



သိပ္ပံနှင့်နည်းပညာဝန်ကြီးဌာန

နည်းပညာ၊ သက်မွေးပညာနှင့် လေ့ကျင့်ရေးဦးစီးဌာန

၂၀၂၄-၂၀၂၅၊ ဘဏ္ဍာရေးနှစ်အတွက်

အိတ်ဖွင့်တင်ဒါခေါ်ယူခြင်း

၁။ သိပ္ပံနှင့်နည်းပညာဝန်ကြီးဌာန၊ နည်းပညာ၊ သက်မွေးပညာနှင့် လေ့ကျင့်ရေးဦးစီးဌာနရှိ အစိုးရနည်းပညာကောလိပ်များ၊ အစိုးရစက်မှုလက်မှုသိပ္ပံများ၊ အစိုးရနည်းပညာအထက်တန်းကျောင်းများ၊ စက်မှု၊ စိုက်ပျိုး၊ မွေးမြူရေးအထက်တန်းကျောင်းများနှင့် သက်မွေးပညာသင်တန်းကျောင်းများအတွက် လိုအပ်သော သင်ကြားရေးသုံးသင်ထောက်ကူစက်ပစ္စည်းများ၊ ရုံးသုံးစက်ကိရိယာများနှင့် ပရိဘောဂများအား မြန်မာကျပ်ငွေဖြင့် ဝယ်ယူလိုပါကြောင်း ဖိတ်ခေါ်အပ်ပါသည်။

၂။ အိတ်ဖွင့်တင်ဒါပုံစံများကို (၂၃-၄-၂၀၂၄)ရက်နေ့မှစ၍ (၆-၅-၂၀၂၄)ရက်နေ့အထိ ရုံးချိန်အတွင်း အစိုးရနည်းပညာကောလိပ်(မန္တလေး)၊ အစိုးရစက်မှုလက်မှုသိပ္ပံ(နေပြည်တော်)နှင့် အစိုးရစက်မှုလက်မှုသိပ္ပံ(အင်းစိန်)တို့တွင် ဝယ်ယူနိုင်ပြီး (၂၉-၄-၂၀၂၄) ရက်နေ့မှ (၇-၅-၂၀၂၄) ရက်နေ့ထိ ညနေ(၄:၀၀)နာရီနောက်ဆုံးထား၍ အိတ်ဖွင့်တင်ဒါပုံစံဝယ်ယူခဲ့သောကျောင်းသို့ တင်ဒါများတင်သွင်းရမည်ဖြစ်ပါသည်။

၃။ အဆိုပါသင်ကြားရေးသုံး သင်ထောက်ကူစက်ပစ္စည်းများ၊ ရုံးသုံးစက်ကိရိယာများနှင့် ပရိဘောဂများအား သက်ဆိုင်ရာဌာနနှင့် ကျောင်းများသို့အရောက် ပေးပို့တပ်ဆင်ပေးနိုင်ရမည်။ လိုအပ်ပါက နည်းပညာဆိုင်ရာသင်တန်းပေး ဆောင်ရွက်နိုင်ရမည်။

၄။ အိတ်ဖွင့်တင်ဒါလျှောက်လွှာပုံစံ၊ စည်းကမ်းချက်များနှင့် အသေးစိတ်အချက်အလက်များကို ရုံးချိန်အတွင်း ဖုန်းနံပါတ်-၀၆၇၃၄၀၄၅၀၅/ ၀၆၇၃၄၀၄၃၈၉/ ၀၆၇၃၄၀၄၄၅၆(ဦးစီးဌာန၊ ရုံးချုပ်)၊ ၀၉၇၇၆၆၈၀၂၃၈ အစိုးရနည်းပညာကောလိပ်(မန္တလေး)၊ ၀၉၈၈၇၆၄၅၅၈၀ အစိုးရစက်မှုလက်မှုသိပ္ပံ(နေပြည်တော်)နှင့် ၀၉၄၀၁၀၈၄၀၉၃ အစိုးရစက်မှုလက်မှုသိပ္ပံ(အင်းစိန်) တို့တွင် ဆက်သွယ်စုံစမ်းနိုင်ပြီး Website ဖြစ်သော www.dtv.gov.mm တွင်လည်း ဝင်ရောက်ကြည့်ရှုနိုင်ပါသည်။

နည်းပညာ၊ သက်မွေးပညာနှင့် လေ့ကျင့်ရေးဦးစီးဌာန



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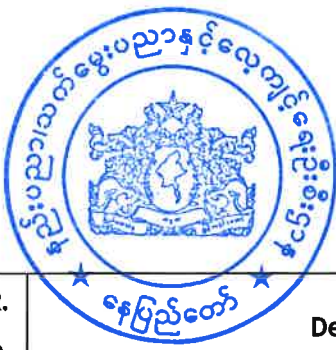
၂၀၂၄-၂၀၂၅ ခု၊ ဘဏ္ဍာရေးနှစ် ငွေလုံးငွေရင်းအသုံးစရိတ် (စက်ပစ္စည်း) မှ တင်ဒါခေါ်ယူထားသည့်
 ပစ္စည်းများအတွက် တင်ဒါအာမခံကြေးနှင့် တင်ဒါဖောင်ကြေး

စဉ်	ဘာသာရပ်	တင်ဒါ အာမခံကြေး (ကျပ်)	တင်ဒါ ဖောင်ကြေး (ကျပ်)
1	Electronics Engineering Test Equipment	၁၁၀ သိန်း	၁၅,၀၀၀
2	Electrical Power Engineering Test Equipment	၁၇၅ သိန်း	၁၅,၀၀၀
3	Information Technology Equipment	၉၅ သိန်း	၁၀,၀၀၀
4	Mechanical Engineering Test Equipment	၃၆၀ သိန်း	၅၀,၀၀၀
5	Industrial Engineering Test Equipment	၃၃ သိန်း	၁၀,၀၀၀
6	Civil Engineering Test Equipment	၁၇၀ သိန်း	၁၅,၀၀၀
7	Farm Machinery	၆ သိန်း	၅,၀၀၀
8	Refrigeration & Air Conditioning Test Equipment	၆ သိန်း	၅,၀၀၀
9	Automotive Technology	၁၂၀ သိန်း	၁၅,၀၀၀
10	Electrical Engineering Industry	၆ သိန်း	၅,၀၀၀
11	Building Technology	၂၄၀ သိန်း	၃၀,၀၀၀
12	Electrical Technology	၂၃၀ သိန်း	၃၀,၀၀၀
13	Machining Technology	၂၀၀ သိန်း	၁၅,၀၀၀
14	Electronics Technology	၁၁ သိန်း	၁၀,၀၀၀
15	OFFICE Equipment	၃၇၀ သိန်း	၅၀,၀၀၀
16	Furniture	၃၂၀ သိန်း	၅၀,၀၀၀



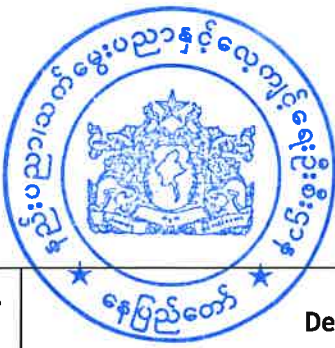
1. Electronics Engineering Test Equipment

SR. NO.	Description	Specification
1	Analog Multimeter	AC Voltage : 10V /50V/250V/1000V DC Voltage : 2.5V/10V/50V/250V/1000V DC Current: 100uA/2.5 mA/25mA/250mA/2.5A Resistance :1/10/100/1k/10k
2	Digital Multimeter	DC Voltage: 60mV~600V, AC Voltage: 60mV~600V, DC Current: 600uA~10A, AC Current: 600uA~10A, W: 600W~6MW
3	Variable DC Power Supply	Product Type : APS DC power supply Product Weight : 3.9KG Product size : 150 × 160 × 260 (L × W × H) mm Specifications Rated output value Voltage : 0 ~ 30V Current : 0 ~ 5A Voltage Regulation Line regulation : ≤ 0.05% +3 mV Load regulation : ≤ 0.1% +3 mV (rated current ≤ 3A) ≤ 0.1% +5 mV (rated current > 3A) Ripple noise : ≤ 3mVrms (5Hz ~ 1MHz) Current regulation Line regulation : ≤ 0.2% +3 mA Load regulation : ≤ 0.2% +6 mA
4	Analog Lab Unit	Fixed DC: +5V, +12V, -12V Maximum Current Output: 0.3A Dual DC Power Supply: 0 ~ +25V and 0 ~ -25V adjustable AC Power Supply Voltage Range: 2V-0V-2V, 12V-0V-12V, 15V-0V-15V Maximum Current Output: 500mA Function Generator: Output Waveform: Sine, Square, Triangle and TTL Output Frequency: up to 100KHz in five steps



1. Electronics Engineering Test Equipment

SR. NO.	Description	Specification
5	Analog Communication	Amplitude Modulation(AM)Transmitter and Receiver Single-Sideband (SSB) Transmitter and Receiver Frequency Modulator (FM) Phase Modulator (PM) Quadrature Detector (FM demodulation) Phase-Locked Loop (PLL) PLL FM Detector
6	Digital Communications 1	Pulse-Amplitude Modulation PAM Time-Domain Multiplexing Pulse-Time Modulation (PWM and PPM) Pulse-Code Modulation and Time-Division Multiplexing of PCM Signals Delta Modulation Channel Effects operation and function Sampler, Sample/Hold, Adder, Ramp Generator, Comparator, Limiter, Filter, CODEC, PLL, Compressor, Expander,Integrator,Differentiator,Latched Compare, Speaker Amplifier, Channel Simulator
7	Digital Communications 2	NRZ, RZ, and Manchester Encoding and Decoding Clock Synchronizer Frequency-Shift Keying (FSK) Generation FSK Asynchronous and Synchronous Detection Phase-Shift Keying (PSK) Generation PSK Asynchronous and Synchronous Detection Amplitude-Shift Keying (ASK) Generation ASK Asynchronous and Synchronous Detection Channel Effects FSK Modem The circuits found on this board include: Line Encoding Modulators Channel Simulator Sync Detector Modem



1. Electronics Engineering Test Equipment

SR. NO.	Description	Specification
8	Fiber Optic Communications	FACET base unit or stand-alone operation Interface with the 32-Bit Microprocessor module ST connections Multimode 62.5/125 cm cable High-speed 820 nm transmitter Integrated PIN photodiode and trans-impedance receiver Digital and analog communications channels Full handshake RS232 interface using time-division multiplexing (TDM) and Manchester coding On-board microphone and speaker Built-in microphone amplifier, power supply, audioamplifier and photo transmitter LED block
9	Quadrature Phase Shift Keying (QPSK), Offset Quadrature Phase Shift Keying (OQPSK), Differential Phase Shift Keying (DPSK)	NRZ Generator S/P Converter & Delay DPSK Encoder Power Supply/Regulator Channel Simulator Carrier & Phase Shift QPSK Modulator_I QPSK Modulator_Q Adder DPSK Decoder QPSK Demodulator_I QPSK Demodulator_Q Amplifier P/S Converter
10	Antennas Trainer	(basic panel with generator, Lecher line, RF detector, mobile receiver, joint for fixing to the base, supporting base for receiver, reflector, locking knob, shielded connecting cable between the Lecher line and the detector with banana plugs, diam. 2 mm (length = 60 cm), set of cables for measuring and connections, coaxial support for antenna (mast) with turning base, 'T' BNC, set of 5 monopoles with banana terminations, different lengths, ground plane antenna, Yagi antenna, folded dipole antenna, simple dipole antenna, coaxial cable RG59 with F/F BNC, length = 60 cm complete with M/M and F/F adapters. Frequency: from 860 to 950 MHz. Input power supply: - 15 Vdc, 200 mA)



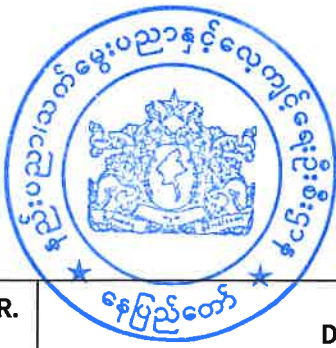
1. Electronics Engineering Test Equipment

SR. NO.	Description	Specification
11	LOGO! 8 Module and LOGO! Power Supply	LOGO!: 12/24 RCE Logic Module Logic module with display Logo Power supply: 24 V AC/DC/relay 8 digital inputs (4 usable as analogue) 4 digital outputs Memory: 400 blocks
12	Access point	10/100/1000 Ethernet Ports, 48V, 0.5A Gigabit PoE Adapter, 2.4 GHz, 5 GHz, 802.11 a/b/g/n/ac, WEP, WPA-PSK, WPA-Enterprise, Wall/Ceiling Mounted Type
13	Fiber optic cable ethernet converter	Complies with IEEE802.3 (10BASE-T) and IEEE802.3u (100BASE-TX/FX) standards Electrical port supports Auto-Negotiation for 10Mbps or 100Mbps, full duplex or half duplex data. Automatic MDI/MDI-X crossover Distances up to: 2 km Multimode, 25-120 km Single Mode ST, SC, FC LC, SFP Slots optical connectors AC/DC powered Status LED's for TX, FX LINK/ACT, POWER, 100M to easily monitor network status
14	Arduino UNO Kit	
15	Manual Base Unit With Built In Power Supply	Power Requirements Service Installation- Standard single-phase ac outlet Voltage - 100-250 V ac Current - 0.4-0.65 A Frequency - 50/60 Hz Physical Characteristics Intended Location- On a table able to support the weight of the equipment Dimensions(H x W x D)- 152 x 305 x 356 mm (6 x 12 x 14 in) Net Weight- 3.1 kg (6.9 lb)



1. Electronics Engineering Test Equipment

SR. NO.	Description	Specification
16	Programmable Logic Controller S7-1200 with Desktop Computer	CPU 1215 (AC/DC/RLY) Power Supply: AC 85–264 V AC at 47–63 Hz Output Type: 10 Bits Relay outputs. Digital Input: 14 Bits 24V DC Inputs. Analog Input: 2 Channels Analog 0–10 V DC input. Analog Output: 2 Channels Analog 0–20 mA DC output. Storage: Program/data memory 125 KB Communication interface: 2 PROFINET ports Desktop Intel Core i7 processor 8 GB DDR4 2666 MHz Memory 1TB 7200rpm SATA Hard Disk Drive (or) 512GB SSD NVIDIA GeForce® GT 730, 2GB Graphic Windows 10 (64bit) Keyboard and Mouse Monitor : 24-inch 1250 VA UPS Capacity (1250 VA) Build in Power Factor 0.65 input 140~275 Volt
17	LOGO ! 8 with Desktop Computer	LOGO!: 12/24 RCE Logic module with display Power supply: 24 V AC/DC/relay 8 digital inputs (4 usable as analogue) 4 digital outputs Memory: 400 blocks Desktop Intel Core i7 processor: 8 GB DDR4 2666 MHz Memory 1TB 7200rpm SATA Hard Disk Drive (or) 512GB SSD NVIDIA GeForce® GT 730, 2GB Graphic Windows 10 (64bit) Keyboard and Mouse Monitor : 24-inch 1250 VA UPS: Capacity (1250 VA) Build in Power Factor 0.65 input 140~275 Volt Output 195~245 Vac Backup Time 16 minutes~25 minutes Frequency 45~55 Hz Battery 2x12 V 8.2Ahm



1. Electronics Engineering Test Equipment

SR. NO.	Description	Specification
18	LOGO! Power Supply	Stabilized power supply Input: 100-240 V AC 1 phase Output: 24 V DC/4 A 96 watts Protection class: IP20 DIN rail mounting
19	PIC Programmer MikroElektronika Easy PIC V7 with Desktop Computer	7th Generation, 8-Bit A/D Converter, 8-Bit D/A Converter, USB, External, DIP&SMD, 128x64 Graphical LCD, 16x4 Character LCD Desktop Intel Core i7 processor: 8 GB DDR4 2666 MHz Memory 1TB 7200rpm SATA Hard Disk Drive (or) 512GB SSD NVIDIA GeForce® GT 730, 2GB Graphic Windows 10 (64bit) Keyboard and Mouse Monitor : 24-inch 1250 VA UPS: Capacity (1250 VA) Build in Power Factor 0.65 input 140~275 Volt Output 195~245 Vac Backup Time 16 minutes~25 minutes Frequency 45~55 Hz Battery 2x12 V 8.2Ahm
20	Cisco Router	4 ports router Supports Gigabit Ethernet, PoE, PoE+ Networking Memory: 4 GB RAM, Flash Memory: 4 GB, Ports/Connectors: (4)GE LAN,(1)GE WAN,(1)GE/SFP combo WAN,Integrated USB 3.0 AUX/console, Routing Protocol: OSPF, EIGRP,GRE,HSRP,IGMPv3,IS-IS,PIM-SM,PIM-SSM,PBR,RIP-1,RIP-2,RSVP,Static routing, VRRP,BGP, Bidirectional Forwarding Detecting(BFD), DVMRP, Remote Management over SNMP, RMON, SYSLOG, CLI, Telnet Protocols: Networking Protocol,Remote Management Protocol Supports IEEE 802.11a/b/g/n/ac Wave 2, IEEE 802.11g, IEEE 802.11n, DHCP, DNS, IPSec, Ethernet, Fast Ethernet, Gigabit



1. Electronics Engineering Test Equipment

SR. NO.	Description	Specification
21	Function Generator	Complete dual channels function/arbitrary waveform generator Channel independence, coupling, track working mode 200 MSa/s sampling rate and 14-bit vertical resolution per channel Output of 6 standard waveforms, built-in 50 kinds of arbitrary waveform Multi modulation function: AM, DSSC – AM, FM, PM, PWM, FSK, ASK BPSK and logarithm/linear sweep
22	Digital Storage Oscilloscope	2 Channel Bandwidth 100 MHz



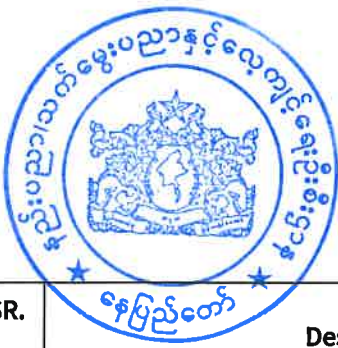
2. Electrical Power Engineering Test Equipment

SR. NO.	Description	Specification
1	Digital Logic Trainer	SL-EE-358, Basic and Advance Modules Fixed regulated DC power supplies : +5V, +15V, -15V, variable 1.5 ~ 15VDC Logic indicators : 16 logic indicator Data switches : 16 (for TTL & CMOS) Toggle switches : 4 (SPDT) Push buttons : 3 (2NO, 1NC) Pulsers : 2 pulsers (A,A and B,B) Seven segments : 4 seven segment digital displays Clock generator : 1Hz ~ 100kHz Test leads : 1 set of stackable 2mm test leads
2	Resistance Decade Box	Variable from 1 to 10 Mohms Resistance
3	Capacitance Decade Box	100 pF to 11 μ F Capacitance
4	Inductance Decade Box	0.01mH to 10H Inductance
5	Analog Multimeter	DCV - 0.1(20k Ω /V)0.25/2.5/10/50 (20k Ω /V)/ 250/1000V (9k Ω /V)YX 360 TRF, ACV-10/50/250/750(9k Ω /V), Resistance-2k/20k/200k/2M Ω (x1/x10/x100/x1k) 200M Ω (x100k) Test leads conveniently store in case
6	AC Power Supply	AC 0 to 300V variable AC with display
7	AC Voltage Regulator	0-500V, 3000W, 50Hz
8	Professional KNX Trainer Set	KNX Power supply, 30V, 38.4watt, 640mA Dimmer Actuator-2ch, Shutter Actuator-2ch, Touch Button-8 fold Binary Input -4 channel KNX Comfort Touch Screen Universal Interface with laptop i7 series,10th gen, ram8GB, graphic 2GB,ssd 512GBHD,Dell USB Cable Interface KNX to PC, 5 mtr Motorized Blind Controlled by Motor
9	Earth Tester	Earth Ground Resistance Tester, Digital, Test Voltages of 0 to 2000 Ω
10	Megger Tester	Digital, Handheld Insulation Resistance Tester, Test Voltages of 100 V, 250 V, 500 V, 1000V, Large digital LCD display
11	Voltmeters	0-30) V (Moving Iron Type)
12	Voltmeters	(0-300) V (Moving Iron Type)



2. Electrical Power Engineering Test Equipment

SR. NO.	Description	Specification
13	Voltmeters	(0–600) V (Moving Iron Type)
14	Ammeters	0–50mA, 0–100mA, 0–250mA, 0–500mA, 0–1A 0–2A, 0–5A, 0–10A, 0–20A, 0–30A, 0–50A, 0–100A (Moving Iron Type)
15	Wattmeters	Wattmeters, Analog 10A, 300 V UPF (Electrodynamometer Type)
16	Wattmeters	Wattmeters, Analog (10 A, 600 V) LPF (Electrodynamometer Type)
17	Rheostat	Rheostats: Open, Round Single Tube slide, 0.5–12000 W , 0.1–200 A (Wire wound Type)
18	Tachometer	Handheld (0–10,000) rpm (Digital Type)
19	Motor–Generator Set–Up with Flywheel	MV 1028 DC Machine (alt. MV 1034) MV 1003 Mobile Test Bench (alt. MV 1700) MV 1004 Machine Bed MV 1005 Pallet for Machines (3 pcs) MV 1006 DC machine MV 1007 Slip Ring Motor MV 1008 Synchronous Machine MV 1009 Squirrel Cage Motor MV 1010 Flywheel MV 2636 AC and DC Starter MV 1025 Tachogenerator with cover MV 1100 Load Resistor MV 1101 Load Reactor MV 1102 Load Capacitor MV 1300 Power Pack (alt. MV 1302 or MV 1304) MV 1903 Synchronizing Unit MV 1417 Terminal Board MV 1029 Protective cover MV 1500 Load Switch MV 1502 Reversing Switch MV 1503 Star–Delta Switch MV 1905 Shunt Rheostat (2 pcs) MV 1925 Revolution Counter MV 1830 Lab Flex Set (alt. MV 1830–HF) MV 1904 Flex Stand



2. Electrical Power Engineering Test Equipment

SR. NO.	Description	Specification
20	Generation Trainer (XPO-SPS/Gen)	Input 3 phase DOL Starter panel (EMT1) X 1 Nos DC Volt meter & DC ammeter Panel (EMT6B) X 1 Instrumentation power supply cum multichannel DPM panel (EMT 8) X 1 No. Variable AC and DC supply panel (EMT 23) X 1 No. IGBT Controlled VVVF Drive panel (EMT 33A) X 1 3 Phase Bidirectional Power cum Energy meter panel (EMT 34) X 4 Nos. SCR Actuator (variable DC) cum sensor signal conditioning panel (EMT 9) X 1 No. Generator Protection Relay panel (EMT 47B) CT panel (EMT48)) X 1 No. 415/110VAC, 50VA PT panel (EMT 54) X 1 No. 5 pin socket converter panel (EMT 63) X 2 Nos. Generator transformer Panel (EMT54B) X 1 No. 3 phase Squirrel cage Induction Motor Panel (EMT65) X 1 No. 3 phase Salient pole Alternator Panel (EMT65) X 1 No.
21	Power Transmission & Distribution Trainer (XPO-SPS/TLD)	Input 3 phase DOL Starter panel (EMT1) X 1 No FWD-OFF-REV, Switch Panel (EMT 4A) X 1 No 3 Phase Bidirectional Power cum Energy meter panel (EMT 34) X 3 Nos. VAR Compensation panel (dual) (EMT43) X 1 No. Differential Relay (Transformer protection) panel (EMT 47C) X 1 No. CT panel (EMT48)) X 2 No Distance protection Relay panel (EMT 53) X 1 No. 415/110VAC, 50VA PT panel(EMT 54)X 1 No. 37 pin D(M) to 9 pin D(F) converter panel (EMT 62) 5 pin to shrouded socket converter panel (EMT 63) X 2 Nos. Distribution transformer Panel (EMT54D) X 1 No. Transmission line Panel (EMT38 & 42E) RLC load Panel (EMT42A/B/C) X 1 No



2. Electrical Power Engineering Test Equipment

SR. NO.	Description	Specification
22	Solar Training Set (Sun Tracking)	Solar Plate with Sun Tracking Control
23	LOGO Power Supply	24VDC, SIEMENS Logo power supply
24	LOGO Expansion Module	12/24V DM, 8 I/O, SIEMENS Logo
25	SIMATIC Power Supply	SIMATIC Power Supply 24V DC, PM 1207
26	Communication module Training Kit	LOGO! CMK2000 Communication module for integrating the LOGO!8 "in the building system bus KNX;" connection 24 V DC 0.04A 1 RJ45 port for Ethernet 50 communication objects time-of-daysynchronization Configuration/diagnostics via web interface Brand : SIEMENS Model : LOGO! CMK2000
27	Compact Switch Module Training Kit	LOGO! CSM 12/24 Compact Switch Module connection of a LOGO! (...0BA7/...0BA8) and up to 3 further nodes to Ind.Ethernet with 10/100 Mbit/s Unmanaged switch, 4 RJ45 ports, 1x front port for diagnostics DC 12/24V power supply LED diagnostics, LOGO! Setup Brand : SIEMENS Model : LOGO! CSM 12/24
28	Pipe Bender for Metal Conduit with Pipe Vise and Pipe Thread	Conduit Pipe Bender for 20–25mm Diameter Steel Conduit, coming with Pipe Vice
29	Hand Mitre Saw	400mm solid pressure cast saw table with 9 pre-set mitres and workclamp. Blade length 550mm 14tpi
30	NI ELVIS II Board with Laptop Computer	Virtual Bench VB with Electrical, Electronics & Digital Experiment card, Dell core i7, 10th Gen, VB–two-channel, 100 MHz mixed–signal oscilloscope with protocol analysis, an arbitrary waveform generator, a digital multimeter, a programmable DC power supply, and digital I/O–
31	LOGO! 8 PLC 230RCE with HMI 9"	Logic Module, simatic HMI 9"with software, Ethernet cable, LOGO Soft Comfort software–latest, full version
32	LOGO 8 Control Device with DC power supply with LOGO 12/24 power Supply, Ethernet Cable, LOGO Soft Comfort software–latest, full version	
33	Solar Training Set	(Power Case) OFF Grid SHS Series Solar Panel Type: Monocrystalline Silicon, Polycrystalline Silicon Controller Type: MPPT, PWM Load Power(W): 3kW,6kW,5kW,10kW,1500W
34	Variable AC Voltage Regulator	Capacity 5kVA, LCD display



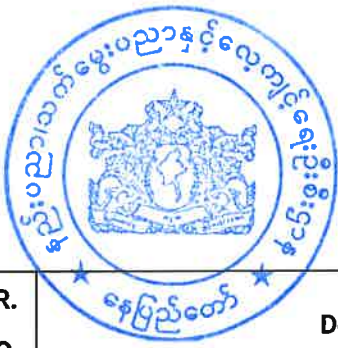
2. Electrical Power Engineering Test Equipment

SR. NO.	Description	Specification
35	Single Phase AC Motor, 1HP, 4 pole	Out power-1 HP (0.75 kW) Input Voltage- 220VAC Frequency- 50Hz RPM - 1440r/min Current - 7.7 A Shaft Diameter - 24mm Size - 400 x 270 x 260 mm, Weight - 20kg
36	Three Phase Induction Motor	star-delta, 4-pole, 2HP, 50Hz
37	Automotive Electrical Capacitance Meter	DC Voltage: 19.999mV/199.99mV/1.9999V/19.999V/ 199.99V/1000V $\pm(0.05\% +3)$, AC Voltage: 19.999mV/ 199.99mV/1.9999V/19.999V/199.99V/750V $\pm(0.3\% +3)$, DC Current: 199.99microA/1999.9 microA/ 19.999mA/199.99mA/1.9999A/19.999A $\pm(0.5\% +3)$ AC Current: 199.99microA/1999.9 microA/19.999miliA/ 199.99mA/1.9999A/19.999A $\pm(0.8\% +3)$
38	Inductance, Capacitance & Resistance - LCR Meter	Measurement range: Capacitance: 0.1 pF to 200 mF, Inductance: 0.1 μ H to 20 H Resistance: 0.1 Ω to 200 M Ω
39	Manual Motor Coil Rewinding Machine	Winding Machine, Specification: Material - Cast Iron, Power Source - manual, Maximum coil Diameter - 25mm
40	Electrical Tool Box	Electrician Tools include: 1* Cordless Drill, 10* drill bits, 1* fast charge, 2* 2.0Ah li-ion battery, 2* screwdriver, 1* pliers, 1* bubble level, 1* 3M tape measure, 1* extension attachment, 14* 50mm screwdriver bits, 40* 25mm screwdriver bits, 4* socket, 1* precision screwdriver with 30* bits, 1* storage box. Multi- purpose .,
41	Insulation Tester	Type of meter - insulation resistance, Kind of display used - LCD (9999) 19mm, Measurement - AC voltage, DC voltage, insulation resistance Bargraph - 29 segm, Insulation resistance measuring accuracy - $\pm(5\% + 5$ digits), AC voltage measuring range - 1...30V/600V, AC voltage measuring accuracy - $\pm(2\% + 8$ digits)
42	Oscilloscope	Bandwidth 100MHz Sample rate (Real time) 1GSa/s Channels Dual Display 8" color LCD, TFT display , 800*600 pixels, 65535 colors



3.Information Technology Equipment

SR. NO.	Description	Specification
1	DC Power Supply	Output off function Dual independent adjustable DC outputs. Independent, series and parallel variety output Constant voltage and constant current Low ripple and noise Four LED displays with 3 digits,selectable for two sets voltage and current display simultaneously Auto tracking output voltage (0V-30V), current 0-5A Power :150W Voltage/ Current Display -LED Display
2	Ethernet converter	Distances up to: 2 km Multimode, 25-120 km Single Mode ST, SC, FC LC, SFP Slots optical connectors AC/DC powered Status LED's for TX, FX LINK/ACT, POWER,100M to easily monitor network status
3	Router	Dual-Concurrent 2.4/5GHz AP Wireless 2.4 GHz standards 802.11b/g/n Wireless 5Ghz standards 802.11a/n/ac Five Ethernet Ports PoE-out on port 5 USB for 3G/4G support CPU core count 1 Operating System Router OS
4	Switch	Gigabit Ethernet Ports 24 Uplink interfaces 4 SFP PoE+power budget 195W CPU ARM v7 800 MHz DRAM 512 MB Flash memory 256 MB Forwarding bandwidth 28 Gbps Switching bandwidth 56 Gbps Forwarding rate (64-byte L3 packets) 41.67 Mpps Maximum active VLANs 256



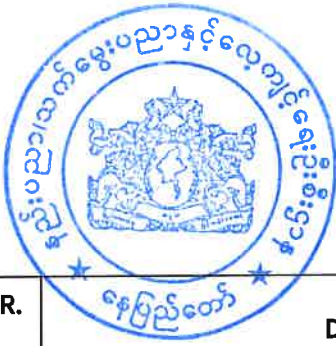
3. Information Technology Equipment

SR. NO.	Description	Specification
5	Arduino UNO Kits	Sensors {Temperature <digital and analog >, Gas, Flame, Hall effect, Soil Moisture, Proximity < Inductive and Capacitance >, Flex, Ultrasonic, Light, PIR, Humidity, etc...} Jumper wires (male to male, male to female, female to female) LEDs (Light Emitting Diode)
6	Visual Fault Locator	output: 30 mW single mode, multimode universal connector
7	Digital multimeter	DCV-60m/600m/9.999/99.99/999.9V, ACV-60m/600m/9.999/99.99/999.9V DCA-600μ/6000μ/60m/600m/6/10A ACA-600μ/6000μ/60m/600m/6/10A Resistance-600/6k/60k/600k/6M/60MΩ Capacitance-60n/600n/6μ/60μ/600μ/6m/25mF Frequency-15Hz~50kHz, Continuity-Buzzer sounds at between 20Ω and 300Ω
8	Optical Power Meter	wavelength(nm) :800~1650 Detector :InGaAs Optical Connector :FC SC ST/ Universal 2.5mm adaptor Measurement Range (dB m) : -50~ +26 Uncertainty : +/- 5% Calibrated Wavelength (nm) :850, 1310, 1490, 1550, 1625 Resolution (db) : 0.01



3.Information Technology Equipment

SR. NO.	Description	Specification
9	Optical Light Source	Emitter type : Fp-LD Wavelength (nm) : 850, 1300, 1310, 1490, 1550, 1625 (maximum support 4 wavelength) Output Stability : 0.15dB Output Power : -7dBm+/-0.5dB Adjustable Range -5~ -12 dBm Optical Accessoris: ST adapter, Male FC to female Lc adapter for LC connector
10	Access Point	Networking Interface: 10/100/1000 Ethernet Port Antennas Dual-Band Antenna, Tri-polarity 2.4 GHz: 3dbi, 5GHz: 6dBi Wifi standard: 802.11 a/b/g/n/ac Power Method: Passive Power over Ethernet max Tx Power: 24 dBm BSSID: Up to Foure per Radio Wireless Security: WEP, WPA-PSK, WPA- Enterprise9WPA/WPA2, TKIP/AES) Advanced QoS per-user Rate limiting
11	Wireless Router (CPE) Unit	Outdoor wireless CPE Operating Frequency: 5250-5850 Mhz, Processor Specs: Atheros MIPS 74Kc, 560MHz, Wireless: 5Ghz Atheros, 27dBm Adjustable down to 8dBm, AES Encryption, Memory Information: 64MB DDR2, 8MB Flash, Networking Interface: 2 X 10/100 BASE-TX (Cat. 5, RJ- 45) Ethernet Interface, PoE Passthrough, Mount and mounting strap (Nanobacket is optional, sold separately), Operating Temperature: -30C to +75C, Power Method: Passive PoE (Pairs 4, 5+; 7, 8 return), Power Consumption: 8 Watts, Power Supply (included): Power Injector 110-240VAC 24VDC .5A North American-style plug, Size: 29.4 cm x 8 cm x 3cm



3. Information Technology Equipment

SR. NO.	Description	Specification
12	Cisco Router	4 ports router support gigabit ethernet,PoE,PoE+ networking Memory : 4 GB Flash Memory : 4 GB Ports/Connectors : (4) GE LAN,(1)GE WAN,(1)GE/SFP with including Copper SFP to RJ45 module combo WAN,Integrated USB 3.0 AUX/console Routing protocol : OSPF,EIGRP,GRE,RIP Routing Protocol: OSPF, EIGRP,GRE,HSRP,IGMPv3,IS-IS,PIM-SM,PIM-SSM,PBR,RIP-1,RIP-2,RSVP,Static routing, VRRP,BGP, Bidirectional Forwarding Detecting(BFD), DVMRP, Remote Management over SNMP, RMON, SYSLOG, CLI, Telnet Protocols: Networking Protocol,Remote Management Protocol Supports IEEE 802.11a/b/g/n/ac Wave 2, IEEE 802.11g, IEEE 802.11n, DHCP, DNS, IPsec, Ethernet, Fast Ethernet, Gigabit Ethernet, IEEE 802.11a, IEEE 802.11ac Wave 2, IEEE 802.11b Networking
13	Cloud Smart Switch	24x 10/100/1000 Ethernet PoE+ ports and 4x 1G SFP uplinks with including 4 SFP to RJ45 module PoE+power budget 195W CPU ARM v7 800 MHz DRAM 512 MB Flash memory 256 MB Forwarding bandwidth 28 Gbps Switching bandwidth 56 Gbps Forwarding rate (64-byte L3 packets) 41.67 Mpps Maximum active VLANs 256
14	Electric Air Duster for Computer	Voltage:110~120V60Hz Power:250~550W Speed:low speed 22000r/min, high speed 33000r/min Wind speed: low speed 7m/s, high speed 318m/s Line length: 10ft



3.Information Technology Equipment

SR. NO.	Description	Specification
15	Desktop Computer	Desktop Intel Core i7 processor 8 GB DDR4 2666 MHz Memory Hard Disk Drive 512GB SSD NVIDIA 2GB Graphic Keyboard and Mouse (Wired Network : 10/100/1000mbps Intel wireless-AC 9560, Dual - Brand 2x2 802.11ac Wifi with MU-MIMO + Bluetooth 5 internal Wireless Antennas 8x DVD+/-RW 9.5mm Optical Disk Drive Monitor Specification- Screen Size : 23", Aspect Ratio : 16:9 Contrast Ratio : 1000:1(typical) Backlight: LED Resolution :1920x 1080 Interface: VGA, HDMI : Built-in Device 1250 VA UPS Capacity (1250 VA) Build in Power Factor 0.65 input 140~275 Volt Output 195~245 VacBackup Time 16 minutes~25 minutes Frquency 45~55 Hz Battery 2x12 V 8.2Ahm
16	Function Generator	Complete dual channels function/ arbitrary waveform generator Channel independence, coupling, track working mode 200 MSa/s sampling rate and 14-bit vertical resolution per channel Output of 6 standard waveforms, built-in 50 kinds of arbitrary waveform Multi modulation function: AM, DSSC - AM, FM, PM, PWM, FSK, ASK, BPSK and logarithm/linear sweep Various input and output: waveform output, synchronous signal output, external modulation input, counter input,10 MHz clock input, external trigger input, power signal output/power meter input



3.Information Technology Equipment

SR. NO.	Description	Specification
17	Oscilloscope	100 MHz bandwidth AUTO's strategy presetable Automatic measurement of 34 waveform Automatic cursor tracking measurement 2 channels, low noise floor, wide vertical range: 1mV/div~20V/div Built in FFT and digital filter System software upgrade via USB drive 7 inches TFT LCD, high resolution display



4. Mechanical Engineering Test Equipment

SR. NO.	Description	Specification
1	Indexing head and Gear Cutter	DP system 8 pcs module system 8 pcs Bt 40, Arbor Shaft 25.4, 28, 32 bore, Tailstock, Gear trail (gaer 8 nos) , HSS, Plate 3nos
2	3D Printer (Zmorph Fab)	3D printing technology:FFF (Fused Filament Fabrication), Toolhead: Single Extruder Toolhead 1.75, Dual Extruder Toolhead, Layer resolution 0.05 - 0.4 [mm], Work area:235 x 250 x 165 [mm],
3	Hand Fork Lift	(2 Tons)
4	Hand Grinder	(DEWALT DW810 750W 4 inch (100mm) Heavy Duty Small Angle Grinder with Toggle Switch
5	Shearing Force and Bending Moment Apparatus	Material-Mild Steel Surface Finish-Color Coated Material Grade-SS304 Body Material-Stainless Steel
6	Slotted link apparatus	anodised aluminium ball-bearing mounted Connecting rod anodised aluminium Cylinder stroke 0...100mm LxWxH: 380x280x100mm Weight: approx. 3kg
7	Belt Drive Apparatus	TM 220 (Belt drive and belt friction) Flat belts 1x leather/polyamide, 15x2,2mm, Extremultus LT10 1x polyamide, 15x0,6mm, Extremultus TT2 V-belt Dynamometer: 100N ±1N LxWxH: 700x350x1100mm Weight: approx. 47kg
8	Thread efficiency Testing Equipment	TM 310 (Thread testing) Spindle thread TR30x6 and TR30x12P6 Rotary plate diameter: 140mm



4.Mechanical Engineering Test Equipment

SR. NO.	Description	Specification
9	Computer Controlled Air Conditioning, Refrigeration and Heat Pump Unit	<p>Computer Controlled Rerversible Heat Pump Manuals+ Air Conditioning + Refrigeration with 2 Condensers and 2 Evaporators (Water/Air) The unit itself +a Control Interface Box + a Data Acquisition Board + Computer Control, Data Acquisition and Data Management Software Packages, Diagram in the front panel with distribution of the elements similar to the real one. Hermetic compressor, power: 3/8 HP, computer controlled. Water condenser, capacity: 1580 W. Air condenser, computer controlled. High pressure control. Storage vessel to prevent a wrong operation of the compressor, capacity: 0.5 l. Filter for the working fluid. Expansion valve. Water evaporator, capacity: 1580 W. Air evaporator, computer controlled. Liquid separator to prevent liquid from entering the compressor, capacity: 0.73 l. Four manometers, situated at important points of the unit. Ten temperature sensors (four sensors measure the cooling temperature, three sensors measure the water temperature, three sensors measure the air temperature): Three flow sensors: Cooling flow sensor, range: 5 – 60 l/h. Water flow sensor (water condenser), range: 0.25 – 6.5 l/min. Water flow sensor (water evaporator), range: 0.25 – 6.5 l/min. Two pressure sensors: Cooling pressure sensor (compressor outlet), range: 0 – 25 bar. Cooling pressure sensor (compressor inlet), range: 0 – 10 bar.</p>



4. Mechanical Engineering Test Equipment

SR. NO.	Description	Specification
		<p>Compressor wattmeter.</p> <p>Four-way valve (solenoid valve) for reversibility the cycle.</p> <p>Four valves to direct the coolant through the condensers and evaporators.</p> <p>Enthalpy diagram of R-513a.</p>
10	Maintenance Kit containing Vacuum Pump, Hoses and Manometers	<p>Flexible charging hose set in three colors: red, blue and yellow for emptying and refrigerant charging: Female connections for 1/4" SAE.</p> <p>Length: 1.5 m. Reinforced synthetic rubber with high resistance to refrigerants and low permeability.</p> <p>Easy to thread brass terminals. Spark-free, two-stage vacuum pump with solenoid valve and vacuum gauge:</p> <p>Flow rate: 70 LPM.</p> <p>Power: 1/3 HP.</p> <p>Vacuum capacity: 0.02 mbar.</p> <p>Connection: 1/4" SAE.</p> <p>Piston / Bridge-pressure and temperature gauge set, for air conditioning and two-way refrigeration systems. With scale for refrigerants: R-22, R-404a and R-134a:</p> <p>Adjustable manometer group with 60 mm diameter.</p>
11	Maintenance Kit containing Refrigerant Filling and Evacuation Module.	<p>Recovery capacity for all CFC, HCFC and HFC and HFO refrigerant gas:</p> <p>Steam up to 16 kg/h.</p> <p>Liquid up to 111 kg/h.</p> <p>Push-Pull up to 373 kg/h.</p> <p>Dry piston compressor.</p> <p>Oil distillation system.</p> <p>Automatic safety lock: 38.5 bar.</p> <p>Visual signalling (green LED) of end of recovery.</p> <p>Flexible charging hose set in three colors: red, blue and yellow for emptying and refrigerant charging:</p> <p>Female connections for 1/4" SAE.</p> <p>Length: 1.5 m.</p> <p>Reinforced synthetic rubber with high resistance to refrigerants and low permeability.</p> <p>Easy to thread brass terminals</p>



4.Mechanical Engineering Test Equipment

SR. NO.	Description	Specification
12	Thermal Power Plant with Steam Engine Trainer	Dimensions : Nett:1700mm high(assembled) x 1000mm wide x 800mm front to back. Packed volume : 1.6 m3 Weight: Nett : 190 kg (without water) Motorpower : Approximately 90 W at 2000 rev.min-1
13	Refrigeration Demonstrator	Electrical requirements: 120VAC; 60Hz; 15A Uses R-600a Refrigerant Overall Size: 19" L x 19" W x 50" H Weight: 115 lbs.
14	Air-conditioning Training Unit	Standalone desktop refrigeration demonstrator based upon a vapour-compression refrigeration system (VCRS). - Desktop vapour pressure air conditioning system for training using R134a refrigerant - Hermetically sealed refrigerant compressor with: - Integral low-voltage three-phase DC motor - Quiet and vibration-free operation - Condenser assembly to cool the refrigerant incorporating: - Multi-pass condenser coil with aluminium fins - DC cooling fan - Evaporator assembly- Thermal expansion valve - Evaporator coil with fins - Centrifugal air blower with three switched speeds - Three temperature displays indicating: - Air temperature before evaporator coil - Air temperature after evaporator coil - Refrigerant temperature in condenser coil - Built-in refrigerant Bourdon gauges on compressor suction and discharge lines with combined temperature and pressure scales - System includes receiver, filter/dryer, sight glass and high/low-pressure cut-outs for safe operation - High and low-pressure charging points - Demonstration/analysis of faults - Blocked condenser pipework - Condenser fan fault - Three pressure switches with indicators



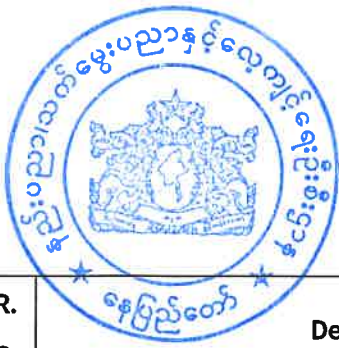
4. Mechanical Engineering Test Equipment

SR. NO.	Description	Specification
15	4" Hand Grinder	Rated power input: 670 W No-load speed: 12,000 rpm Grinding spindle thread: M10 Disc diameter: 100 mm Length: 263 mm Width: 77 mm Height: 95 mm
16	Shaper Machine with Machine Vice	Stroke Length- 500mm Dp 7022 M brand, Motor 1.5kw, 1400rpm,
17	Shaper Rotary Machine Vice	Jaw Size- 6" For Stroke Length 350mm (Shaper)
18	Machine vice for Drilling Machine	(Jaw Size- 5")
19	Pneumatic Training board and accessories	
20	Hydraulic bench	
21	Bernoulli's apparatus test requirement	
22	Centrifugal pump and Axial flow pump	(1HP)
23	Metacentric height apparatus	(1HP)
24	Reservoir tank	(250 L capacity)
25	Fluid properties apparatus	
26	Hydrostatic pressure apparatus	
27	4 cylinder diesel Running with stand	
28	Compression Gauge (Diesel)	Fuel type- Diesel, Material -Rubber 4.09 x 12.6 x 16.22 inches 0.5 Kilograms
29	4 cylinder Petrol Running with stand	
30	Compression Gauge (Petrol)	
31	Diesel Fuel Injector Nozzles Tester 60MPa	Measuring ranges: 0 to 600 bar & 0 to 8000 PSI Pressure range: 60Mpa (600 bar) For 6190/6200/6170 Diesel Can test pressure: ≥ 35.0 MPa (350 bar) Fuel tank capacity: 4000mL Oil Cup : 0.8L Plunger Hole: 2/5"



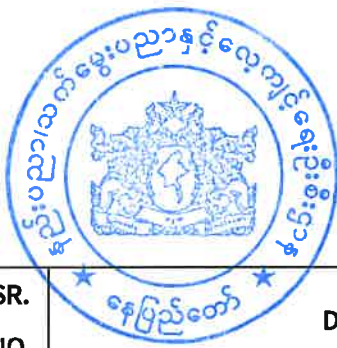
4. Mechanical Engineering Test Equipment

SR. NO.	Description	Specification
32	Fuel auto injector cleaner and tester nozzle cleaner & tester	1. Ultrasonic cleaning 2. Spray ability test 3. Leakage test 4. Injecting flow test 5. Auto testing 6. On-Vehicle cleaning 7. Electronic drain 8. Cylinder: 4 9. Structure: desk 10. Adaptor: standard
33	EFI trainer Board	
34	Lift Crane	(3 tons)
35	In-line type pump (4 Cylinder)	
36	Distributor type pump (4 Cylinder)	
37	Compressor with air tank	(3 HP, 14 Bar, 740 RPM)
38	Manual transmission	
39	Automatic transmission (Front wheel drive)	
40	Compressor	(1HP, semehermatic type)
41	Vaccum Pump	Free Air Displacement 1.5 CFM Ultimate Vaccum 2pa,220V,Frequency 50/60 HZ,Power1/4 hp Motor speed 1440 R/min
42	Pressure Guage	Double 0-18 bar, 0-38 bar
43	Hole Core Drill, DC Drill Gun	DC Drill Gun
44	Split type Air Conitioner	(Indoor and Outdoor Unit) 2hp,split type,inverter -R32
45	Gear Trains Model	GL 410 (Assembly simple gears) Toothed belt disk number of teeth: $z=30, 60$ Chain wheels number of teeth: $z=20, 30$ DIN 8192 ISO 10B-1 Spur wheel number of teeth: $z=30, 60$ module $m=2\text{mm}$ Pair of bevel gears number of teeth: $z=30$ module: $m=3\text{mm}$ transmission ratio: $i=1$ angle of rotation: 90° LxWxH: ca. 1030x500x520mm (assembled frame) Weight: approx. 70kg LxWxH: 600x400x220mm (storage system) LxWxH: 600x400x170mm (storage system)



4. Mechanical Engineering Test Equipment

SR. NO.	Description	Specification
46	14" High Speed Cutting Machine	-Belt Type, 1 HP(or) 750 W, Single Phase
47	Bench Drilling machine	Bench Drill 12 inch Variable Speed Drilling Chuck 3-16mm For DIY Woodworking Tools with laser / digital
48	Arc Welding M/C and Accessories	HONE Stick Welder, 110V/220V Actual 140Amp IGBT Inverter Digital Display LCD Welding Machines with Hot Start Arc Force Anti-Stick, High Efficiency for 1/16"-1/8" Welding Rod
49	Surface Grinding machine	Cylindrical Grinder Type Universal Cylindrical Grinder Table Size 500*250T -Slot Number*Width1*14 Spindle Motor 1.5kW. 500X250mm table size
50	Torsion Testing Machine	Dimensions-1100*400*300mm, Weight-33kg, Packed Volume and Weight -0.3m ³ ,60kg(approx), Nominal Capacity-30Nm, Maximum Specimen Length-750mm, Gear Box Ratio-60:1, Drive Sockets-3/16" Whitworth and 12mm AF hexagonal (2 off each supplied)
51	Bend Testing Machine	Max distance between support-600mm, Accuracy of bending-0.01mm, Accuracy of twisting-0.01mm(degrees), Dimensions-790*225*345mm, Weight-13kg
52	Single Cylinder Petrol Engine	Type: 4-stroke, OHV, Single cylinder, inclined by 25°C, Displacement: 196 cm ³ (12.0 cu.in), Max. horsepower: 5.5 HP (4.1 kW) at 3600 rpm, Max. torque (crank PTO): 12.4 Nm(1.26 kg.m, 9.1 ft.lb) at 2500 rpm, Carburetor: Horizontal type, butterfly valve, Cooling system: Forced-air, Ignition System: Transistorized magneto ignition, Lubricating system: Forced splash, Starting system: Recoil starter, Stopping system: Ignition primary circuit ground, Fuel used: Unleaded gasoline (octane number 86 or higher), Fuel consumption: 3.1 Liters(0.82 Us gal, 0.68 Imp gal)/h, PTO shaft rotation: Counterclockwise (from PTO shaft side)



4. Mechanical Engineering Test Equipment

SR. NO.	Description	Specification
53	Single Cylinder Diesel Engine	Single Cylinder, Horizontal, 4 stroke, Swirl Combustion Chamber, Bore*Stroke (mm): 70x70, Rated Power: 2.94 kW/4HP, Rated Speed (R/MIM): 2600, Max Power: 3.23 KW/4.4 HP, Cooling Method: Hopper, Lubrication Method Centrifugal Splashing, Starting Method: Hand Cranking, Net weight (kg): 50
54	SMAW Welding Machine (Arc Welding Machine)	ARC 200Amp Welding Machine Input Voltage 380VAC/50Hz Input Power (kVA) 18.2 Current Range (A) 30 – 200 Duty Cycle @ 40°C 400A @ 60% No-Load Voltage (V) 79 (9V – VRD) Efficiency (%) 85 Power Factor 0.95 Protection/Insulation Class IP21S/F Dimensions (LxWxH mm) 618 x 330 x 441 Weight (Kg) 20
55	GMAW/MIG Welding Machine(Gas Welding Machine)	400Amp, Air(with Compressor)
56	Bench Grinding Machine with Stand	380 V, 3 Phase,(300 mm x 25 mm x25 mm (Metal and Carbide 2 wheels)
57	Universal Material Testing Machine	Universal Material Testing Machine (200kN/20ton) -Flat Jaw Dia(0-12)mm -Round Jaw Dia(5-10)mm, (10-20)mm -Computer -Colour Printer -Software -Standard Specimens (Round bar, Flat bar) -Plate (Standard size)
58	Vertical drilling machine with vice	max drilling capacity 40mm max tapping capacity M27mm max distance from spindle to column 360 mm effective area of table 550x470mm main motor power 2.2/2.8kw Machine Vice(Rotary)-6" (or) 8"
59	Four-Cylinder Diesel Engine	(EFI) Running condition Training Vehicle (4 Cylinder, Diesel, EFI)



5.Industrial Engineering Test Equipment

SR. NO.	Description	Specification
1	DC Power Supply	Output off function Dual independent adjustable DC outputs. Independent, series and parallel variety output Constant voltage and constant current Short circuit Protection Input voltage: 230 (220) VAC Output voltage: 0~30 VDC
2	NI ELVIS II Prototyping	NI ELVIS Series II workstation connection wire (5 coil with different color), Resistors (100 pcs with different values), Capacitor (different values) 40 pcs, Diode (1N4001,1N4007,1N4148)10 pcs each, Transistors (electrolyte and non-electrolyte) 20 pcs each ICs (timer, counter, logic gate)4pcs each, LEDs (red, green, blue, white) 10pcs each
3	Arduino Starter Kit	5pcs (White, Yellow ,Blue, Green ,Red LED), 1pcs RGB LED, 2pcs Photoresistor, 1pcs Thermistor, 2pcs Diode Rectifier (1N4007), 2pcs NPN Transistor (PN2222), 1pcs Tilt Switch, 5pcs Button (small), 1pcs (1 digit 7- segment Display,1pcs 4 digit 7-segment Display, Sound Sensor Module, LCD 1602 Module (with pin header), IC L293D, IC 74HC595, Active Buzzer, Passive Buzzer, DHT11 Temperature and Humidity Module, Potentiometer, Joystick Module, Membrane Switch Module, 5V Relay, IR Receiver Module, R3 Controller Board, 830 Point Breadboard Servo Motor(SG90), Stepper Motor, ULN2003 Stepper Motor Driver Board, Prototype Expansion Power Supply Module, Ultrasonic Sensor, 3V Servo Motor(Soldered Wire), Fan Blade, Remote 65 Jumper Wire, Water Lever Sensor, 9V Battery Connector with DC),10pcs Resistor (10,100,220,330,1k,2k,5k1,10k, 100k,1M),10pcs Female- to-male Dupont Wire, Material Bag or Material Box



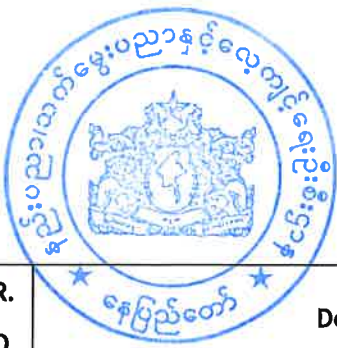
5. Industrial Engineering Test Equipment

SR. NO.	Description	Specification
4	Pure Sine Wave Inverter	(1.5 kW), with two 120AH batteries 1.5kW pure sine wave inverter 12 V smart charger (2 pcs) AC 220V 50Hz, DC 24V Input 24V DC (120 AH battery x 2pcs) battery clips, cable with cable lugs safety DC Breaker
5	PLC training kits with S7 1200	Simatic S7 1200 ProfNet Cable/Data cable Power supply(24V, 220V) Input Output board Syslink cable x 2 Nos Base Frame 16"x12"
6	SIMATIC S7 1200 AC/DC/Rly 1214C	CPU 1214 C 14 inputs(digital), 10 outputs(digital) 2 Analogue input, Profinet Cable Profile Stand 16"x12" 24V DC power supply
7	SIMATIC S7 1200 DC/DC/DC 1215C	CPU 1215C 14 inputs(digital), 10 outputs(digital) 2 Analogue input, 2 Analogue output Profinet Cable Profile Stand 16"x12" 24V DC power supply
8	SIMATIC G120 converter	Frame size FSA 1.5 kW Power module CPU module Operator module Profile Stand 16"x12" 24V DC power supply
9	Frequency Converter (1P to 3P)	0-3200 Hz, 5 HP
10	Cordless Rechargeable DC Screw Driver Drill	Lithium Battery, Li-ion2.0Ah No-Load Speed 1500rpm Variable Speed(0-1350 rpm) maximum drill diameter 10mm Brush motor, DC Charger



5. Industrial Engineering Test Equipment

SR. NO.	Description	Specification
11	Digital Multimeter	1000V DC voltage measurement 750V AC voltage measurement 10A DC/AC current measurement, Resistance/ Capacitance and hFE, Diode/Continuity test
12	PLC FX5U- 32MR/ES with accessories	FX5U-32MR/ES, 16 inputs and outputs , flash memory, 120-240AC supply, Programming cable
13	PLC FX3U- 24MR with accessories	FX3U- 24MR, 14 digital inputs, 10 digital outputs, Analogue 6 AI, programming cable
14	Communication Module for PLC S7 1200	CSM 1277, RJ 45 4 ports, 24V power supply
15	Vertical Axis Wind Turbine	plastic blade, 500W generator, 24V, blue color
16	Horizontal Axis Wind Turbine	1kW, 12/24/48 V output, rated wind speed 13m/s, white color
17	Pure Sine Wave Inverter,	24 V DC supply(off grid), 2kW, 24V DC input, 220V AC, 50 Hz output
18	Function Generator	2 Channel output Max. output frequency 50MHz Frequency resolution up to 0.01uHz, Arbitrary waveform output, 2.4 inch TFT color display, Max. 999.9s Ling/Log. Sweep, Pulse duty cycle resolution up to 1%
19	Oscilloscope (100 MHz)	Real-time Sample Rate - 500MS/S Equivalent Sampling Rate - 50 GS/s, Analog Bandwidth - 100MHz, Rise Time (Typical) - ≤3.5ns, Analog-to- digital converter(A/D),8 bits Measurement quantity, Display 5 types of measurement at the same time, Measure scope - Screen or cursor



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
1	Automatic Level with Tripod (Complete Set)	Telescope Length 215 mm, Stadia 0-100, Magnification 32x/Objective Aperture 42mm Resolving Power 3", Field of View 1°20' Including Tripod, Bar code Staff, Survey Hammer, 100ft Measuring Tape, Plumb Bob.
2	Total station(Complete Set)	Telescope length=171mm Magnification-30x/2,5" Minimum Focus-1.3 meter/4.3ft Distance Measurement Single Prism-3000m(9900 ft) Accuracy- Reflector less & Sheet-(2mm +2ppm x D) m.s.e Minimum Reading-1"/5" Magnification-30x/2,5" Minimum Focus-1.0 m Mini Prism-1.5m ~ 2500 (3000)m
3	Hand Vibrator	Name: Electric Concrete Mixer Material: plastics + metal Power: 2600W Package size: 320 * 197 * 247mm / 12.60 * 7.76 * 9.72in Package weight: 3952g / 8.71lb Packing List: 1 * Electric Concrete Mixer 2 * Carbon Brush 2 * Wrench 2 * Sponge Cover 1 * Guideline
4	Compass with tripods	Telescope Magnification: 16X Image: Erect Lens Diameter: 22mm Stadia: 1:100 Field of View: 2deg @ 30' Shortest Sighting Distance: 8' (2.5m) Compass Needle Length: 2.6" (67mm) Compass Dial Unit Resolution: 1deg Compass Needle Accuracy: 0.5deg Horizontal Vernier Unit Resolution: 5min Vertical Scale Unit Resolution: 1deg Vertical Vernier Unit Resolution: 5min Vertical Measuring Range: +/- 50 deg Precision of long air level: 2mm @ 30' Tripod Height Range: 34in to 54in



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
5	HM150 Base Module (Hydraulic Bench)	<p>power consumption: 250W</p> <p>max. flow rate: 150L/min</p> <p>max. head: 7,6m</p> <p>Storage tank, capacity: 180L</p> <p>Measuring tank</p> <p>at large volumetric flow rates: 60L</p> <p>at small volumetric flow rates: 10L</p> <p>Flume</p> <p>L×W×H: 530×150×180mm</p> <p>Measuring beaker with scale for very small volumetric flow rates</p> <p>capacity: 2L</p> <p>Stopwatch</p> <p>measuring range: 0...9h 59min 59sec</p> <p>230V, 50Hz, 1 phase</p> <p>230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase</p> <p>UL/CSA optional-L×W×H:1230×770×1070mm</p>
6	HM 150.03 Plate weirs for HM 150 Weirs	<p>material: stainless steel</p> <p>self-sealing ▪ rectangular profile</p> <p>L×W of the section: 60mm</p> <p>V-profile</p> <p>angle of the section: 90°</p> <p>height of the section: 60mm</p> <p>Measuring ranges head: 0...200mm</p> <p>L×W×H: 230×190×2mm (weir plates)</p> <p>L×W×H: 290×190×290mm (level gauge)</p> <p>Total weight: approx. 4kg</p>
7	HM 150.11 Losses in a pipe system	<ol style="list-style-type: none"> 1. investigation of pressure losses in piping elements and shut-off devices 2. different measuring objects for determining flow rate according to the differential pressure method 3. six pipe sections capable of being individually shut off, with different piping



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
		<p>elements: sudden contraction, sudden enlargement, Y-pieces, T-pieces, corners and bends</p> <p>4. one pipe section to hold interchangeable shut-off/measuring objects</p> <p>5. measuring objects made of transparent material: Venturi nozzle, orifice plate flow meter and measuring nozzle</p> <p>6. shut-off devices: angle seat valve, gate valve</p> <p>7. annular chambers allow measurement of pressure without interaction</p> <p>8. 2 twin tube manometers for measuring the pressure difference</p> <p>9. flow rate determined by HM 150 base module</p> <p>10. water supply using HM 150 base module or via laboratory supply</p> <p>Pipe section to hold fittings or measuring objects</p> <p>20x1,5mm, PVC</p> <p>Pipe sections Inner diameter: d</p> <p>straight:d=20x1,5mm, length: 800mm,PVC</p> <p>sudden contraction: d=32x1,8 20x1,5mm, PVC</p> <p>sudden enlargement: d=20x1,5 32x1,8mm, PVC</p> <p>with 2x Y-piece 45° and 2x T-piece</p> <p>with 2x 90° elbow/bend: d=20x1,5mm, PVC and 2x 45° elbow: d=20x1,5mm, PVC</p> <p>2x twin tube manometers: 0...1000mmWC</p> <p>Measuring ranges</p> <p>pressure: 0...0,1bar</p> <p>LxWxH: 1550x640x1300mm</p> <p>Weight: approx. 58kg</p>



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
8	HM 150.06 Stability of floating bodies	Floating body L×W×H: 300×130×190mm mast height: 400mm Horizontal scale: 180mm Vertical scale: 400mm Height scale of the floating body: 120mm Clinometer scale: ±30° Weights floating body without clamped weights: approx. 2,7kg vertical clamped weight: 575g horizontal clamped weight: 196g Tank for water: 50L L×W×H: 660×450×220mm (tank) Weight: approx. 6kg
9	HM 150.39 Floating bodies	Hard chine frame L×W×H: 300×200×140mm mast height: 200mm Round bilge frame L×W×H: 300×200×100mm mast height: 240mm Horizontal scale: 180mm Vertical scale: 240mm Height scale of the floating body: 120mm Clinometer scale: ±30° Weights floating body without clamped weights hard chine: approx. 2,9kg ▪ round bilge: approx. 2,4kg vertical clamped weight: 575g horizontal clamped weight: 196g L×W×H: 330×220×290mm (hard chine) L×W×H: 330×220×280mm (round bilge) Total weight: approx. 7kg
10	HM 165 Hydrology Apparatus	<ol style="list-style-type: none"> 1. investigation of precipitation–discharge relationships, storage capacity of soils, seepage flows and groundwater flows 2. closed water circuit 3. inclinable stainless steel experiment tank contains 19 measuring connections to detect groundwater levels, transparent



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
		<p>splash guard and screens for separating the chambers</p> <p>4. 2 wells with open seam tubes in the experiment tank</p> <p>5. precipitation device with 8 nozzles, adjustable</p> <p>6. water supplies and drains can be selected individually</p> <p>7. transparent measuring tank (flow)</p> <p>8. instruments: tube manometers (groundwater), flow meter (supply) and measuring weir in the measuring tank (drain)</p> <p>Experiment tank area: 2mx1m, depth: 0,2m max. sand filling: 0,3m³ inclination adjustment: -2,5...5%</p> <p>Precipitation device 8 nozzles, switchable in 2 groups of 4 nozzles flow rate per nozzle: 1...4,7L/min, square spray pattern</p> <p>Pump power consumption: 0,55kW max. flow rate: 2000L/h</p> <p>Storage tank, stainless steel: content 180L</p> <p>Measuring ranges § pressure: 19x 0...300mmWC § flow rate: 1x 150...1700L/h (water supply) 1x 0...1700L/h (water drain)</p> <p>230V, 50Hz, 1 phase 230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase UL/CSA optional LxWxH: 2400x1100x1800mm Empty weight: approx. 310kg sand (1...2mm grain size)</p>



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
11	WP 300.09 Laboratory trolley	1. laboratory trolley for experimental units 2. 3 storage drawers 3. 3 retractable sockets Top area, L×W: 1320×780mm 230V, 50Hz,
12	Optical Dissolved Oxygen Sensor	Standard 12 mm sensor shaft format Autoclave, CIP, and SIP compatible Electrolyte-free, eliminating contamination Constructed from FDA compliant, and USP Class VI certified materials Typical Connection Strategy Digital communication to process control system (Modbus or analog connection) Primary Output Modbus RTU ECS Secondary Output 4–20mA (3 wire) Optional Output Profibus, Foundation Fieldbus, or 4–wire 4–20 mA with Wi adapter Wireless (Bluetooth) Optional with Wi Adapter Temperature Compensation 4–20mA compensated in sensor; Temperature is Modbus variable
13	PH Meter	(HQ1110 Portable pH/ORP/mV Meter with Gel pH Electrode PHC201, 1 m Cable)
14	Turbidity Meter with Accessories	(Sample Cells Standard flasks, Funnel, Wash Bottle, Tissue Papers) Chemicals Required 1. Hexamethylenetetramine 2. Hydrazine sulphate



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
		<p>3. Distilled Water</p> <p>Accuracy</p> <p>Ratio on: $\pm 2\%$ of reading plus 0.01 NTU from 0 – 1000 NTU, $\pm 5\%$ of reading from 1000 – 4000 NTU based on formazin primary standard</p> <p>Ratio off: $\pm 2\%$ of reading plus 0.01 NTU from 0 – 40 NTU</p> <p>Air Purge</p> <p>Dry nitrogen or instrument grade air (ANSI MC 11.1, 1975)</p> <p>0.1 scfm at 69 kPa (10 psig); 138 kPa (20 psig) max</p> <p>Hose barb connection for 1/8-inch tubing</p> <p>Certifications CE, KC, RCM</p> <p>Communication USB</p> <p>Compliance EPA</p> <p>Data Logging</p> <p>2000 total logs, includes reading log, verification log and calibration log</p> <p>Dimensions (H x W x D)</p> <p>153 mm x 395 mm x 305 mm</p> <p>Display 17.8 mm (7 in.) color touch screen</p> <p>Interface 2 USB-A ports for USB flash drive, external thermal printer, keyboard and barcode scanner</p> <p>Light Source</p> <p>Tungsten filament lamp</p> <p>Measurement Method Nephelometric</p> <p>Operating Temperature Range 0 – 40 °C</p> <p>Power Requirements (Amps) 3.4 A</p> <p>Power Requirements (Hz) 50/60 Hz</p> <p>Power Requirements (Voltage) 100–240 VAC</p> <p>Range</p> <p>0 – 4000 NTU</p> <p>Range</p>



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
		<p>NTU (Ratio on): 0 – 4000</p> <p>EBC (Ratio on): 0 – 980</p> <p>EBC (Ratio off): 0 – 9.8</p> <p>Reading Modes</p> <p>Single, continuous, Rapidly Settling</p> <p>Turbidity™, signal averaging on or off, ratio on or off</p> <p>Regulatory Meets EPA Method 180.1</p> <p>Repeatability</p> <p>±1% of reading or 0.01 NTU, whichever is greater (under reference conditions)</p> <p>Response Time</p> <p>Signal averaging off: 6.8 seconds / Signal averaging on: 14 seconds (when 10 measurements are used to calculate the average)</p> <p>Sample Cell Compatibility</p> <p>Round cells 95 x 25 mm (3.74 x 1 in.) borosilicate glass with rubber-lined screw caps</p> <p>Note: Smaller sample cells (less than 25 mm) can be used when a cell adapter is used.</p> <p>Sample Requirements</p> <p>25 mm sample cell: 20 mL minimum</p> <p>0 to 70 °C (32 to 158 °F)</p> <p>Source Lamp Tungsten Lamp</p> <p>Stabilization Time</p> <p>Ratio on: 30 minutes after start-up</p> <p>Ratio off: 60 minutes after start-up</p> <p>Storage Conditions</p> <p>-20 to 60 °C</p> <p>Units</p> <p>NTU and EBC</p> <p>Weight 3.0 kg</p>



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
15	DR3900 Laboratory VIS Spectrophotometer with RFID* Technology	Beam Height 10 Data Logger 2000 measured values (Result, Date, Time, Sample ID, User ID) Dimensions (H x W x D) 151 mm x 350 mm x 255 mm Display 7" TFT Display Resolution WGA (800 pix x 480 pix) Display Size 7 inch (17.8 cm) Display Type Colored touch-screen Enclosure Rating IP30 Interfaces USB type A (2)/USB type B/Ethernet/RFID module Light Source Gas-filled Tungsten (visible) Manual Languages English, French (CDN), Spanish (SA), Portuguese (BR), Chinese, Japanese, Korean Max. operating humidity 80 Max. Storage Humidity 80 Operating Conditions 10 – 40 °C Operating Mode Transmittance (%), Absorbance and Concentration, Scanning Optical System Reference beam, spectral Photometric Accuracy 5 mAbs @ 0.0 – 0.5 Abs Photometric Accuracy 2 1 % at 0.50 – 2.0 Abs Photometric Linearity < 0.5 % – 2 Abs Photometric Linearity 2 ≤ 0.01 % at >2 Abs with neutral glass at 546 nm



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
		Photometric Measuring Range ± 3.0 Abs (wavelength range 340 - 900 nm) Power Requirements With external power supply Power Requirements (Hz) 50/60 Hz Power Requirements (Voltage) 110-240 V AC Power Supply Benchtop Power Supply Preprogrammed Methods > 240 Sample Cell Compatibility Rectangular: 10, 50 mm, 1 inch; round: 13 mm, 16 mm, 1 inch Scanning Speed > 8 nm/S (in steps of 1 nm) Source Lamp Gas-filled Tungsten (visible) Specific Technology RFID for easy method update, sample ID and Certificate of Analysis Spectral Bandwidth 5 nm \pm 1 nm Standard accessories None Storage Conditions -30 - 60 °C Stray Light < 0.1 % T at 340 nm with NaNO ₂
16	Rock Study Kit	between 1 and 1.5 inches in diameter. Included are: obsidian, granite, basalt, pumice, rhyolite, shale, tufa, sandstone, limestone, conglomerate, slate, marble, quartzite, gneiss and schist
17	Mineral Study Kit	between 1 and 1.5 inches in diameter. Included are: fluorite, feldspar, hematite, pyrite, quartz, calcite, muscovite, magnetite, gypsum, talc, halite, biotite, graphite, satin spar gypsum, and selenite



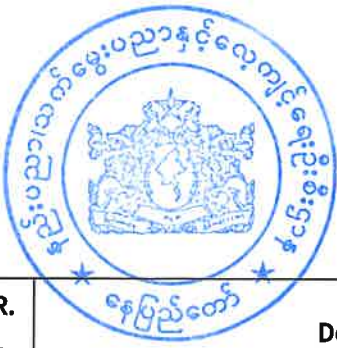
6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
18	Streak Plates(White)	2" x 2" in size and about 3/16" thick
19	Streak Plates(Black)	2" x 2" in size and about 3/16" thick
20	Geology Hand Lens	<p>Approximate measurements: 3 1/8" unfolded length, 1 7/8" folded length, with a lens diameter of 23 mm.</p> <p>Lens Specifications: 10x magnification, 23 mm in diameter, Coddington design to correct for spherical aberration</p>
21	Hardness Pick Set	<p>Four double-ended picks with hardness points of 2-9 on Mohs hardness scale</p> <p>A grinding plate for sharpening your points</p> <p>Streak plate</p> <p>Glass plate for quick "hard" or "soft" determination</p> <p>Metal plates with harnesses of 2.5 and 3.5</p> <p>Magnet</p> <p>Paper table listing common minerals and their hardness</p> <p>Hardness testing instructions</p> <p>All of this in a compact (approx. 7 3/8" x 2 7/8" x 1 7/8") wooden case that takes up minimal space on a desk or shelf</p>
22	Electronic Distance Meter	
23	Consistency and Setting Time of Cement Test Apparatus (with accessories)	<ol style="list-style-type: none"> 1. Vicat Apparatus Set 2. Needles (Plunger) 3. Needles(Annuler) 4. Movable Rod 5. Graduated Scale 6. Vicat Mould 7. Glass/Mild Steel Plate



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
24	Fineness of Cement Test Apparatus (with accessories)	1. Blaine Air Permeability Apparatus 2. Rubber Bulb 3. Cell and Plunger 4. Perforated Brass Disc 5. Manometer U tube 6. Manometer Fluid
25	Specific Gravity of Cement Test Apparatus	1. Le Chatelier's Flask 2. Water Bath 3. Glass Funnel (250ml capacity with stopper)
26	Specific Gravity of Fine and Coarse Aggregates Test Apparatus(with accessories)	1. Pycnometer 2. Conical Mold 3. Tamper 4. Funnel 5. Airtight Container 6. Wire Basket 7. Watertight Container 8. Specific Gravity Frame 9. Cradle
27	Sieve Shaker with Sieves of appropriate sizes(20 Nos)	Seive Shaker Mortor Operated Provided of timer 0 – 60 minutes.Power supply: 230V , single phase, 50Hz 110W Opening 37.5mm, 25.0mm, 19.0 mm, 12.5mm, 9.500 mm, 6.30mm, 4.750 mm, 3.350 mm, 2.360 mm, 2.00mm, 1.180 mm, 0.850 mm, 0.60mm, 0.425mm, 0.300 mm, 0.25mm, 0.150 mm, 0.106mm, 0.075 mm. Lid for Sieves dia. 200 mmReceiver for Sieves dia. 200 mmSieves dia. 250mm(8")
28	Soundness of Cement Test Apparatus (with accessories)	1. Le Chatelier's Mould 2. Glass Sheets(2 Sheets) 3. Le Chatelier Water Bath A small split cylinder of spring brass or other sulfa metal. Le- Chatelier mold is 30 mm in diameter and 30 mm highwith heating resistance



6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
29	Slump of Cement Test Apparatus (with accessories)	1. Slump Cone 2. Tamping Rod 3. Waterproof Base Plate 4. Steel Rule 5. Aluminium Scoop 6. Fine Wire Brush Slump Cone "galvanized steel" (4" diameter, 8" diameter, 12" Height) 5/8" diameter, 24" long galvanized steel rounded ruler Stainless steel rule 300mm long 500CC capacity
30	Digital Theodolite with tripod (Complete Set)	Telescope Length : 152 mm, Objective lens : 45 mm, Magnification : 30x power, Field of view 1°30', Water proof-IP66 Angle measuring accuracy-5" Angle display-1"/5" Angle unit-360°/400G Compensation range ±3' Including Tripod, Bar code Staff, Survey Hammer, 100ft Measuring Tape, Plumb Bob.
31	Horizontal Mortiser	Motor power : 3.0hp (2.2kw) Mortising Length : 250mm Mortising depth : 160mm Speed 3000rpm -high adjustment 130mm Mortising chuck, suitable for left and right hand cut bits, clamping range 0-20mm
32	Surface Planer	3phase A/C motor 4.0KW Silent power spril cutter block Max Depth of cut : 4mm Surface Planing width : 410mm Surface Planer table length : 1800mm 50Hz motor frequency Planer fence tiltable from 90 to 45 degree working height 850mm Length of surface planer fence in 150x1100mm
33	Dust Extractor	Airflow capacity : 3100m ³ /h Double bag system with 2x200 litre = 400 litres Extraction connection Ø 120mm and 80mm Maximum negative pressure 2510Pa



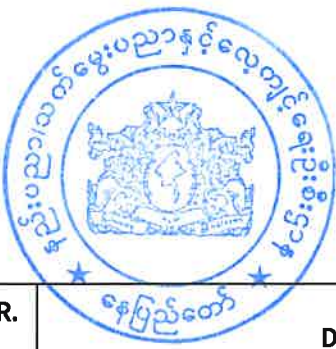
6.Civil Engineering Test Equipment

SR. NO.	Description	Specification
34	Vise (5")	
35	Portable Sander	Rating Output- 250W Sanding pad diameter- 125mm Oscillating circuit diameter-2.5mm No-load speed 7,500 – 12,000 rpm Orbital stroke rate 15,000 – 24,000 opm Eccentricity 1.25 mm Sanding sheet / disc attachment hook-and-loop fastening
36	Portable Router	Motor speed: 30000rpm Motor power: 800W and Voltage:110V Milling cutter shank:1/4 inch or 6.35mm Trimming diameter:1/4 inch or 6.35mm Motor material: resistant copper wire motor Shell material: aluminum case 1 set of 15pcs milling cutter set
37	Portable Planer	Rabbet- 11/32 Planing Depth -3/32 Planing Width -3 1/4 Component-Metal/plastic Revolutions per Minute 17,000 Double edged mini planer blade, blade gauge assembly socket wrench 9 , rule guide and plastic carrying case
38	Universal Testing Machine	Capacity-50KN, Test Speed Range-0.01mm-500mm/min Main Frame Type-Double Column Tension Space-600mm, Compression Space-700mm, Extensometer
39	Concrete Mixer	Horse power :1200w
40	Hand Circular saw	Rated input power 1250 W Saw blade diameter 184 mm No-load speed 5,500 rpm Saw blade bore diameter 20 mm Max. cutting capacity in wood (90°) 67 mm Max. cutting capacity in wood (45°) 49 mm



7.Farm Machinery

SR. NO.	Description	Specification
1	Water Pump	Type: Roller Cabinet Height: 915mm, Length: 706mm, Width: 461mm
2	Air Gun with spanner set	
3	Hydraulic Jack	(5 Tons)
4	Hand Fork Lift	Full Featured Pallet Truck, 5500 lbs Capacity, 36" Length x 20" Width Fork
5	Chain Block with Stand	Manual Lever Block Chain Hoist 6600 lbs, Chain Come Along 10 feet, Chain Hoist 3 Tons, Ratchet Chain Hoist 5/16" Diameter for Warehouse Garages Construction
6	Balancing Crane	(5Tons), Max; lifting capacity : 6 to 10 feet, Material: Mild steel
7	Nozzle Tester	Measuring ranges: 0 to 0600 bar & 0 to 8000 PSI Pressure range: 60Mpa (600 bar) Test pressure: ≥35.0MPa (350 bar) Fuel tank capacity: 4000mL Oil Cup : 0.8L Plunger Hole: 2/5'
8	Measuring Gauge and Tools	0-150mm/0-6" ,0.01mm/0.0005" ±0.02mm/0.001"(<100mm) ,±0.03mm/0.001" (>100-200mm) ±0.04mm/0.0015"(>200-300mm)
9	Engineering Tools Set for Tractor	
10	Engineering Tools Set for Combine Harvester	
11	Heavy Duty Box Spanner (25 pieces)	
12	Trolley Flat	350kg, (765x460x130)mm



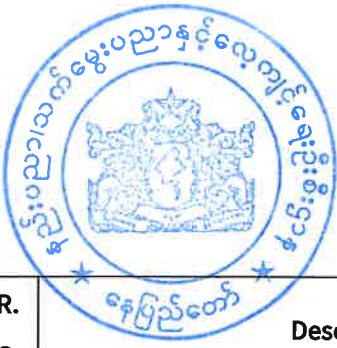
8.Refrigeration & Air Conditioning Test Equipment

SR. NO.	Description	Specification
1	Electric Drill (AC)	220-240 Volt Power Input 800W
2	DC Drill	12 V Cordless Drill/Driver
3	Vacuum Pump (1/2 HP)	
4	Window Type Air-Conditioner for Training	1HP, (R-410a)
5	Split Type Air-conditioner for Training	1HP, (Inverter R-32)
6	Split Type Air-conditioner for Training	1.5HP, (Heating & Cooling)
7	Floor Standing Air Conditioner for Training	3HP, Non Inverter (R 410a)
8	Refrigerator for Training	(1 Door)



9. Automotive Technology

SR. NO.	Description	Specification
1	Diesel Fuel Injector Nozzles Tester 60MPa	Measuring ranges: 0 to 6000 bar & 0 to 8000 PSI Pressure range: 60Mpa (600 bar) Test pressure: ≥ 35.0 MPa (350 bar) Fuel tank capacity: 4000mL Oil Cup : 0.8L Plunger Hole: 2/5"
2	Fuel auto injector cleaner and tester nozzle cleaner & tester	Ultrasonic cleaning Spray ability test Leakage test Injecting flow test Auto testing On-Vehicle cleaning Electronic drain Cylinder: 4 Structure: desk Adaptor: standard
3	Manual Transmission & Clutch	6-speed Manual Transmission (Five Forward/ One Reverse) Synchromesh Manual Transmission (All Gears with Synchronizer) Cable type Control Diaphragm type Clutch
4	Engine Stand	Made of high-quality steel (for quality and durability) 360° rotating head with gear system (for easy turning) Holds the load at any point during 360° rotation Lead free paint is applied (for durable and anti-corrosion) The paint is oil, grease and dirt resistant for easy cleaning Mounting head has four adjustable arms with bolt holes for different load sizes Dimensions (L x W x H): 120 x 83 x 121 cm Max. capacity: 900 kg
5	Two Post Lift	Lifting Capacity : 3500 kg Lifting Height : 1800 mm Motor Power : 2.2 kW



9. Automotive Technology

SR. NO.	Description	Specification
6	Automatic Transmission (Rear Wheel Drive) & Torque Converter	4 Speed Rear Wheel Drive Gearbox Position Selector: P-R-N-D-2-L; Gear Ratio: Low 2.8:1; O/D 0.705:1; Rev 2.39:1; FD 4.3:1;
7	Automatic Transmission (Front wheel drive)	4 Speed Front Wheel Drive Gearbox Position Selector: P-R-N-D-2-L; Gear Ratio: Low 2.8:1; O/D 0.705:1; Rev 2.39:1; FD 4.3:1;
8	Continuously Variable Transmission	Position Selector: P-R-N-D-2-L
9	Air Compressor with pipes	PT-10 Motor : 10HP (7.5KW) CYL.NO. : 3 Displacement: 1485 l/min (52.5CFM) Working Pressure: 9kg/cm2 (130psi) Tank Cup. : 304Liter
10	Wheel Balancer	Max. Wheel Diameter 33.1" (840 mm) Max Wheel Width 17.7" (450 mm) Max. Wheel Weight 143 lbs. (65 kg) Shaft Diameter 36mm Max Balancing Speed 245 RPM Balancing Time 9 sec Noise Level when Running < 70 dB (A) Power Supply 110/230V / 50/60 Hz / 1 PH
11	Tire Changer	Type R-2100A Applicable rim diameter (D) 10-12 Inches (Outside clamp) (Depending upon the shape) 13-22 Inches (Inside clamp) Applicable rim width (W) 3-12 Inches Applicable tire outer diameter 900 mm (Max) (35.43 inches) Supply compressed air pressure 780~1180 Kpa(7.8~11.8 bar) Used air pressure 780~980 Kpa (7.8~9.8 bar) Inflator Built-in Bead seater Equipped Power supply AC 400, 3-phase



9. Automotive Technology

SR. NO.	Description	Specification																		
12	Alignment Scissor Lift	Capacity: 12,000 lbs. Lifting Height: 84-1/4" (7' 1/4") Overall Width: 86-3/8" (7' 2-3/8") Overall Length with Approach Ramps: 268" (22' 4") Overall Length without Approach Ramps: 197" (16'5") Approach Ramp Length: 71" (5' 10") 4-Wheel Alignment Wheelbase Max: 168 " 4-Wheel Alignment Wheelbase Min: 90" 2-Wheel Alignment Wheelbase Max: 172" 2-Wheel Alignment Wheelbase Min: 86" Runway Width: 23-3/4" (1' 11-3/4") Lowered Height: 11-1/2" Locking Positions: 19 Width Between Runways: 39" Motor: 220 volt +/- 5% (209-231volts) single (1) phase																		
13	Pneumatic Palm Sander	Grit Type Fine Power Source Air-powered																		
14	Combination Tester	Allowable Wheel Load : 1800 kg Allowable test speed : 50 km/h Roller lock System : Air-driven airbag system Air Pressure used : 50 Mpa																		
15	Portable exhaust gas analyzer (5 Gas Analysis)	<table border="0"> <thead> <tr> <th>Gas</th> <th>Range</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>O2</td> <td>0 - 25%</td> <td>±0.1%</td> </tr> <tr> <td>CO2</td> <td>0 - 20%</td> <td>±0.5%</td> </tr> <tr> <td>CO</td> <td>0 - 10%</td> <td>±0.06%</td> </tr> <tr> <td>HC</td> <td>0 - 9,999ppm</td> <td>±12ppm</td> </tr> <tr> <td>NO</td> <td>0 - 5,000ppm</td> <td>±25ppm</td> </tr> </tbody> </table> Minimum 5 Minutes Warm Up Operating Temperature 5 - 40° C Exhaust Gas Temperature Max.650°C Power Supply: 220 V (50hz)	Gas	Range	Accuracy	O2	0 - 25%	±0.1%	CO2	0 - 20%	±0.5%	CO	0 - 10%	±0.06%	HC	0 - 9,999ppm	±12ppm	NO	0 - 5,000ppm	±25ppm
Gas	Range	Accuracy																		
O2	0 - 25%	±0.1%																		
CO2	0 - 20%	±0.5%																		
CO	0 - 10%	±0.06%																		
HC	0 - 9,999ppm	±12ppm																		
NO	0 - 5,000ppm	±25ppm																		
16	Oscilloscope	Bandwidth 70MHz Sample rate (Real time)1GSa/s Channels Dual Display 8" color LCD, TFT display , 800*600 pixels, 65535 colors																		



9. Automotive Technology

SR. NO.	Description	Specification
17	4 Cylinder Gasoline running with Stand	
18	4 cylinder Diesel Running with stand	
19	Car Diagnosis Box	Autoland i-scan 3e Car Diagnostitic Scanner 8" IPS LCD touch Screen, 12-24 V DC Input, USB2.0(1,4aster),Mini USB(Slave), RJ 45 Ethernet Cable Connector, Interface Module Simulation Adaptors
20	Hand Fork Lift (3-Tons)	manual, hydrauliiic
21	Automobile Electric and Electronic panel board	FXB-122002(Toyota Hiace)motor 3φ,2.2KW 380V
22	Chassis Trainer unit	
23	Rear axle and Differential Trainer Unit	
24	Sectioned Manual Gearbox Trainer	
25	Dual circuit brake training panel	
26	Lighting system training unit	
27	Hydraulic Press	25 Tons
28	Single cylinder disel engine	18 hp
29	Gasoline engine and transmission training set	Size Approx. 1800 x 1800 x 1600 mm Weight Approx. 480kg 2000CC, brake system, Lever, DC 12V, Cooling system, Fuel pump, Exhaust system
30	Common rail direct injection engine and transmission training set	Size Approx. 1800 x 1800 x 1600 mm Weight Approx. 480kg 2000CC, brake system, Lever, DC 12V, Cooling system, Fuel pump, Exhaust system
31	Robin Engine	Single Cylinder, OHV Type, Magneto Ignition, Recoil Starter, Air-cooled, Fixed Venturi Carburetor Splash Type Lubrication
32	Four-cylinder Four-stroke Diesel engine	Pre-combustion chamber, Inter-cooled, turbocharged In-line type, Engine used VE Pump
33	Bench Drilling machine	Bench Drill 12 inch Variable Speed Drilling Chuck 3-16mm For DIY Woodworking Tools with laser / digital



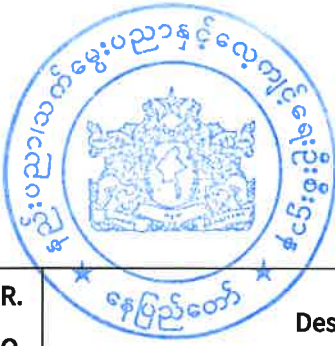
9. Automotive Technology

SR. NO.	Description	Specification
34	Portable Cutting Machine	1500W, 220V, 11000rpm Saw Type : Mini Cutting Machine
35	Arc Welding M/C and Accessories	HONE Stick Welder, 110V/220V Actual 140Amp IGBT Inverter Digital Display LCD Welding Machines with Hot Start Arc Force Anti-Stick, High Efficiency for 1/16"-1/8" Welding Rod
36	Four-Cylinder Petrol Engine (EFI) Running condition	Training Vehicle (4 Cylinder, Petrol, EFI)
37	Four-Cylinder Diesel Engine (EFI) Running condition	Training Vehicle (4 Cylinder, Diesel, EFI)



10. Electrical Engineering Industry

SR. NO.	Description	Specification
1	AC Power Supply	Input voltage: AC – Output voltage: AC 0-250V Maximum output current: 2A Frequency: 50/60Hz Regulation accuracy: $\pm 1\%$ Power factor: 0.8 Insulation resistance: $\geq 5M\Omega$ Dielectric strength: 2000V/min Ambient temperature: -5°C to $+40^{\circ}\text{C}$ Relative humidity: $\leq 90\%$
2	DC Power Supply	Channel 3 independent controllable channels Max output Power 198W Output Range 0-6V / 3A Load Regulation Voltage $\leq 0.01\% + 3\text{mV}$ Current $\leq 0.01\% + 3\text{mA}$ Line Regulation Voltage $\leq 0.01\% + 3\text{mV}$ Current $\leq 0.01\% + 3\text{mA}$ Settings Resolution Voltage 1mV Current 1mA Current 1mA Read Back Resolution Voltage 1mV Current 1mA Settings Accuracy Temperature 0 – 40°C Communication Interface USB, RS232, and LAN
3	Function Generator	Channel single, Frequency Output 5MHz Sample Rate 125MS/s, Vertical Resolution 14 bits Waveform Standard Sine, Square, Pulse, Ramp, and Noise Arbitrary Waveform Exponential Rise, Exponential Fall, $\text{Sin}(x)/x$, Step Wave, and others, total 45 built-in waveforms, and user-defined arbitrary waveform. Frequency (resolution 1 μHz) Sine 1 μHz – 5MHz Square 1 μHz – 5MHz Pulse 1 μHz – 5MHz Ramp 1 μHz – 1MHz Noise 5MHz (-3dB) (typical) Arbitrary Waveform 1 μHz – 5MHz Memory 64M byte Communication Interface USB device



10. Electrical Engineering Industry

SR. NO.	Description	Specification
4	Insulation Tester	Insulation resistance measuring accuracy – $\pm(5\% + 5 \text{ digits})$ AC voltage measuring range – 1...30V/600V AC voltage measuring accuracy – $\pm(2\% + 8 \text{ digits})$ DC voltage measuring range – 1...30V/600V DC voltage measuring accuracy – $\pm(2\% + 5 \text{ digits})$
5	Analog Multimeter	AC Voltage : 10V /50V/250V/1000V DC Voltage : 2.5V/10V/50V/250V/1000V DC Current: 100uA/2.5 mA/25mA/250mA/2.5A Resistance :1/10/100/1k/10k
6	Digital Multimeter	DC Voltage: 60mV~600V, AC Voltage: 60mV~600V, DC Current: 600uA~10A, AC Current: 600uA~10A, W: 600W~6MW
7	LCR Meter	Capacitance: 0.1 pF to 200 mF Inductance: 0.1 μ H to 20 H Resistance: 0.1 Ω to 200 M Ω
8	Digital Clamp Meter	AC current (A) :400A $\pm(2.5\%+5)$ DC current (A): 400A $\pm(2.5\%+5)$ AC voltage (V): 600V $\pm(0.8\%+5)$ AC voltage frequency(Hz): 10Hz~60kHz $\pm(0.5\%+2)$ DC voltage (A): 600V $\pm(0.5\%+2)$ Resistance (Ω): 40M Ω $\pm(0.8\%+2)$ Capacitance (F): 40mF $\pm(4\%+5)$ Frequency (Hz): 10Hz~10MHz $\pm(0.1\%+4)$ Power: 1.5V battery (R03) x 2 Display: 37mm x 25mm
9	Inverter (VFD)	Minimum Rated Voltage (V): 200 Min. Permissible Voltage (V): 170 Maximum Rated Voltage (V): 240 Max. Permissible Voltage (V): 264 Current Type: AC, Phases: 3 Rated Output Current ND (A): 4,2, Rated Motor
10	Three Phase Induction Motor	Type: Forward reverse driving type Output: 1HP(0.75KW) Voltage: 220/440 Number of poles:4



10. Electrical Engineering Industry

SR. NO.	Description	Specification
11	Single Phase AC Motor	6W,200V,50/60Hz,0.120/0.138A,1 μ F,1150/1400 r/min,50°C 6W,220V,50/60Hz,0.113/0.117A,0.8 μ F,1150/1450 r/min,40°C 6W,230V,50/60Hz,0.117/0.120A,0.8 μ F,1200/1450 r/min,40°C
12	DC Geared Motor	Motor Type: Brushed Operating Supply Voltage: 24 V Output Power: 17 W Power Rating: 15.6 W RPM: 21 RPM Termination: Wire Leads Voltage Rating (AC): 24 V/Voltage Rating (DC): 24 V



11. Building Technology

SR. NO.	Description	Specification
1	Wheel Barrow	(D60 x W90 x H30) cm Material-Metal and Portable, Compact Wheel- 12" Tyre
2	Vise (Wood Working)	5" Vise Cast Iron
3	Electric Grinders	No Load Speed -11,000 RPM/Min Disc Diameter -4 inch Voltage -230 V Wheel Diameter -100 mm
4	Portable Sander	Rating Output- 250W Sanding pad diameter- 125mm Oscillating circuit diameter-2.5mm No-load speed 7,500 - 12,000 rpm Orbital stroke rate 15,000 - 24,000 opm Eccentricity 1.25 mm Sanding sheet / disc attachment hook-and-loop fastening
5	Portable Router	Motor speed: 30000rpm Motor power: 800W and Voltage:110V Milling cutter shank:1/4 inch or 6.35mm Trimming diameter:1/4 inch or 6.35mm Motor material: resistant copper wire motor Shell material: aluminum case 1 set of 15pcs milling cutter set
6	Portable Drilling, Mortise machine 550W	Motor power Rating- 750W Output-550W,Voltage 220V Motor speed - 2840 rpm Open the knives(3 Nos) - 3/8",1/2 "and 5/8" Workbench size - 220*160 mm Maximum opening depth - 128 mm Drill chuck - Φ1-Φ16
7	Portable Planer	Rabbit- 11/32 Planing Depth -3/32 Planing Width -3 1/4 Component-Metal/plastic Revolutions per Minute 17,000 Double edged mini planer blade, blade gauge assembly socket wrench 9 , rule guide and plastic carrying case



11. Building Technology

SR. NO.	Description	Specification
8	Drill presses	Impact Energy: 16.8 Joule Impact Rate: 900-1890 bpm Power Input: 1500 watt Tool Holder: SDS-Max Vibration (Chiselling): 18.5 m/s ² Vibration Uncertainty (Chiselling): 2 m/s ² Includes: Auxiliary handle, Grease tube RTec Sharp flat chisel, Carry Case
9	Prismatic Compass	Telescope-Reversible, erect, 12X 120mm long and 5'/2mm Horizon Circle-5"O-BAC"Zero Setting Compass Circle- Dia.=70mm, 1° Full Circle- 1°
10	Automatic Level with Tripod (Complete Set)	Telescope Length 215 mm, Stadia 0-100, Magnification 32x/Objective Aperture 42mm Resolving Power 3", Field of View 1°20' Including Tripod, Bar code Staff, Survey Hammer, 100ft Measuring Tape, Plumb Bob.
11	Digital Theodolite with tripod (Complete Set)	Telescope Length : 152 mm, Objective lens : 45 mm, Magnification : 30x power, Field of view 1°30', Water proof-IP66 Angle measuring accuracy-5" Angle display-1"/5" Angle unit-360°/400G Compensation range ±3' Including Tripod, Bar code Staff, Survey Hammer, 100ft Measuring Tape, Plumb Bob.
12	Cutter Grinder	Cut-Off Machine 14" Wheel Dia: 3800 RPM Max Blade Speed: 220V AC
13	Water Pump	(1/2 HP)
14	Portable Electric Hand Drill	Portable Electric Drills 110V - 60Hz . Impa : 59 10 01 - 59 10 17 . Max. Drilling Diameter : 16mm . Size : 6.5-16.0mm . No-Load Speed : 330-2700RPM . Rated Voltage : 110V/220V Special : Available : 110V-60Hz), Frequency : 50 / 60Hz Rated Input Power : 305-1600W



11. Building Technology

SR. NO.	Description	Specification
15	Hand Circular saw	Rated input power 1250 W Saw blade diameter 184 mm No-load speed 5,500 rpm Saw blade bore diameter 20 mm Max. cutting capacity in wood (90°) 67 mm Max. cutting capacity in wood (45°) 49 mm
16	Compound Mitre saw	Max. Bevel Angles (L/R)-45° - 0° Max. Cross Cut- 60 x 310 mm Max. Mitre Angles (L/R) -45° - 0° - 45° Mitre Saw Bevel Slide -Sliding Mitre Stop Angles -0, 15, 30, 45 ° No Load Speed 5000 rpm Power Output (Watts/Kw)- 1500 W Power Supply -Electric
17	Jig saw	Cutting Capacity- Soft Wood 5-7/8" Cutting Capacity-Aluminum 0.875 Cutting Capacity-Mild Steel 0.375 Dust Blower, Dust Collection Height in 8.43",Hertz 60 Jig Saw Blade Type- Jig Saw T-Shank Length-14.0" Max. Bevel Capacity (°) 45.0 Max. Bevel Cut 45° No Load SPM-500-3,100, Rating -120V Stroke Length (in)-1.0,Tool Level- 2-Corded - variable speed intermediate
18	Portable Planer machine	Amperage -6.5 Height in 6.5", Length in 11.4" No Load RPM - 16,500 Planing Depth- 0" - .0625" Planing Width - 0" - 3.25" Rabbet Depth - 5/16", Rabbet Width-3-1/4" Planer Attachments and Planer Blade
19	Arc Welding Machine (AC /DC Inverter Welder)	Rated input voltage 220v. Max Load Power capacity 7.1 KVA Rsted output voltage 32V Rated Output current 195A



11. Building Technology

SR. NO.	Description	Specification
20	Window Type Air-Conditioner	1HP, (R-410a), (Cooling Capacity : 8750Btu/h)
21	Split Type Air-conditioner	1HP, Inverter (R-32)
22	Split Type Air-conditioner	1.5HP, (Heating & Cooling)
23	Floor Standing Air Conditioner	3HP, Non Inverter (R 410a)
24	Split Type Air-conditioner	2HP, (Heating & Cooling)
25	Refrigerator	1door, 92L, 33", R 600a



12. Electrical Technology

SR. NO.	Description	Specification
1	Digital Multimeter	DC Voltage: 60mV~600V, AC Voltage: 60mV~600V, DC Current: 600uA~10A, AC Current: 600uA~10A, W: 600W~6MW
2	Analog Multimeter	AC Voltage : 10V /50V/250V/1000V DC Voltage : 2.5V/10V/50V/250V/1000V DC Current: 100uA/2.5 mA/25mA/250mA/2.5A Resistance :1/10/100/1k/10k
3	Electric Hand Drill	AC 220V, 500W
4	Electric Hammer Drill	AC 220V, 720W
5	DC Cordless Drill	DC 18 V
6	Clamp Meter (Digital)	1000 A, CAT IV 600V
7	Insulation Resistance Meter (Megger)	Digital, Handheld Insulation Resistance Tester, Test Voltages of 100 V, 250 V, 500 V, 1000V, Large digital LCD display
8	Earth Tester	Earth Ground Resistance Tester, Digital, Test Voltages of 0 to 2000Ω
9	PLC LOGO!8 Training Kit	LOGO 230 RCE logic module, SIMATIC HMI 9" with software, Proximity Sensor: Inductive(PNP), Capacitive (PNP) & Photo Electric Sensor, Ethernet cable, LOGO Soft Comfort software–latest, full version
10	Magnetic Contactor	220V AC, 32 A, 1NO+1NC, Screw Terminal
11	Overload Relay (32 A, 1NO+1NC)	
12	DC Cordless Drill	12 V
13	Megger meter	500 V to 2500 V Digital
14	LOGO!8 Training kit	LOGO 8 PLC Logic Module Display Ethernet Web 12/24 RCE With LOGO DC Power supply
15	Capacitive Proximity sensor	
16	Inductive Proximity Sensor	
17	Photo Electric Sensor	
18	AC Voltage Regulator	0–500 V, 5000 W
19	DC Power Supply	0–36 V
20	Single Phase Induction Motor	230 V, 2 HP, 50 Hz, 2 value capacitor
21	Three phase Induction motor	Star-Delta, Insulation class B, 1440 RPM, 4A, 220V /440V, 50 Hz



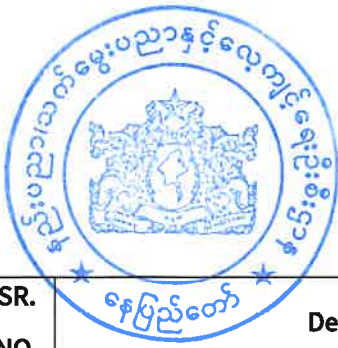
13.Machining Technology

SR. NO.	Description	Specification
1	Bench Drill Press	Φ13mm(1/2") Motor Power 700W Chuck Capacity 1.5-13mm
2	Electric Hand Grinder	Voltage: 220V,600watt Rpm : 11000 Rated Power Input: 720W No-load Speed: 13000/min Max. Wheel Dia: 100mm(4 inch)
3	Electric Hand Drill	Voltage: 220-240V,350 watt Speed Type: Variable Speed No-Load Speed: 3000RPM
4	Metal Shear (Hand Lever)	Max; Rod Steel: 1/2"(13 mm) Max; thickness at full length: 3/16"(4.75mm) Blade length: 12"(304.8mm) Sheet Steel Thickness: 1/4 inch(6mm) Fat Steel Size: 2-3/4 inch x 1/4 inch(70 x 6 mm)
5	Anvil	Cast Steel Anvil Blacksmith Forge Dimensions:25 1/2" long, is 9 1/2" high and the base is 9 1/2" wide by 11 1/4" long. Weight: 120 Lbs
6	Oxygen Cylinder with Regulator	Material 34CrMo4 Outside Diameter 232mm Water Volume 40L
7	Acetylene Cylinder with Regulator	Material Steel, HP295 Water Volume 40L
8	Universal Indexing Head Combined Tail Stock	Style: Universal Swing:10½" Swing:10 1/2" Center Height 5.24" Hole Through Spindle:0.985" Head Stock Taper: 10B&S
9	Milling Machine Vise	Width of Jaw: 125mm Height of Jaw: 45 mm Total Height: 152 mm Max. Opening: 95mm
10	Milling Adapter	
11	Collect Chuck Set	
12	Induction furnace	Power (35 kW), Capacity (30kg for Al), (15kg for Iron)
13	Bench Grinding Machine	Voltage: 110V-240V, 230V-50Hz Motor power: 750W No-load speed: 2950/min Wheel size: (175X25X32)mm



13.Machining Technology

SR. NO.	Description	Specification
14	14" Cutting Machine	Voltage: 110V-240V, 230V-50Hz Motor power: 750W No-load speed: 2950/min Wheel size: (175X25X32)mm Max. Blade Speed: 3,800 RPM. 220V AC, 15 A Current
15	Arc Welding Machine (Ac /Dc Inverter Welder)	Rated Input Voltage:220V/250amp Rated Duty Cycle @40°C: 60 Max. Load Power Capacity:7.1 KVA Rated Output Voltage: 32V Rated Output Current: 195 A Welding Current/Voltage Range: 0-100A Pulse Frequency: 50/60HZ"
16	Spot Welding Machine	Max. Welding Thickness (mm): 2+2 Input Voltage: 230 V Rated Power: 2.3 kW Max. Absorbed Power: 13 kW Dimensions: 440x110x185 mm
17	Lathe Machine	Distance between centers-350mm Swing over bed-180mm Chuck diameter-80mm, Spindle bore-20mm Cross slide travel-65mm, Tool slide travel-35mm Spindle speed-50-2500 Power of motor-550w Voltage/Frequency-230V/50Hz Complete Accessories(Turning, Parting, Boring, Threading Holders and Inserts)
18	Vertical Milling Machine with Machining Vice, Milling Adapter, Collect Chuck Set	Cross Travel- 8" Longitudinal Travel: 17-5/16" Maximum Distance Spindle to Table- 20" Model Number- VM-22-R8 Motor: 1-1/2 HP, 115/230V, 1 PH Quill Diameter : 3-3/8" Quill Trave: 3-1/8" Spindle Speeds : (9) 270 to 3,200 RPM Spindle Taper: R8 Table Size: 31-1/2" x 7" Vertical Knee Travel: 21-1/2"



13.Machining Technology

SR. NO.	Description	Specification
19	Lathe Machine	Max. Turned Length (mm): 850 Spindle Bore(Mm): 52 Voltage: 380v Lathe Bed: 1400 mm Bed Width: 186 mm Spindle Speed Steps: 10 Range Of Spindle Speed(R.P.M):40 – 1400 R.P.M Swing Diameter Over Carriage: (315mm)



14. Electronics Technology

SR. NO.	Description	Specification
1	DC Drill	DC 24V, 5 A, 0 to 450 rpm, Drill Chuck 10mm
2	Hand Grinder	670W, 220V, 600-11000R/MIN Disc Diameter 100mm AC 220V
3	Programmable Logic Controller LOGO!8	4 input, 4 output
4	DC Power Supply for Logo!8 PLC	Input 220V, Output DC 24V, 10A
5	Arduino UNO Kits	Sensors {Temperature <digital and analog >, Gas, Flame, Hall effect, Soil Moisture, Proximity < Inductive and Capacitance >, Flex, Ultrasonic, Light, PIR, Humidity, etc...} Jumper wires (male to male, male to female, female to female) LEDs (Light Emitting Diode)



15.OFFICE Equipment

SR. NO.	Description	Specification
1	Motoerised Screen 8'x8' (PRO Series)	Remote Control Motor Speed: 17 RPM Remote Sensitivity distance-15m Sensor Coverage: 160 deg (H), 150 deg (V)
2	Tripod Screen (84"x84")	
3	Motoerised Screen (144"x144")	
4	Motoerised Screen (192"x192")	
5	Projector	4200 Lumens XGA 1024 x 768 4,200 ANSI Lumen 5,000 Hour Normal Lamp Life 20,000 Hour Dynamic Eco Lamp Life 25,000:1 Contrast
6	Projector	4500Lumens XGA 1024 x 768 4,500 ANSI Lumen 5,000 Hour Normal Lamp Life 7,000 Hour Eco Lamp Life 20,000:1 Contrast
7	Projector	3800 Lumens XGA 1024 x 768 3,800 ANSI Lumen 10,000 Hour Normal Lamp Life 20,000 Hour Eco Lamp Life 20,000:1 Contrast
8	Water Dispenser(Hot & Cold)	
9	1000L/Hr Purified drinking water treatment with RO System	
10	Air Compressor	3 HP
11	Compressor	4", (2)လုံးထိုး
12	Motor	2 Hp
13	Water Pump	0.75 Hp
14	Water Pump	2 Hp
15	ရေမြှုပ်ပုံနံ့ (3 Hp Submersible pump for 4" Tubewell)	
16	1" Jet Pump (1hp)	
17	2" Jet Pump(2hp)	



15.OFFICE Equipment

SR. NO.	Description	Specification
18	Inverter	1000W
19	Inverter (2000W) with 12 V Battery(2)Nos	
20	Solar System	Inverter: 48V/6KW ; 500V, 100A, 2-MPPT (1No) Solar Panel: Tiger Pro 72HC, Mono-Facial Module 550 Wp (12Nos) PV Support Structure: Aluminium Alloy Roof Mounting (6600Wp) PV Cable: 2 Core, Copper/XLPE; 20m/String (Depend on Site) (50m) PV Connector: MC4 Connector (1Set) Battery: 51.2V/200Ah, 10.24kWh, Power Pro (1Set) Battery Cable: 2 Core, Copper/PVC (Depend on Site) (2m) AC/DC Combiner Box: PV Disconnecter, Fuse Switch, Change Over Switch, DC SPD, AC Input/ Output Breaker, AC SPD, Battery Breaker (1Set) AC/DC Combiner Box: PV Disconnecter, Fuse Switch, DC SPD (1Set) Earthing System: Earth Rod, Earth Cable & Accessories (1Set)
21	ရုံးသုံးမီးစက်	220 V/50Hz Max Power 5.5kW
22	Generatar	10 KVA, Sound Proof
23	မြက်ရိတ်စက်(ဘေးလွယ်)	Max power output-1.6 hp/ 7000 rpm,Engine type-4 stoke
24	Generator	25 KVA
25	Desktop Computer	Intel Core i7-12700Processor,1x8GB DDR4 3200 +3 Slots (Up to 128GB) 528GB SSD M.2 2280 PCIe® 3.0x4 NVMe® Opal, Window 11 Home, Integrated Intel® UHD Graphics 770, Realtek® Wi-Fi® 6 RTL8852BE, 11ax 2x2 + BT5.1 Monitor Screen Size: 21.5", UPS 650VA, Key Board & Mouse
26	Desktop Computer	Intel Core i5-12400Processor, 1x8GB UDIMM DDR4 3200 +3 Slots (Up to 128GB) 528GB SSD M.2 2280 Pcle® 3.0x4 NVMe® Opal, Integrated Intel® UHD Graphics 730, Intel® WiFi® 6 Ax201 , 11ax 2x2 + BT5.1, Monitor Screen Size: 21.5", UPS 650VA, Key Board & Mouse



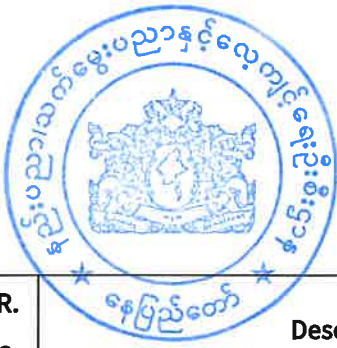
15.OFFICE Equipment

SR. NO.	Description	Specification
27	Color Printer Inkjet (A4),G6070	Print Speed (A4): 9.0 ipm black/ 5.5 ipm colour Wireless, Wireless Pictbridge, Mopria,AirPrint, Direct Wireless Recommended print volume: 10-50 pages
28	All in One Inkjet Color Printer (Print, Scan, Copy)	
29	Digital Multifunction Copier with Feeder	2x550 Shts Universal Cassette, 1x100 Shts Stack Bypass STD: 2GB Memory (30GB EMMC), 7 inch TFT LCD WVGA Color Touch Panel 600x600 dpi Copy/Scan Resolution & 1200x1200 dpi Printing Resolution Standard Feature: Copier, Printer, Scanner, Ethernet Network & Remote UI, Scan to E mail, Wireless, Mobile Print 25 PPM, 25-400% Zoom, A3 Size
30	Laser Printer LBP-121Dn (A4, Black & White)	
31	Document Scanner (DR-C225 II)	Color Document Scanner (A4/Legal) Duplex/Simplex, Skip Blank Page 30-Sheet Capacity ADF Up to 600 dpi resolution Accepts documents up to 216 x 356 mm (8.5 x 14 in) 25 PPM
32	Binding Machine	Building Style : Wire Bind Documents Size : A4 Punch Capacity : 15 Sheet Bind Capacity : 125 sheets Dimension LWH: 400 x 330 x 130 mm
33	Paper Shredder	Cutting Style: Cross Cut Shred Capacity: 13 sheets Bin Capacity: 23 Litres Dimension: 375x255x370 mm
34	Paper Cutter	Sheet Capacity : 10 sheet Cutting Length: A4 -305mm (12")
35	Lamination Machine(A3)	Max. document size : A3 Warm-up time (min) : 5 Speed (mm/min) : 330



15.OFFICE Equipment

SR. NO.	Description	Specification
36	Video Camera	4K HDR XDCAM with Fast Hybrid AF Single 1" Exmor RS CMOS Sensor UHD 4K (3840 x 2160) up to 30p 4K HDR with Hybrid Log-Gamma (HLG) 3G-SDI Output, 2.4/5 GHz Live Streaming Phase-Detection Autofocus (AF) Zeiss 12x Optical / 18x Clear Image Zoom Records MPEG-2 HD with Optional License XAVC HD / OFHD Recording
37	Digital Multifunction Copler	18 ppm Print Speed 600 x 600 dpi Scan Resolution 600 x 600 dpi Print Resolution 50% to 200% Zoom USB, Ethernet, 64 MB Image Memory 250 Sheets Paper Tray 100 Sheets Stack bypass Black & White A3 Size
38	Lamination Machine(A4)	Max. document size : A4 Warm-up time (min) : 1.5 Speed (mm/min) : 500
39	PA System & Accessories	Conference system controller -1No Conference Extension Controller -1No 2 Channel Stereo 8Ω: 2*700W Amplifier - 1No Delegate MIC - 99Nos Chairman MIC unit - 1No Audio Processor, AFC feedback suppression function, equipped with 2 network ports for connecting wireless AP and communicating with the conference server - 1No 14 Channels Mixer - 1No Professional 4 Channel Digital Audio Processor, 4 Inputs - 1No Stereo Feedback Suppressor, built-in DSP processor-1No True Diversity UHF Wireless Mic, two handheld mics-1Set 10" Professional Two Way Loudspeaker, 300W @8Ω With Bracket - 4Sets 12" Professional Two Way Loudspeaker, 350W @8Ω With Bracket - 2Sets



15.OFFICE Equipment

SR. NO.	Description	Specification
40	Sound System and Accessories	14 Channels Mixer, 4 groups output, with MP3 player and 24-bit DSP (1 No) Professional 4 Channel Digital Audio Processor, 4 Inputs (1 No) Stereo Feedback Suppressor, built-in DSP Processor (1 No) True Diversity UHF Wireless Mic, two handheld mics (1 No) 2 Channel Stereo 8Ω: 2*700W; with variable oscillator modulation technology, multiple feedback control technology and innovative output power control technology of over 95% ultra-high efficiency and excellent stability for the amplifier (3 Nos) Male XLR Head-Female XLR Head Audio Cable, 1.8m (10 Nos) 10" Professional Two Way Loudspeaker, 300W @8Ω, Black Color (4 Nos) Professional Loudspeaker Wall Mounted Bracket, Suitable for Loudspeaker ≥10", black color (4 Nos) 12" Professional Two Way Loudspeaker, 350W @8Ω, Black Color (2 Nos) Speaker Cable 100M (3 Nos) 1250VA UPS (1 No)
41	Binding Machine	Binding Style:Financial Binding Punch diameter:5.2mm Adjustable Spacing: 9 -28 mm Binding Thickness:38mm
42	Document Scanner	Document & Flabed Scanner 40ppm,80ipm Single Pass Dupiex ADF Scanning 1200ppi Output Resolution 45 to120 gsm 100 sheet Input Tray 216x5326 mm ADF Scan Size 16x 356 mm Flatbed Scan Size (Legal) 6000 Daily Duty Cycle



16.Furniture

SR. NO.	Description	Specification
1	ကျောင်းသား/ကျောင်းသူသုံးစာသင်ခုံ (၁)ယောက်ထိုင်(ထိုင်ခုံအပါ)	
2	ပုံဆွဲခန်းသုံးစားပွဲ(ထိုင်ခုံအပါအဝင်)	(W900 x D600 x H1925)mm
3	Computer Table	
4	Computer Chair	
5	ကျောင်းသား/သူအဆောင်သုံး စားပွဲ	
6	ကျောင်းသား/သူအဆောင်သုံး ထိုင်ခုံ	
7	စာသင်ခန်းသုံး white Board	(16'x4')
8	White Board	(8'x4')
9	Whiteboard With Stand	(8'x4')
10	ဖိုင်တင်စင် (open file Shelf without door)	(W914xD316xH1807)mm
11	စာအုပ်စင်	(6'x4'x2.5)
12	စကားပြောစင်	(4'6"x2'6"x2')
13	အလုပ်ရုံသုံးပစ္စည်းတင်စင် (5 Shelf)	(L6' x W1.5' x H6')
14	ရုံးသုံးစီရို	(W 914 x D 470 x H 1817) mm
15	ရုံးသုံးမှန်စီရို	(W 914 x D 470 x H 1817) mm
16	စာကြည့်တိုက်သုံးမှန်စီရို	
17	စာကြည့်တိုက်သုံးစာဖတ်စားပွဲ	
18	အရာရှိစားပွဲ	(5'X3'X2'6")
19	အရာရှိထိုင်ခုံ	
20	စာသင်ခန်းသုံးဆရာစားပွဲ	(4'x3'x2'6")
21	စာသင်ခန်းသုံးဆရာထိုင်ခုံ	
22	အစည်းအဝေးခန်းသုံးစားပွဲ	
23	အစည်းအဝေးခန်းသုံးထိုင်ခုံ	
24	တွဲနှင်းသဘင်ထိုင်ခုံ	
25	Waiting Chair (3 Seaters)	Size – 68" x 16" x 19"
26	ခါတ်ခွဲခန်းသုံးစားပွဲ	(L1500 x W900 x H850) mm
27	ခါတ်ခွဲခန်းသုံးထိုင်ခုံ	Size- Dia 320x H 480/580mm
28	လက်တွေ့ခန်းသုံးဆွဲခုံစားပွဲ	(L1500 x W900 x H850) mm



16.Furniture

SR. NO.	Description	Specification
29	အလုပ်ရုံသုံးစားပွဲ	(8'x4'x3')
30	အလုပ်ရုံနှင့်လက်တွေ့ခန်းသုံးထိုင်ခုံ (Stool)	
31	4 Drawer Cabinet	(W463 x D620 x H1324) mm
32	Locker 12 Holes	(W914 x D470 x H1817) mm
33	Stage ခုံ	(8'x4') (1' အထူ)
34	တစ်ယောက်အိပ်ကုတင် (ခြင်ထောင်တိုင်အပါ)	(6'x3'x1'6")
35	သဟာရထိုင်ခုံ	
36	Multipurpose ထိုင်ခုံ (Hall ခန်းသုံးရန်)	
37	သစ်သားဖိုင်တင်စင်(အကြီး)	(8'x1'6"x6')
38	သစ်သားဖိုင်တင်စင်(အသေး)	(4'x1'4"x6')
39	Aluminium Ladder	(6')
40	Aluminium Ladder	(13')
41	Double Sided Aluminum Ladder	(5')
42	Working bench	SIZE (inches) 72"L x 36"w x 32"H 1-1/2" Planking and Wood Leg Working bench
43	Work Bench	Wooden(L x W x H) 6' x 2 1/2' x 2 1/2'
44	Open Book Shelf (5'x6'x1'4")	Shelf (20x20)mm Hollows & 16mm Board Frame (25x50)mm Hollow
45	စာကြည့်တိုက်တွင်ထားရှိမည့်ပရိဘောဂများ Back Drop with WPD Bio Wood	GW- 168A 2900H 25mm Thickness
46	Divider Wall Strip with WPC Bio Wood	4"x2" 2900H
47	Lobby Bench and Plant Box	2900 L x 400 H
48	Chair	
49	16Pax Study 30Hollow Desk	7200*1200*750
50	Chair	
51	Reading 40Hollow Desk Chair	2700*600*750