

STANDARD LIST

MEDICAL EQUIPMENT TECHNICIAN

SECTOR	HEALTHCARE
SUB-SECTOR	ALLIED HEALTHCARE &PARAMEDICS
OCCUPATION	MEDICAL EQUIPMENT TECHNICIAN
REFERENCE ID	HSS/Q5601
Aligned to NCO-2004/ 3133.9	



State Council of Educational Research and Training(SCERT)

Vidyabhavan, Poojappura, Thiruvananthapuram - 695 012

www.scert.kerala.gov.in

This list of equipment, tool, furniture & consumables are prepared for a batch of students

Part A - Equipment			
Sl. No	Name	Specification	Quantity
1	Digital Storage Oscilloscope	Bandwidth : 0-50 MHz, 2 Channel, Memory depth : 25 kpts, TmeDiv Range : 2.5 NS to 50 S/Div, Display : LED	3
2	Digital Multimeter	DC Voltage :0 to 1000 V AC Voltage, averaging converter : 0 to 750V Resistance : 0 to 40 Mega Ohm Capacitance : 0 to 40 Micro Farad diode, transistor	6
3	Digital Clamp meter	High current AC measurement 1000Amp, Measurements DC/Ac voltage	6
4	Analog Multi meter	0-10 M Ω , AC&DC voltage : 0-1000v, Fuse Protection	2
5	Function generator	Band width : 0-10MHz, No of channel :1, Standard wave form : DC, Sine, Square, Triangular, Ramp, Pulse, DC Offset, Display : LED,	2
6	DC regulated power supply	Output voltage : 0-30 v DC, Current 0-2 Amp with triple output	2
7	Dual DC Power Supply	+15 - 0 - -15 V, 2 Amp	2
8	Soldering station	50 Watt, temperature accuracy +- 50 C (change	6
9	Soldering iron	25 Watt, chisel type bit	12
10	De soldering pump	Vacuum pump solder Remover	12
11	Soldering iron stand	With Metal Base	12
12	SMPS	400w power supply Unit	1
13	Suction Apparatus	Hospital Electric Suction unit with two collecting jars	1
14	Oxygen flow meter with	Oxygen valve with regulated oxygen	1

	humidifier and C-type cylinder	flow meter and Humidifier, Oxygen face mask	
15	Table top centrifuge	3500 RPM,8Tube with timer	1
16	Digital BP apparatus	Digital BP monitoring Apparatus	1
17	Glucometer		1
18	Digital thermometer	IR Thermometer/digital Thermometer	1
19	Portable OT Light		1
20	Nebulizer	With mouth piece,ChildandAdult Masks	1
21	Weighing Scale	Digital display	1
22	Vaporizer	3in 1 steam vaporizer	1
23	Infusion Pump	With Display and Battery backup	1
24	Autoclave	10L, Electric Autoclave	1
25	Cardiac Monitor	ECG Monitor	1
26	Pulse Oximeter	Pulse Rate, SpO2 Measurement	1
27	Laryngoscope	Manual with 3 blade	1
28	ECG machine	Single Channel Automatic ECG Machine with Battery and Charger	1
29	Compound Microscope	With Light, Cover,Monocular/Binocular	1
30	Photoelectric Colorimeter	With 8 filters and digital Display	1
31	Electrical Safety analyzer		1
32	Windows based Laptop	Minimum Core i5 Processor, 1 TB HDD, 8 GB RAM, Windows 10 Genuine	1

Part C - TOOLS and ACCESSORIES

Sl. No	Name	Specification	Quantity
	Screw Driver Set	Magnetic tip all standard size and shape. Flat with Neon Bulb	6 set each
	Screw driver with long	Star,Flat	6

	handle		
	Socket wrench set	10 piece set	1 set
	Wire stripper	Wire stripping Plier	6
	Combination plier	Heavy duty, 7inch	6
	Nose plier	Long Nose Pliers	6
	Crimping tool	LAN, Ethernet connector punch down tool	2
	File flat	With handle-12inch	2
	File round	With handle 12inch	6
	Precision knife	With inter changeable blade	6
	Allen key	All standard size	1set
	Adjustable Spanner	10 inches, 250mm	2
	Spanner set	All standard size(12pieces)	1 set
	Hammer metal small	Claw Hammer	1
	Hammer rubber	Soft Face hammer with handle	1
	Hacksaw Frame with blade	Metal frame	2
	Tweezers	Insulated Forceps Tweezers	6
	Bench vice	Steel Bench vice with fixed base	2
	Drilling Machine	450 watts	1
	Line tester	Steel tester	12

Part D - Consumables			
Sl. No	Name	Specification	Quantity
21.	General Extension Board	3 mts 3 core cable 3 nos switches 1 no Switch board with plastic box(10X4) 3nos 3 pin 5V Socket 1 no Indicator Switch 1 no 5V plug Top	10sets
22.	General 5V power	Transformer (12-0-12 V)	10 sets

	Supply	1 no Voltage Regulator ICs 7805, Heat Sink, Heat Sink Paste 1 no 50v 1000uf capacitor 1 no (LED, 1K Resistor, Bridge Rectifier IC, General purpose PCB) 1 no 2pin cable with plug 1 no Out put pin with cable, Connecting wire, Cabinet	
23.	Lead (solder)	50grms	10 nos
24.	Soldering Flux Paste	50 grms	10 pkts
25.	Desoldering Wick	5feet 3mm	10 pkts
26.	Insulation Tape	Rolls	10nos
27.	WD 40	Rest remover	1 bottle
28.	Wire sleeves	Multicolour packs	1 pkts
29.	Timer IC NE/SE 555		15
30.	OP-AMP IC 741 C		15
31.	Diode 1N 4007		120
32.	IC BT 151	SCR rectifier Thyristor IC	2
33.	Diac DB3	Diac trigger	5
34.	LED		30
35.	BT136	Triac	5
36.	Bread Board		15
37.	ECG Paper	50mmX20mm	15
38.	ECG Jelly	250ml	5
39.	Cuvette		1
40.	Standard Flask	100ml	1
41.	Beaker	50ml	2
42.	Xylene	500ml bottle	2
43.	Glucometer strips	Test Strips of 50 per packets	2
44.	Glucometer Needle	100 pieces per packet	1
45.	Cotton Wool	200grms	5

46.	Aurdino UNO board	Microcontroller: Microchip ATmega328P. Operating Voltage : 5 Volts. Input Voltage : 7 to 20 Volts. Digital I/O Pins: 14 (of which 6 can provide PWM output) SPPI: 1. Analog Input Pins: 6	6
47.	IR kit for Aurdino Board		6
48.	Temperature sensor LM 35		6
49.	LVDT trainer kit	Range: +- 10.mm,+ -50mm.+ -25mm,excitation voltage 1 to 4 KHz at 1 to 2V RMS,sensitivity: 0.1mm,system accuracy:1%	1
50.	Electrodes (needle, Surface electrode)		6
51.	IC MCT 2E Optocoupler	Input Diode Forward Voltage: 1.25V. Collector-Emitter Voltage: 30V. On-State Collector Current: 5mA. Transistor HFE: 300. Rise Time: 5us. Fall Time: 5us. Available as 6-pin PDIP with and without M-suffix.	10
52.	Isolation transformer		3
53.	OP-AMP kit	Input 230V AC,50Hz,output DC supply 0-5,+ -12V,on board IC 741-3 no,2 no.s digital meter for input/output voltage	6
54.	UV lamp	11W	6
55.	UV lamp choke	11W,230 V	6
56.	Toggle Switch		5

Part E – FURNITURE

<u>1</u>	Bed	Single cot for ECG	<u>1</u>
----------	-----	--------------------	----------

VIJISH K
Vocational Teacher in MOBME

SIBY MATHEW
Vocational Teacher in MOBME

SAJITH KAMAL
KIRLOSKAR MEDICAL



DIRECTOR
STATE COUNCIL OF EDUCATIONAL
RESEARCH AND TRAINING
VIDHYABHAVAN, POOJAPPURA
THIRUVANANTHAPURAM
KERALA

