	POWER ELECTRONICS TRAINER with at least 6 no's of application board MOSFET Characteristics SCR Characteristics SCR Lamp Flasher SCR Alarm Circuit Series Inverter Single Phase PWM Inverter	Frequency 40 Hz to 900 Hz Input Voltage – 230V	PM Enterprises	2	3 Years
18	Electronic Mechanic	Laptop latest configuration	intel i7/10 <sup>th</sup> or Latest Generation./16 GB RAM / 1 TB SSD/ 15.6" Monitor, 2 GB Graphic Card with pre loadedsoftwares (MS Office, Windows and Anti Virus with warranty.	DELL	1	3 Years
19	Electronic Mechanic	DSO (Colour)	4 channels , 50MHZ Real Time sampling 1 G samples/Sec, 12Mpts Memory with PC interface USB, LAN and math function includes +,-,FFT,differential, Integral, abs, log etc.	GWINSTEK(GDS 1054B)	1	3 Years

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20	Electronic Mechanic	SMD Soldering & De-soldering Station with necessary accessories	Voltage 230 Volts Vattage : 75 , Temp. 150-450° C	QUICK7 06W	2	3 Years
21	Electronic Mechanic	PAM,PPM,PWM Trainer kit	20 KHz, Single Phase, 5 V DC	MANNU Enterpri ses	1	3 Years
22	Electronic Mechanic	Microcontroller Kit(8051) along with programming software(Assembly level programming )	Core 8051, ready to run programmer for at AT89C51/52 & 55, programming modes Keypad and PC circuits details learning content through simulation software	KITECH (M51-01)	2	3 Years
23	Electronic Mechanic	Fiber Optic communication Trainer	Full duplex analog & Digital Trans_Receiver with 660 nm & 950 nm ,noise generator with variable gain, four seven segment display BER counter, Eye pattern	VINAMR A Enterpri ses	1	3 Years
24	Electronic Mechanic	UPS Trainer	PWM switching Technology, test points to measure the voltages of different sections overall functioning of UPS Trainer, AVR Transformer, UPS with load condition	KRB	1	3 Years
25	Electronic Mechanic	Seven Segment DPM Trainer	10 M ohms , Display 3.5 Digit, Range Volated DC 200 m Vol.	ELETEC H (ELI-811)	2	3 Years
26	Electronic Mechanic	Solar Training Kit/Simulator	with bulit in meters for DCV,DCA,Acmultifunction meter (for ACI, ACV, power frequency) protection circuits BS-10 terminals for making the connection single /Dual axis tracking system charge controller:PWM based MPPT, charging stage:bulk Absorptions and float	RAMSO N LAB EQUIPM ENTS	1	3 Years

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27	Electronic Mechanic	Home theater system	5.1 or above latest Home Theater System	SONY	1	3 Years
28	Electronic Mechanic	DC Regulated variable programmable DC power supply	0-30v/3A	MULTIS COPE (PS-325)	2	3 Years
29	Electronic Mechanic	LCR meter (Digital) Handheld	3.5 Digit LCD with max. indication Auto Zero, Auto Polarity, Temp. 0 <sup>0</sup> – 40 <sup>0</sup> C power Supply , 9 V Zinc Carbon Battery	KM 954MK- 11	1	3 Years