-		1	eral Planned Promien	REMENT PE	nt (Vear 1 & Vea	ur 2)		
-	m of procured in Year-1st	Was vietai	of provimentant of the	itts (Goods	Services etc) a	re detailed belo	w:	
-	No. Name of item with specification	A Sydiabus	Trade/Course for which it is required	Total Required	Rate/Unit on INR Lakh)	Amount	Total (in INR Lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Connecting screwor yes 10 X 10 C	1	at technician (Smart Astronomic)	12 Nos	150	1800 🥒	0.018	Competitive Bidding
2	Neon tester SXXX	2	fot technician (Smart Asticulture)	OS Nox	120	960	0.0096	Competitive Bidding
3	streworker set set of 7	3	for Technician (Smart Agriculture)	12 Nos.	1500	18000	0 18	Competitive Bidding
4	naeloted combination processary	4	fol Technician (Smart Agriculture)	08 Nos	350	2800	0.028	Competitive Bidding
5	insulated side cutting plans ( some	1 5	lot technician (smart Agriculture)	08 Nox	800	6400	0.064	Competitive Bidding
6	Long nose piters (SQmm	8	of Technician (Smart Agricolture)	08 Nos	300	2400	0.024	Competitive Bidding
7	Soldering I on 25 Watt, 240 Volt	7	lot technician (Smart Agriculture)	12 Nos	550	6600	0.066	Competitive Bidding
3	Electrician knille 1,0,0 mm	8	of technician (Smart Agriculture)	08 Nos	110	880 🖌	0.0088	Competitive Bidding
9	Tweezers 150 mm	9	of Technician (Smart Agriculture)	12 Nos.	200	2400	0 024	Competitive Bidding
0	Digital Multimeter (3.3/4 cig.4) 4000 Counts	30	lot technician (smart Agriculture)	12 Nos.	4500	54000	0.54	Competitive Bidding
1	Soldering from Changeable bits 1.5 Watt, 240 Visit	11	lot Technician (Smart Agriculture)	OS Nos.	500	4000	0.04	Competitive Bidding
	De-soldering ourno electrica heated, manual operators 230 V, 40 M	12	IoT Technician (Smart Agriculture)	12 Nos.	450 -	5400	0.054	Competitive Bidding
	iteel rule graduated both in Metric and English Unit 300 mm.	13	loî Technician (Smart Agriculture)	04 Nos.	120	4800	0.048	Competitive Bidding
	recision set of screw drivers TS, T6, 7	14	lo'T Technician (Smart Agriculture)	02 Nos.	5000	10000	0 1	Competitive Bidding
Th	weezers - Bend tip	15	loT Technician (Smart Agriculture)	02 Nos.	200	400 🗸	0.004	Competitive Bidding
St	eel measuring tape 3 meters	16	IoT Technician (Smart Agricolture)	04 Nos.	120	480 🖌	0.0048	Competitive Bidding
To	ols makers vice 100mm (damo)	17	loT Technician (Smart Agriculture)	01 No.	3500	3500 🗸	0.035	Competitive Bidding
To	ols maker vice 50mm (clamp)	18	of Technician (Smart Agriculture)	01 No.	8000	8000	0 08	Competitive Biddin
Cit	noing tool (pliers) 7 in 1	19	of Technician (Smart Agriculture)	02 Nos.	750	1500 V	0.015	Competitive Biddin
Ма	gneto spanner set 8 Spanners	20	oT Technician (Smart Agriculture)	02 Nos	1000	2000 🗸	0.02	Competitive Biddir
File	Plat bastard 200 mm	21	of Technician (Smart Agriculture)	02 Nos.	300	600 🗸	0.006	Competitive Biddi
ide f	lat second cut 200 mm	22	of Technician (Smart Agriculture)	02 Nos.	800	1600 🗸	0 0 1 6	Competitive Biddin
ile 6	lat smooth 200 mm	23	nt Technician (Smart Agriculture)	02 Nos.	300	600 🧹	0.006	Competitive Biddi

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24	Plier - Flat Nose 150 mm	24	toT Technician (Smart Agriculture)	G4 Nos.	100	1200 g	0.012	Competitive Bidding
25	Round Nose pliers 100 mm	25	InT Technician (Smart Agriculture)	04 Nos.	250	1000 🖌	0.01	Compatitive Bidding
26	Scriber straight 150 mm	26	IoT Technician (Smart Agriculture)	02 Nos.	100	200 🞷		Competitive Bidding
27	Hammer ball pen 500 grams	27	loT Technician (Smart Agriculture)	01 No.	350	350 🗸	0.0035	Competitive Bidding
28	Allen key set (Hexagonal set of 9) 1 - 12 mm, set of 24 Keys	28	IoT Technician (Smart Agriculture)	01 No.	500	500 🗸	0.005	Competitive Bidding
29	Tubular box spanner Set - 6 - 32 mm	29	IoT Technician (Smart Agriculture)	01 Set	2500	2500	0.025	Competitive Bolding
30	Magnifying lenses 75 mm	30	IoT Technician (Smart Agriculture)	02 Nos.	300	600 🗸	0.006	Competitive Bidding
-31	Continuity tester With 4 % Digit Display and 20k Count	31	IoT Technician (Smart Agriculture)	06 Nos.	1500	9000 🗸	0.09	Competitive Bidding
32	Hacksaw frame adjustable 300 mm	32	IoT Technician (Smart Agriculture)	02 Nos.	300	600 🗸	0.006	Competitive Bidding
33	Chisel - Cold - Flat 10 mm X 150 mm	33	IoT Technician (Smart Agriculture)	01 No.	150	150 🗸	0.0015	Competitive Bidding
34	Scissors 200mm	34	IoT Technician (Smart Agriculture)	01 No.	500	500 🗸	0.005	Competitive Bidding
35	Handsaw 450mm	35	loT Technician (Smart Agriculture)	01 No.	500	500 🗸	0.005	Competitive Bidding
36	Hand Drill Machine Electric with Hammer Action 13 mm	36	toT Technician (Smart Agriculture)	02 Nos	1500	3000 🗸	0.03	Competitive Bidding
37	First aid kit	37	IoT Technician (Smart Agriculture)	01 No.	2500	2500 🗸	0.025	Competitive Bidding
38	Bench Vice, Bench Vice - 125 mm, Bench Vice - 100 mm, Bench Vice - 50 mm	38	loT Technician (Smart Agriculture)	01 No. Each	10000	30000 🗸	0.3	Competitive Bidding
CAN 39	Multiple Output DC regulated power supply 0-30V, 2 Amps, + 15V Dual Tracking SV/SA, Display digital, Load & Line Regulation: ± (0.05 %+100 mV), Ripple & Noise: 1 mV rms. Constant Voltage & Current operation	39	IoT Technician (Smart Agriculture)	04 Nos.	12000	48000 🗸	0.48	Competitive Bidding
40	DC Regulated Variable Programmable DC Power Supply 0- 30V/3A with numeric keypad, PC interface and LCD for Voltage, Current & Power	40	IoT Technician (Smart Agriculture)	v O2 Nos	16000	32000 🗸	0.32	Competitive Bidding
41	LCR meter (Digital) Handheld It can Measure six basic parameters R,C,L equipped with SMD Component Test Fixture	41	IoT Technician (Smart Agriculture)	01 No.	30000	30000	0.3	Competitive Bidding
42	70 MHz Mixed Signal Oscilloscope ( 4 Analog + 16 Digital Channel ) With more than 20Mpt memory Real time Sampling 1GSa/sec , having LAN Interface with, 12C , SPI, Ront etc. And RS232/LIART, 12C and SPI Utgger decoding functions, two channel 2SMHz awg plus math functions like differentiation, mitggration, abs, AND, OR, NOT etc.	42	lot Technician (Smart Agriculture)	01 No.	35000	35000	0.35	Competitive Building

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43	25 MHz Arbitrary Waveform Generator with Digital Display for Frequency and Amplitude, Two Channel, 200MSa/Sec and 2Mpt memory with more than 150 different arbitrary waveforms and built-in 8th order harmonic generation and 150MHz Frequency counter PC Connectivity USB Device/Host and LAN	43	loT Technician (Smart Agriculture)	01 No.	20000	20000	0.2	Competitive Bidding
44	6 1/2 Digit Digital Multimeter, Measurement Functions: DC &AC Voltage, DC&AC Current, 2-wire &, 4-wire Resistance, CAP, Diode, Connectivity, Frequency, Period, Any Sensor. Temperature: RTD, THERM,TC (B/E/J/K/N/R/S/T) PC Interface USB Host, USB Device, LAN(LXI-C) Measurement Speed 10k readings/sec	44	loT Technician (Smart Agriculture)	01 No.	7000	7000	0.07	Competitive Bidding
45	3GHz Spectrum Analyzer with built- in Tracking Generator, Frequency Range 9 kHz to 3.2 GHz Resolution Bandwidth(-3 dB): 10 Hz to 1 MHz Built in tracking generator Min148 dBm DANL Display 8" TFT or more PC Interface: USB Host & Device, LAN(LXI). OR electronics Workbench (Item no. 39, 41, 42, 43, 44 and 45 can be preferred in the form of workbench.)	45	loT Technician (Smart Agriculture)	01 No.	30000	30000 🗸	0.3	Competitive Bidding
46	Multi Function Test & Measuring Tool for Field Applications and Testing compatible with Laptop, 300 MHz Bandwidth 2 Channel Digital Storage Oscilloscopes, Spectrum Analyzer. Arbitrary Waveform Generator Sine 50MHz ,Square 15MHz,Triangle 100KHz , AM – FM Modulation, 16 Channel Logic Analyzer Frequency and Phase Meter USB 2.0/ 3.0 Interface	46	IoT Technician (Smart Agriculture)	01 No.	55000	55000	0.55	Competitive Bidding
47	Electrical Safety Trainer Demonstration of importance of earthing in any electrical device. Arrangement to study role of fuse and types of slow blow, high blow fuse in any electronic circuit. Arrangement to study the importance of MCB and it's working.	47	IoT Technician (Smart Agriculture)	01 No.	15000	15000 🗸	0.15	Competitive Bidding

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Institute Management Committee/ Industrial Training Institute Bagsaid, Distt. Mandi (H.P.)



L	1		_	T				
48	Analog Component Trainer with following Seven Basic Modules, • Diode Characteristics (Si.Zener, LE • Rectifier Circuits, • Diode as Clipper Circuit, • Diode as Clampir Circuit, • Zener as voltage regulate • Transistor Type NPN & PNP and Characteristics, • Transistor as a switch, Breadboard for Circuit design DC power supply, +SV, 1A (Fixed), +12V, S00mA (Fixed), ±12V S00mA (Variable) AC power Supple 9V, 0V, 9V, S00mA Function Generator Sine, Square, Triangle (1Hz to 100KHz) Modulating Signal Generator Sine, Square, Triangle (1Hz to 10XHz) Voltage, current and frequency on board LCD display. PO Interface – Acquisition from two analog input channel Simulation Seftware	οδ οτ. CE v, 48 γ 48	loT Technician (Smar Agriculture)	t О1 No.	5500	5500	0.055	Competitive Bidding
49	Digital IC Trainer, Breadboard Regular DC Supply: +5 V/1 A +12V/1A Clock Frequency 4 differen steps from 1Hz – 100kHz Amplitude (ITL), 128x64 Graphical LCD, Pulser Switches, Data Switches: 8 Nos, LED 8 Nos (ITL). Seven Segment Display Teaching &Learning Simulation Software	e: 49	loT Technician (Smart Agriculture)	01 No.	20000	20000 🗸	0.2	Competitive Bidding
) I I I I I I I I I I I I I	IT Workbench for computer hardware and networking, The bench comprises with Computer Hardware Training System (02 Nos.) The different circuit boards of PC/AT Computer are exposed on a PCB, AN Training System with Wireless AN as well to study Peer to Peer, STAR, RING Topology. trotocols: CSMA /CD, CSMA /CA, top N Wait, Go back to N, Selective epeat, Sliding Window, Token Bus, oken Ring, Colored representation fdata in transmission speed: 10/100 lbps, Smart managed 3 Layer and 2 nyer Switch, Media converter, POE vitch, Wi-Fi LAN card, IP Camera, hergy meter, LED tube light, oftmeter and Ammeter will be ted. Networking Fundamentals aching Simulation Software DSO MHz 4 Channel , 1GSa/Sec ,more an 20 Mpt memory DSO DMM : /2 Digit with LCD Display		loT Technician (Smart Agriculture)	01 No.	350000	350000	3.5	Competitive Bidding
6			IoT Technician (Smart	01.01	50000	50000		
Lap	top latest configuration	51	Agriculture)	01 No.	50000	50000	0.5	Competitive Bidding

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53	Internet Broadband Connection	53	IoT Technician (Smart Agriculture)		600	0	0	Competitive Bidding
54	Electronic circuit simulation software with five user licenses Circuit Design and Simulation Software with PCB Design with Gerber and G Code Generation, 3D View of PCB, Breadboard View, Fault Creation and Simulation.	54	loT Technician (Smart Agriculture)		25000	25000	0.25	Competitive Bidding
55	Different types of electronic and electrical cables, connectors, sockets, terminations.	55	IoT Technician (Smart Agriculture)	As Required	9000	9000	0.09	Competitive Bidding
56	Different types of Analog electronic components, digital ICs, power electronic components, general purpose PCBs, bread board, MCB, ELCB	56	IoT Technician (Smart Agriculture)	As Required	20000	20000	0.2	Competitive Bidding
57	SMD Soldering & De soldering Station with necessary accessories, SMD Soldering & Desoldering Station Digitally Calibrated Temperature Control SMD Soldering & Desoldering Power Consumption: 60 Watts I/P Voltage: 170 to 270 V De-soldering : 70 Watt emperature Range : 180 to 480° Centigrade Power Consumption : 270 Watts Hot Air Temperature : 200 to 550° Centigrade	57	IoT Technician (Smart Agriculture)	01 No.	15000	15000	0.15	Competitive Bidding
58	SMD Technology Kit, SMD component identification board with SMD components Resistors, Capacitors, Inductors, Diodes, Transistors & IC's packages. Proto boards with readymade solder pads for various SMD Components. SMD Soldering Jig.	58	loT Technician (Smart Agriculture)	01 No.	12000	12000 🗸	0.12	Competitive Bidding

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59	Adeconcentroller kits (BOS1) along with programming software (Accembly level Programming) With its important different application modules 1 Input listerface Switch, Natris Keypael, ASCII Keypael 2. Display LCD, Seven Segment, LED Matris 3. ADC & DAC 4. PC Interface modules 5. Motor DC, Stepper, Servo 6. DAQ Core BOS1 MCU clocked at 11.0592 MHz, supporting both programming modes Keypael and computer , ICD for both programming and run mode, ready to ton programmer to support faceby of controllers ATBRC52, DC Peaker Supples +12V, - 12V, +5V & -5V, Breadboard to make circuits, Learning content through simulation Software and following application rhodules 1. Input listeface. Ask Matris Keypael, ASCII Key PAD, Four Input Switch 2. Display 16X2 ICD, Seven Segment, LED Bar Graph 3. ADC/DAC with ADC/DAC0808 4. PC Interface RS232 8. USB 5. Motor Drive, DC, Servo, Stepper 6. DAQ 4ch analog 10bit, 22 DIO resolution,6MHz Frequency Counter Expuare wavel. OAQ with PC interface software	59	lot Technician (Smart Agriculture)	01 No.	2000		0.2	Competitive Bidding
60	Sensor Trainer Kit Containing following Sensors a) Air humidity and Temperature b) RTD c) Atmospheric Pressure d) Air Quality e) Smoke Detector Sensors f) Limit Switch g) Photo sensors h) Capacitive displacement IoT enabled Android based 7° Graphical touch LCD with inbuilt cortex processor & DAQ for acquiring analog data and software for viewing the output waveforms with USB storage and HDMI output. Ethernet port to connect real world. Inverting, Non – Inverting, Power, Current, instrumentation and Differential Amplifier, F to V, V to F. I to V, V to I Converter, High Pass and Low Pass Filter, Buffer, LED, Buzzer, LED Bar Graph, Touch Switch Included Sensors. RTD NTC Themistor LM35, Photovoltic, Air humidity and Temperature, Gas(Smoke), Air Quality, Atmospheric Pressure, Limit switch, Capacitive displacement	60	IoT Technician (Smart Agriculture)	O2 Nos.	30000	60000	0.6	Competitive Bidding
61	Different types of electronic and electrical cables, connectors, sockets, terminations	61	loT Technician (Smart Agriculture)	As Required	10000		0	Competitive Bidding

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62	Offerent Murroronti offer, Trocessor Training and Development Flatform for AVR, PR, ARM and Arduino MCU PR. 161877A, 4MHz, Onlyeand programmer will program PR Devices, USB Fort MCU ATMEGA8515, 8MHz, onlyeard programmer will program ATMEGA series microcontroller, USB Port MCU FPC 2148, 12MHz, FED 8Nos, ADC 10 bit 10Nos, DAC 10bit, USB and R5232, R105 support, ITAG connector, USB20, Onlyeard Zigbee, I2C SPLRTC DC motor, PWM, Sensor LM35, Display 16X2 ICD Dieplay, Motor Drive 12930, 00mA (5, 12V), Programmer USB Inferface Microcontroller AT mega328p (Arduino Based), 16MHz, Digital I/O Pins, 14 (of which 6 provide PWM output), Flash Memory, 16KB (of which 2KB used by boot loader) Each platform should have Bread DC Power Supplies +12V, -12V, +5V & SV, Breadboard to make circuits.	62	tot feelmician (Simart Agriculture)	01 Ма	50000	5000	05	Competitive Bidding
6.3	Internet of Things Explorer Processor - 64bit ARMv7 with 1GB RAM , Memory 32GB ,OS Open source Linux, Connectivity, Wireless LAN, Bluetooth, Zigbee, USB & Ethernet, HDMI interface, 1-77 Color IFT LCD , Driver for Stepper and DC Motor, six 16 bit Analog put, RTC and 4-20mA input-Zigbee 2-4GHz, Sensors Temperature and Humidity, Air Quality, Soli Moisture, Ambient Ught, Soli/Water temperature, PIR Sensor, GSM IoT Gateway - Quad Band 850/900/1800/1900 MHz - GPRS multr-slot class, Control via AT commands. Explore physical and application layer protocols like RS232, RS485, GSM, Ethernet and MQTT, CoAP, HTTP, FTP. Cloud/server configuration includes HTML, Java, php and mySQL. IoT Node: Wireless 2-4GHz Zigbee, 5 Analog Inputs and at least 3 Digital Outputs, At least one 12C Channel, support OTA. Online Cloud/Server Services for 2-years. Battery 3, 7V/4400mAH with Solar Panel. USB interface.	63	loT Technician (Smart Agriculture)		80000	80000	0.8	Competitive Bidding

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64	Field Interlace and Protocol Simulation Kit, A console including :Any Branded Desktop Computer with Windows Operating System 1. Ethernet Devices with Isolated Supply and port • 4 Al(0.1% FSR), 4 AO (0- 10VDC), Ethernet Port – Qty 1 • 8 Relay Outputs, thernet Port – Qty 1 • 8 Pulse Outputs, Ethernet Port – Qty 1 • 8 Digital Inputs, Ethernet Port – Qty 1 • 4 RS485 Slave ports, 1 Ethernet Port – Qty 4 2. 16 Port Ethernet Switch for networking of field ethernet devices 3. SMPS to power up multiple ethernet based field imulation devices 4. Required Connectors, Switches and LED indicators for Field Inputs, Relay Outputs, Analog Inputs, Analog Outputs, Pulse Signals 5. Software • Communication with simulation device on 1 No. ethernet MODBUS TCP Protocol • Field Interface simulation using HMI replica of Console for easy understanding of students • Port Simulation – Serial Port Terminal, TCP/IP, UDP, HTTP • Protocol Simulation – MODBUS RTU Master/Slave, MODBUS TCP Master/Slave, DLMS Client IoT Protocol Simulations – MQTT topic publish subscribe simulation	64	loT Technician (Smart Agriculture)	01 No.	65000	65000	0.65	Competitive Bidding
65	Solar Power Lab, Solar PV Modules. Open Circuit Voltage Voc 10V, Short Circuit Current ISC 0.60mA Maximum Power Voltage (Vmp) 8.80V, Maximum Power Current (Imp): 0.57A, Batteries, Voltage 6V, 4Ah. Buck & Boost Converter, Dusk to Dawn Sensing, LCD for Voltage and Current. Interactive Solar Training Software	65	loT Technician (Smart Agriculture)	01 No.	50000	50000	0.5	Competitive Bidding
66	Solar PV Module Analyzer, Micro- controller Based with 16X2 LCD, PC Interface, mains & battery operated. Capable to measure Open Circuit Voltage and Short Circuit Current, Maximum Voltage and Current at Maximum Power DCV Range 0-50V, DCA Range 10A	66	loT Technician (Smart Agriculture)	01 No.	150000	150000	1.5	Competitive Bidding

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Wireless Communication mo for interfacing with microcom a) RFID Card Reader b) Finger c) Zigbee d) GPS e) GSM f) Bli g) WiFi, Core 8051 MCU clock 11.0592 MHz, supporting bo programming modes Key Pao PC, LCD for both programmin mode and run mode, ready t programmer to support fami controllers AT89C51/52 & 55 Power Supplies +12V, -12V, - 5V,Breadboard to make circu detailed learning content the simulation Software and foll pplication modules : RFID Ca Reader ,Finger Print, Zigbee, GSM, Bluetooth and WiFi	ntrollers r Print uetooth ked at th d and ng to run 67 5, DC +5V & - uits, rough owing ard , GPS,	IoT Technician (Smart Agriculture)	01 No.	50000	50000 1515220	0.5	Competitive Bidding
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