

နည်းပညာတက္ကသိုလ် (မှော်ဘီ)

Lot (4) လက်တွေ့ခန်းသုံးပစ္စည်းများ

SR NO	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)	DEMANDED	
		QTY	
1	2	3	
1	Drone Djl Phantom 4 Pro Intermediate Drone - The DJL Phantom 4 Professional with,New Features - Improved Obstacle Avoidance System Ptrevents Crashes - Improved 30 Minute Flight, and Flight Range 4.3 Miles(7KM) - New intellgent Flight Modes For Flexibility + Variety - New Camera Shoots 4K UHD	1	no
2	High Definition Core Aligning fusion Splicer TYPE -82 C	1	no
3	Cisco Server UCSC C220 M5SX Rack Server 32 GB DDR 4nos, 1.2TB HD 2nos, SNTC 8X5XNBD UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, P Cisco UCS 770W AC Power Supply for Rack Server Friction Rail Kit for C220 M4 and M5 rack servers C220 M5 Security Bezel 2.2 GHz 4114/85W 10C/13.75MB Cache/DDR4 2400MHz Cisco 12G Modular RAID controller with 2GB cache Intel X710-DA2 dual-port 10G SFP+ NIC	1	Set
4	Cisco Router ISR4431/K9 Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB) CON-SNT-ISR4431K SNTC-8X5XNBD Cisco ISR 4431 (4GE,	1	set
5	MaxTester 730C PON/METRO OTDR EXFO (Canada Brand) OTDR Model No: MAX-720C-SMI-XX	1	set

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1	2	3	
6	POE Switch with 10G Uplink C9200L-24P-4X-E C9200L-DNA-E-24-3Y CON-SNT-C920024X	1	set
7	Cisco Wireless Controller AIR-CT3504-K9 Cisco 3504 Wireless Controller LIC-CT3504-1A Cisco 3504 Wireless Controller 1 AP Adder License CON-ECMU-LICCTCTA SWSS UPGRADES Cisco 3504 Wireless Controller 1 AP Adde	1	set
8	Cisco Wireless Acss Point AIR-AP2802I-S-K9 802.11ac W2 AP w/CA; 4x4:3; Int Ant; 2xGbE S Domain CON-SNT-ARAPSIK9 SNTC-8X5XNBD 802.11ac W2 AP w/CA; 3x4:3; Int Ant; 2xG	6	Nos
9	Omron Collaborative Robot Including vision System - model-TM5-700 -Omron Robot Stand - Gripper for Omron Robot	1	nos
10	TDSMGT Mechatronics Training kit with IOT system - Includinh Cp1L PLC 40 IO Training kit Brand- TDSMGT Model- MIM-1620 TDSMGT IIOT	2	no
11	ABB Robot Vision System -ABB Smart camera -Camera firmware: Required 4.08(22), Recommended 4.10.2 (DSQC1020, DSQC1021 and In-Sight Micro 1402) or 4.9.4 (AE3 YuMi Smart Gripper) - Related compatible peripherals.	2	nos

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1	2	3	
12	<p>Light Meter</p> <ul style="list-style-type: none"> -Wide range to 40,000Fc or 400,000 Lux with max resolution to 0.01 Fc/Lux -Relative mode indicates change in light levels, peak mode captures highest reading -Remote light sensor on 12" (30.5cm) coiled cable - expandable to 24" (61cm) -Utilizes precision photo diode and color correction filter -Large LCD display with analog bargraph -Backlight for readings in low light levels -Complete with 9V battery, light sensor with protective cover, protective holster. and soft case 	2	nos
13	<p>FAS-230 Linear Transfer for 4 Stations</p> <ul style="list-style-type: none"> - Linear transfer for 4 stations 	1	nos
14	<p>Modern Control Systems Trainer</p> <ul style="list-style-type: none"> - Microprocessor - DC Servo System - Pump systems - Sensors - compatible Software package 	1	nos
15	<p>SIF-401 Station with Energy Data Reception (EDR) and WIFI AP</p> <ul style="list-style-type: none"> - The Containers are place on the pallet by means of electronic actuators and agravity positioner . All pallets include an RFID tag that allows for their identification and traceability throughout the system. 	1	no

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16	<p>SIF-402 Container Filling (Solid)</p> <p>- The raw matetial can be of three different colours(red,blue and yellow)and can be supplied independently or mixed,in different doses.Once the containers are filled,the amount of material introduced into the container is checked.</p>	1	no
17	<p>SIF-405 Capping System</p> <p>- The caps are stored in two interchangeable feeders,for circular and square section caps.A pneumatic part type detection system recognized what type of cap is in each feeder. The number of parts in each feeder is know in real time, detecting if either feeder is empty. A machine vision camera verifies that the cap has been fitted in the</p>	1	no
18	<p>SIF-406 Container Warehouse</p> <p>- This sation acts as a warehouse for finished or semi-finished products.It can store 50 containers and their corresponding pallets. The warehouse allows the containers to be introduced,extracted and moved internally according to the needs of the process.</p>	1	no
19	<p>SIF-407 Container Labelling and Dispatching</p> <p>- First of all it prints QR labels that are stuck on the containers. A machine vision systems inspects the code to link it to the RFID of the corresponding pallet and ensure the correct placement of the label. Additionally,the station dispatches the correctly finished containers for unit product orders.</p>	1	no
20	<p>FAS-220 Pallet Transfer Station</p> <p>with Siemens PLC</p> <p>- This station transfers the pallet with the work -piece from one transfer to another in a parallel configuration. The trobleshooting simulation system TROUB-200 is included,which generates up to 16 different breakdowns to be diagnosed by the user.</p>	1	nos

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1	2	3	
21	FAS-216 Storage Station with Siemens PLC - PLC Siemens S7-1200 - TURBO-200 Simulation System (Simulation System)	1	no
22	Electrical Machine Trainer - For this purpose the winding ends are connected to 4mm safety socket in a metal housing on top of which a clear synoptic diagram is engraved as an educational terminal board, The student can easily understand operation and winding connection .Also most of the accessories and instruments designed in panel System A4 is high in standard. The machine's power is approximately a maximum of 400W, as the supply requirement for the system operation requires	1	nos
23	Industrial Grade rexroth hydraulic Training System	1	nos
24	NI Power Electronics Training System - NI Elvis Main Board - NI Multisim - Power Electronics Training Board - Energy System Board	2	nos
25	NI Vision System - Image Acquisition - Machine Vision & Automation - Scientific Imaging	2	nos

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SR NO	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)	DEMANDED	
		QTY	
1	2	3	
26	Omron Industrial Electronic and Electrical Trainer with Training Desk Details Omron Product Part - Omron Inductive Proximity Board (E2E- X5E1 NPN No) - Inductive Proximity Bard(E2E-X10ME1 NPN No) - Omron Capacitive Proximity Board (E2K- X8ME1 NPN No - Liquid Level Sensor Board(E2K-L13MC1 - Omron Photoelectric Sensor Board (Through- beam)(E3z-T61 NPN)	1	nos
27	Omron Servo 1 Training kit Package with Omron PLC& Touch Screen	2	nos
28	Spectrum Analyzer, 3 GHz N9320B-AMA AM/FM demodulation metrics N9320B-DMA ASK/FSK Demodulator metrics	1	no
29	RF Signal Generator 9kHz to 3 GHz	1	no
30	Real-time Spectrum Analyzer, 9 kHz to 3.0 GHz	1	no
31	RF Demo Kit (Transmitter) for Spectrum Analyzer	2	no
32	RF Demo Kit (Receiver) for Spectrum Analyzer	2	no
33	Analog Signal Generator 9 kHz to 4 GHz	1	no
34	Network Analyzer 300 kHz to 1.3 GHz	1	no
35	Modern Control Systems Trainer	1	no
36	Oscilloscope BW-100MHz, 2+1 (external)channels, 1GS/s, 12bits vertical resolution, 55000 wfms/s, 20M record length, USB, LAN	4	nos
37	Digital Signal Processing Training Kit (with DE2-115)[2] + Teaching Slides + Lab Sheet	1	no

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SR NO	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)	DEMANDED	
		QTY	
1	2	3	
38	Electromagnetic Theory Training Kit	1	no
39	Mobile Communications + Training Kit + Teaching Slides + Lab Sheet	1	no
40	RF Principles and Measurement Training Kit + Teaching Slides + Lab Sheet	1	no
41	Digital RF Communications Training Kit + Teaching Slides + Lab Sheet	1	no
42	Digital Modulation Techniquis Training Kit + Teaching Slides + Lab Sheet	1	no
43	Antenna and Propagation Training Kit + Teaching Slides + Lab Sheet	1	no
44	RF Circuit Design Training Kit + Teaching Slides + Lab Sheet	1	no
45	Electronic Instrumentation and Measurement + Training Kit + Teaching Slides + Lab Sheet	1	no
46	Optical Time-Domain Reflectometer(OTDR)Single mode:1310nm/1550nm/1625nm Dynamic Range: 37/35/35dB Including Launch Cable & Optical Cleaning kit	1	no
47	Optical Fiber Fusion Splicer	1	no
48	Optical Multimeter	1	no

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1	2	3	
49	RF Power/Peak Power Meter RF power 10KHz to 40GHz; RF Voltage 10Hz to 2.5GHz, Dual channel Peak Power Sensor 50/500MHz to 18GHz, -24dBm to +20dBm CW power sensor Average diode power sensor, 500KHz to 18GHz, -70 to +20dBm RF Voltage Probe Kit 10 KHz to 1.2Ghz, dynamic range of 200uV to 10V	1	no
50	RF Power Meter 10Khz to 100GHz, Dual channel Power Sensor Average Diode Power Sensor, 10KHz to 8GHz, -60 to +20dBm	1	no

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SR NO	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)	DEMANDED	
		QTY	
1	2	3	
51	<p>Modern control system trainer (KALF01)</p> <p>Microprocessor: Processor</p> <p>DC Servo : At 12V</p> <p>No-load speed:200rpm</p> <p>No- load current:0.15A</p> <p>Stall current:5.5A</p> <p>Stall troque:21 kg-cm</p> <p>Max output power: 10 W</p> <p>Pump : Motor voltage: 12VDC</p> <p>Motor current: 200.300mA</p> <p>Flow rate:up to 100mL/min</p> <p>Flow sensor : Hall Effect,Pulse output</p> <p>Distance Sensor: Resolution: 1mm</p> <p>Maximum rage: 400 cm</p> <p>Minimum rage : 4 cm</p> <p>Interface: PC communication</p>	1	nos
52	<p>Eisco Labs Demonstration</p> <p>Motor Generator Activity</p> <p>Model (AC/DC) - Hand Powered</p> <p>Pard Number : PH1245N8</p> <p>Number of Items : 1</p> <p>EAN : 0849230054090</p>	5	nos

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1	2	3	
53	Ohm's Law Apparatus, For Laboratory Specification; - Output waveforms:Sine,Square and Traingle TTL/CMOS -Frequency:0.1Hz to 2 Mhz - Amplitude: 20 VP-P - Impedance: 50 Ohm -Attenuation : 20 dB,40 dB - DC offset:±10V	5	nos
54	function generators/counter	3	nos
55	Oscilloscopes (Digital)	3	nos
56	high performance DC power supply	3	nos
57	three-phase autotransformers	3	nos
58	power electronics converters	3	nos
59	isolators	3	nos
60	power meters	3	nos
61	multiple combinations of switches	3	nos
62	different types of electrical Loads	3	nos
63	Omron Industrial Electronic and Electrical Trainer with Training Desk Details Omron Product Part - Omron Inductive Proximity Board (E2E-X5E1 NPN No) - Inductive Proximity Bard(E2E-X10ME1 NPN No) - Omron Capacitive Proximity Board (E2K- X8ME1 NPN No - Liquid Level Sensor Board(E2K-L13MC1 Omron Photoelectric Sensor Board (Thru-hole type) (E2E-TC1 NPN)	1	no

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1	2	3	
64	<p>Omron Vision Sensor (FQ2) Training Kit</p> <p>Details Product Parts</p> <ul style="list-style-type: none"> - Vision Sensor Omron (FQ2-S200050F) -Touch Finder Omron (FQ2-D30) - FQ Ethernet Cables(FQ-WN002) - I/O Cables (FQ-WD002) - Power Supply for Sensor (S8VK-G06024) - Fiber Optic Amplifier (E3X-HD6) - Fiber Optic Connector(E3X-CN11 OMS) -Fiber Optic Cable (E32-DC200E 2M) - Training Kit 	3	no
65	<p>Omron Safety Sensor (F3SJ) Training Kit</p> <p>Details Product Parts</p> <ul style="list-style-type: none"> - Omron Safety Light Curtain (F3SJ-BO305P25 - Cable for simple wiring (F39-JDO303BA) - Relays with Forcibly Guide Contacts(G7SA- 3A1B DC24) - Power Supply (S8VK-Go6024) - Safety Training Kit - Set of Safety Cable 4mm.(10Pcs) 	2	no
66	<p>NS5 Omron HMI Training Kit</p> <ul style="list-style-type: none"> - Omron Programmable Terminal - Omron Touch Screen NS5 Series - Operate a screen size 5.7 inches - Power Supply Voltage Output 24VDC - Switch ON/OFF 220VAC - OMRON NS Operation Manual - USB Connecting PC with PT -RS232C Cable connecting PLC with PT 	3	no

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1	2	3	
67	<p>Analogue Component Trainer</p> <p>Specification:</p> <p>-Trainer comprises of Power supplies on boards 0-12V,250 mA and 0-5V,250mA Variable</p> <p>- +12V/150mA and +5V/150mA Fixed Supplies</p> <p>Provided on board/On board bread board</p> <p>provided-AC power supply 15-0-15V for rectifier application-</p> <p>Traineroperated on 230V</p> <p>50Hz+10%</p> <p>-Dimensions of the Trainer will be 12"x10" with Plastic Box Highly shock proof(India)</p>	4	nos
68	<p>Discrete Component Trainer</p> <p>Specification:</p> <p>Trainer comprises of Power Supplies inside the trainerPower supplies on boards 0-2V,250mA and 0- 5V,250mA Variable - +12V/150mA and +5V/150mA Fixed Supplies Provided on board.8Nos of Variable resistor provided on the board. AC power supply 15-0-15V for rectifier application (India)</p>	4	nos
69	<p>Electrical & Electronic System Trainer</p> <p>Built in Power Supply:DC Supply :5V/ 1A.& ± 12V, 500mA.0 to 15V DC(Variable),100mA(Isolated)0 to 30 V DC(Variable),100mA(isolated)</p> <p>Hight Volt DC-15V to 220V,100mA,AC Supply:12-0-12V AC,150mA. Short circuit protected.</p>	4	nos

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70	Balance (4 digits), Japan, Shimadzu Max Capacity: 220g Minimum display: 0.1 mg (4 Digit) Pan Size (dia): Ø 91 mm Power requirement: 12 V, 1 A approx. Weight (kg) approx: 6.2 Main Body Dimension: 213(W)×356(D)× 338 (H)	2	no
71	Water Bath (UK, MRC LAB) Capacity: 6L Temp: up to 85°C Exterior Dimension (W×d×h): (28.8×30.5×22.9 cm) Bath Tank Dimension: (29.8×15.2×15.2) Tank Capacity: 7L Stainless steel Gable cover one included	2	no
72	DO Meter (UK, DO-5512SD MRC Lab) Dissolved Oxygen meter data logger real time data logger, save the data. Lie SO memory card and can be down load to the excel, extra software is no need. Dissolved Oxygen range: 0 to 20 mg/L Auto temp. compensation, Auto Calibration. % salt and height value compensation adj.	2	no
73	Computer Controlled Heat Transfer Service Unit (HT10XC-A, Volume 0.05 m3, Gross weight 15kg)	1	No
74	Unsteady state heat transfer (HT17-A) Volume: 0.17m3 Gross Weight: 14kg UNSTEADY STATE HEAT TRANSFER HT17 - A small scale accessory designed to enable exercises to be performed in unsteady state heat transfer. - Comprises an electrically heated water bath, variable speed recirculation pump, a	1	No

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75	<p>Thermo-electric heat pump (HT18CA)</p> <p>Volume: 0.07m3</p> <p>Gross Weight:15kg</p> <p>THERMO-ELECTRIC HEAT PUMP-HT18C</p> <p>- Small scale accessory designed to demonstrate the use of a Peltier device to transfer heat across surfaces</p> <p>- Comprises a Peltier device,a heater,and a water-collod heat exchanger.</p>	1	No
76	<p>Free and forced convection (HT19-A)</p> <p>Volume: 0.1m3</p> <p>Gross Weight:12kg</p> <p>- A bench mounted unit specifically designed to demonstrate the phenomena of free and forced convection and to measure temperature profiles from three different heat transfer surfaces.</p> <p>- Comprises of a vertical air duct,with a transparent front for visibility mounted on a fan at the base of the duct,three heat transfer surfaces,airflow,and temperature</p>	1	No
77	<p>Temperature measurement and calibration (TH1-A)</p> <p>Volume: 0.2m3</p> <p>Gross Weight:15kg</p> <p>- A bench top unit comprising a hypsometer/hot water bath and ice flask,which generate accurate fixed points and variable temperature. An accurate platinum resistance thermometer(PYY100)with five point NAMAS calibration certificate and temperature indicated directly in C is</p>	1	No

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		QTY	
1	2	3	
78	<p>Pressure measurement and calibration (TH2-A)</p> <p>Volume: 0.1m³</p> <p>Gross Weight: 15kg</p> <p>- A bench top unit comprising a simple Desdweight Pressure Calibrator with weights to generate a range of predetermined pressures.This is connected to a Bourdon guage and electronic pressure sensor. The Bourdon gauge incorporates an arbitrary scale and a clear acrylic front face enables observation of the Bourdon tube and the operation mechanism.A reservoir with isolating valve enables the calibrator,Bourdon gauge and pressure sensor to be easily primed.</p>	1	No
79	<p>Saturation pressure and throlling calorimeter (TH3-A)</p> <p>Volume: 0.26m³</p> <p>Gross Weight:30kg</p> <p>- A bench top unit comprising a boiler vessel and pipe loop with a pressure relief valve to limit the operating pressure to eight bar.A sight glass on the front of the boiler enables the boiling patterns to be observed and a Bourdon type guage indicates the pressure in the</p>	1	No
80	<p>Expansion processes of a perfect gas (TH5-A)</p> <p>Volume: 0.34m³</p> <p>Gross Weight:22kg</p> <p>- A small-scale unit designed to introsuce Students to the properties of a perfect gas using air to demonstrate basic thermodynamic processes.</p>	1	No

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1	2	3	
81	<p>Modern control system trainer</p> <p>Microprocessor: Processor</p> <p>DC Servo : At 12V</p> <p>No-load speed:200rpm</p> <p>No- load current:0.15A</p> <p>Stall current:5.5A</p> <p>Stall troque:21 kg-cm</p> <p>Max output power: 10 W</p> <p>Helical Pinion</p> <p>50:1 metol gearbox</p> <p>Pump : Motor voltage: 12VDC</p> <p>Motor current: 200.300mA</p> <p>Flow rate:up to 100ml /min</p>	1	No

