Part – I

Name of Authority Inviting Tender: **STATE PROJECT DIRECTOR, SAMAGRA SHIKSHA, MIZORAM**

1. Name of Work: **Supply of Equipment for Atal Tinkering Lab with Installation and Training**
2. Completion Period: **Within 3 (Three) month from issue of work order**
3. Date of issue of Inviting Tender: **22nd July, 2024**
4. Deadline for receiving Bids: **22nd August, 2024 up to 12:30 PM**
5. Time & Date for Opening Technical Bids: **22nd August, 2024 at 1:00 PM**
6. Time & Date for Opening Financial Bids: **____August, 2024 at 3:00 PM**
7. Place of Opening Bids: **Office of the State Project Director, Samagra Shiksha, Mizoram**
8. Last date of Bid validity: **Ninety days from opening of Technical Bids**
9. Officer inviting bids: **State Project Director, Samagra Shiksha, Mizoram.**

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – II

NOTICE INVITING TENDER

Invitation for Supply **Equipment for Atal Tinkering Lab with Installation and Training**

1. The State Project Director, Samagra Shiksha, Mizoram issues ***"Notice Inviting Tender"*** from a reliable Company/Agent/Distributor/Dealer dealing with Lab Equipment for Supply of Laboratory Equipment for Atal Tinkering Lab with Installation and Training.

2. Detail can be obtained from the Office of the State Project Director, Samagra Shiksha, Mizoram, Top Floor, School Education Complex Building, Mc Donald Hill, Zarkawt, Aizawl (Tel – 0389 2306630, Tele/Fax 0389 2340377) or may be downloaded from **www. Samagra.mizoram.gov.in** on payment of Rs. 500/- per document (non refundable) on working days from 22nd **July, 2024 upto 12:30 PM of** 22nd **August, 2024** during office hours.

15/7/24

(LALSANGLIANA)
State Project Director
Samagra Shiksha, Mizoram

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – III

NOTICE INVITING TENDER

1. The State Project Director, Samagra Shiksha, Mizoram issues ***"Notice Inviting Tender"*** from a reliable Company/Agent/Distributor/Dealer dealing with Lab Equipment for Supply of Lab Equipment with Installation and Training for Atal Tinkering Lab in 10 Schools under Aspirational District, Mamit. Detail specification of per school requirement is as given in the following pages :

समग्र शिक्षा
Samagra Shiksha

No. D.11011/1/2024 - SPO (SS)
OFFICE OF THE STATE PROJECT DIRECTOR
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(Mizoram School Education Mission Society)
McDonald Hill, Zarkawt, Aizawl - 796007
Phone– 0389-2306951/+91 8731847214/+91 6009596345 e-mail: ssamizoram@gmail.com

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Quantity	Type
1	Electronics Development	Arduino Uno or equivalent	ATmega328P - 8 bit AVR family microcontroller, equivalent or better. Operat ing Voltage : 5v Digital 1/0 Pins: 14 {of which 6 provide PWM output), PWM Digital 1/0 Pins : 6 Accessories : Case shell enclosure, compatible USB cable {length - 6 inch or more)	300	Consumable
2	Electronics Development	Arduino Nano or equivalent	ATmega328P - 8 bit AVR family microcontroller , equivalent or better. Operating Voltage : 5V , Digital 1/0 Pins : 14 {of which 6 provide PWM output), Analog Input Pins : 8 , Accessories : Compatible USB cable { length -6 inch or more)	100	Consumable
3	Electronics Development	Arduino Mega or equivalent	ATmega 2560P - 8 bit AVR family microcontroller, equivalent or better . Operating Voltage: 5V , Digital 1/0 Pins : 54 (of which 6 provide PWM output) , Analog Input Pins: 16. Accessories : Case shell enclosure, Compatible USB cable (length -6 inch or more)	100	Consumable
4	Electronics Development	Raspberry PI	Accessories - MicroSD card USB 3.0 cable Case shell enclosure	50	Consumable
5	Electronics Development	Breadboards & Mini Breadboard	Solderless 400 pin breadboard	300	Consumable
6	Electronics Development	Breadboards & Mini Breadboard	Solderless 800 pin breadboard	200	Consumable
7	Electronics Development	Breadboards & Mini Breadboard	Self-Adhesive Proto Shield	200	Consumable
8	Electronics Development	General Purpose solderable Board	FR2 A Grade Material (140 x 90 mm)	300	Consumable
9	Electronics Development	General Purpose solderable Board	FR2 A Grade Material (80 x 55 mm)	300	Consumable
10	Electronics Development	Berg Strips	Female Berg St rip , 2.54mm pitch, 40 pin single ro w, breakable pin	300	Consumable
11	Electronics Development	Berg Strips	Male Berg Strip , 2.54mm pitch, 40 pin single row, breakable pin	300	Consumable
12	Electronics Development	16x2 LCD display	Dot matrix LCD display. 16 characters X 2 lines. 12C	200	Consumable
13	Electronics Development	USB Cables	USB Cable Set (A to B, 12 inch or more)	100	Consumable
14	Electronics Development	USB Cables	USB Cable Set (Mini, 12 inches or more)	100	Consumable
15	Electronics Development	Battery	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers. Equivalent or better	100	Consumable
16	Electronics Development	Resistor Kit	One kit contains - 30 carbon film resistors of 20 different resistance values each assorted, packaged together and labelled . Wattage: 0.125W to 1W , Values : 0Ω , 1.5Ω , 4.7Ω , 10Ω , 47Ω , 100Ω , 220Ω , 330Ω , 470Ω , 680Ω, lkΩ, 2.2kΩ , 3.3kΩ , 4.7kΩ , lOkΩ, 22kΩ, 47kΩ, lOOkΩ, 330kΩ, lMΩ	200	Consumable
17	Electronics Development	Capacitor Kit	One kit contains - 20 electrolytic capacitors of 10 different capacitance values each. Assorted kit packaged together and labelled.Values: lOpF, 22pF, lOOpF, lnF, lOnF, l OOnF, lμF, lOμF, l OOμF, lOOOμF	200	Consumable
18	Electronics Development	Linear Voltage Regulator	7805, 7812,7809	300	Consumable
19	Electronics Development	Water Pump module	DC12V 3W Submersible Water Pump	40	Consuma ble
20	Electronics Development	Piezoelectric Plate	Normal Copper based 4 cm Diameter approx .	300	Consumable
21	Electronics Development	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module. MCU Control LED Display Module	100	Consumable
22	Electronics Development	Bluetooth module	HC 05 Bluetooth module, Voltage Rating: 5 V	150	Consumable
23	Electronics Development	7 Segment Led Display	LED 4-Digit Display Module, Voltage Rating: 2.4V to 5.5V. 4-Pin interface:Vee, Gnd, Data, Clock	200	Consumable
24	Electronics Development	GSM	Sim900 GPRS Transfer Board Micro Sim Gsm Core TTL Port Module for Arduino	40	Consumable

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25	Electronics Development	GPS	GY-NE06MV2 new GPS modu le	40	Consumable
26	Electronics Development	Laser Diode Emitter	650 nm 5mW Mini Laser Dot Diode Module	100	Consumable
27	Electronics Development	LDR Module	5mm/12mm, Photosensitive LOR Light Sensor Module	300	Consumable
28	Electronics Development	Keypad	Universal 16 Key Switch Keypad	100	Consumable
29	Electronics Development	Joystick	2-axis joystick with push button function	100	Consumable
30	Electronics Development	Active Buzzer	Small 5 volt	400	Consumable
31	Electronics Development	Active Buzzer	Big 5 volt	400	Consumable
32	Electronics Development	Motor driver Module	L293D	100	Consumable
33	Electronics Development	Sound Playback Module	ISD1820 voice record ing module or equivalent	100	Consumable
34	Electronics Development	DC Plastic Gear motor with wheel	12V, 150RPM, Side Shaft BO (Battery operation) Motor	400	Consumable
35	Electronics Development	Node MCU	ESP 8266 12C, 1 wire, plug and play	60	Consumable
36	Electronics Development	WeMos D1 R2	WeMos D1 R2 with WiFi ESP 8266, Operating Volt age: 5V	60	Consumable
37	Electronics Development	Vibrating Motor	Weight: 10 Grams, Operating Voltage: 1.5 to 3V	200	Consumable
38	Electronics Development	Alligator Connectors	Multi-Colour Alligator Connectors - 12 inch	2000	Consumable
39	Electronics Development	Battery clips with DC Jack	9-volt battery clips with DC Jack	400	Consumable
40	Electronics Development	Hook-up Wires	Red & Black set 100 Meters each	40	Consumable
41	Electronics Development	Jumper Cable	Male-Male	10000	Consumable
42	Electronics Development	Jumper Cable	Male-Female	6000	Consumable
43	Electronics Development	Jumper Cable	Female-Female	4000	Consumable
44	Electronics Development	RGB LEDs	Regular 5mm 3-5 volt Range	4000	Consumable
45	Electronics Development	LEDs (Red)	Regular 5mm 3-5 volt Range	10000	Consumable
46	Electronics Development	LEDs (Green)	Regular 5mm 3-5 volt Range	10000	Consumable
47	Electronics Development	LEDs (Blue)	Regular 5mm 3-5 volt Range	10000	Consumable
48	Electronics Development	LEDs (Yellow)	Regular 5mm 3-5 volt Range	10000	Consumable
49	Electronics Development	LEDs (White)	Regular 5mm 3-5 volt Range	10000	Consumable
50	Electronics Development	Timer IC- LM 555	LM 555 Timer IC. Voltage range - 4.5V to 16V	300	Consumable
51	Electronics Development	Atmega16u2	8 bit microcontroller Individual IC (DIP).Voltage range: 2.7V to 5.5V. Operational Range: -40°C to +80°c	100	Consumable
52	Electronics Development	Diodes and Transistors Kit	One Kit Contains - 25 Assorted Basic Diodes of 4 different types each.Types: NPN Transistor - 2N3904, BC547 PNP Transistor - 2N3906, BC557 Silicon Diode - 1N4148, Power Diode - 1N4004/4001.Equivalent or better.Wattage: IW, Current rating: IA. Assorted kit packaged together and labelled.	30	Consumable
53	Electronics Development	Button Switch Set	One Kit Contains - 100 buttons of different types.Types: Push, toggle, rotary, selector and slide switch.Assorted kit packaged together and labelled.	30	Consumable
54	Electronics Development	Capacitative touch Module	MPR 121 with I2C. Voltage Range:2.5V to 3.6V DC.	200	Consumable
55	Electronics Development	Capacitative Touch Switch Module	Digital Capacitive touch switch module -TTP223B Voltage Range: 2V to 5V DC.	100	Consumable
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module	LM393 Detection distance:2 - 30 cm, Detection angle: 30 - 40°	200	Consumable
57	Internet of Things & Sensors	Triple Axis Magnetometer	3-Axis Magneto resistive Sensors I2C Digital Interface Integrated 12-bit ADC Range of -8 to +8 Gauss 160 Hz Maximum o/p rate	100	Consumable
58	Internet of Things & Sensors	Humidity Sensor	Operating range:20-95 % RH Temperature: 0 - 60 Celsius Power supply:1.5V AC (Max sine) Operating frequency:500Hz - 2kHz	100	Consumable
59	Internet of Things & Sensors	M Q Series	MQ - 2 Smoke Detection	30	Consumable
60	Internet of Things & Sensors	M Q Series	MQ-3 Alcohol - Ethanol Sensor	30	Consumable
61	Internet of Things & Sensors	M Q Series	M Q-4 Methane Natural Gas Sensor	30	Consumable
62	Internet of Things & Sensors	M Q Series	MQ-5 Methane Liquified Gas Sensor	30	Consumable
63	Internet of Things & Sensors	M Q Series	MQ-6 Liquified Petroleum Gas Sensor	30	Consumable
64	Internet of Things & Sensors	M Q Series	MQ-7 High Sensitivity CO Carbon Monoxide Sensor Detector	30	Consumable
65	Internet of Things & Sensors	M Q Series	MQ-8 Hydrogen Gas Sensor	30	Consumable
66	Internet of Things & Sensors	M Q Series	MQ-135 Air Quality Sensor	30	Consumable

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67	Internet of Things & Sensors	IR transmitter/receiver	TSOP 1738 Switching rate: 38 KHz Voltage Rating: 5V	100	Consumable
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible	Working Voltage - DC 5V Working current - 15 mA Working Frequency - 40 Hz Range - 1 cm to 4 m Effectual Angle - <15° M easuring Angle - 30° Resolution - 0.3 cm	400	Consumable
69	Internet of Things & Sensors	Triple Axis accelerometer-	3-axis sensing Small, low profile package 4 mm x 4 mm x 1.45 mm LFCSP Low Powe r: 350 µA (typical)Single- supp ly operation: 1.8 V to 3.6 V Temperature stability	100	Consumable
70	Internet of Things & Sensors	PIR Motion Detector Module	High digital pulse when motion detected Low digital pulse when idle /no motion detected Sensitivity range (up to 6 m), Power supp ly: SV - 12V	200	Consumable
71	Internet of Things & Sensors	Pulse Rate Heart Sensor	Pulse Rate Sen sor Finger Based (finger or earlobe) Workin g voltage 3-SV	40	Consumable
72	Internet of Things & Sensors	Relay Module	SV I0A - 2 Channe l Relay Module. Compatible with Arduino .	200	Consumable
73	Internet of Things & Sensors	Relay Module	SV I0A - 1 Channel Relay Module . Compatible with Arduino	200	Consumable
74	Internet of Things & Sensors	Big Sound microphone module	Large Electret capsule sound module	100	Consumable
75	Internet of Things & Sensors	Big Sound microphone mod ule	Large Electret capsule sound module	100	Consumable
76	Internet of Things & Sensors	Soil Moisture Sensor module	FC-28 with LM293 comparat or Operating Voltage : 3.3V t o SV.	60	Consumable
77	Internet of Things & Sensors	Touch Sensor	Capacitive Touch Sensor Module . TTP22X series. Voltage Range: 2.4V to 5.SV	60	Consumable
78	Internet of Things & Sensors	Metal Touch Sensor Module	KY-036 or equivalent metal touch sensor modu le	60	Consumable
79	Internet of Things & Sensors	Rain Drop Sensor	Rain Sens it ive, Rain Drop Detection Sensor M odule. Voltage Range: 3.3V to 5.SV. Size: 5m m X 40mm or equivalent	60	Consumable
80	Internet of Things & Sensors	Flex Sensor	Flex Sensor . Size - 2.2 Inches	60	Consumable
81	Internet of Things & Sensors	Temperature Sensor	LM35 Fu ll range tempe rature sensor. Voltage Rang e: 4V to 30V . Er r or: ±0.5°C	60	Consumable
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module	DHT 11 Voltage Range: 3V to SV	400	Consumable
83	Internet of Things & Sensors	Force Pressure Sensor	Force sensitive resistor with a square , l.75xl.5" sensing area	40	Consumable
84	Internet of Things & Sensors	Colour Recognit ion Sensor	TCS3200 Colour Re cognit ion Sensor	40	Consumable
85	Internet of Things & Sensors	Water Flow Sensor	Arduino Compatible Water flow sensor . 5V DC In put.	40	Consumable
86	Internet of Things & Sensors	Sound Sensor	Sound Sensor Module, Microphones modu le	100	Consumable
87	Internet of Things & Sensors	IR Sensors Array module for Line Following	8 IR Sensors Array module for Line Following Operating Voltage: 5V	100	Consumable
88	Internet of Things & Sensors	Power Bank	10000 mAh 5-volt Power Bank	50	Consumable
89	Internet of Things & Sensors	RFID Reader - Tags	Current :13-26mA / DC 3.3V Idle Current :10-13mA Sleep Current<80uA Peak Current<30mA Operating Fr equency: 13.56MHz<30mA Read range between 20 cm to Im	100	Consumable
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK	Frequency Range: 433.92/315 MHz Supply Voltage: 3 - 6 V Output : 4 - 16 Dbm Low power consumption Easy application	100	Consumable
91	Robotics	Stepper motor with Driver board	28BYJ-48 ULN2003 5V Stepper Motor+ ULN2003 Driver Board	100	Consumable
92	Robotics	DC motor	12V DC Gear 150 RPM	200	Consumable
93	Robotics	Servo motors	Position Servo Angle based Metal Gear	100	Consumable
94	Robotics	Servo motors	Small Servo Metal Gear	100	Consumable
95	Robotics	Servo motors	Continuous Metal Gear Servo 360	100	Consumable
96	Robotics	Servo motors	Small Servo Plastic Gear	200	Consumable
97	Robotics	150 RPM BO Motor	150 RPM BO Motor	100	Consumable
98	Robotics	L298P Motor Driver	L298P Motor Driver Shield or relative Driver Sh ield	100	Consumable
99	Robotics	Servo Motor Tester	CCPM 3 channel Servo Test er	40	Consumable
100	DIY Kit	Robotics DIV Kit	Robotics DIV kit with Plastic Parts programmable intelligent brain/ brick. Compatible with Kit no 109 to increase the number of Experiments	30	Equipment

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101	DIY Kit	Mechanical (Modular) Construction kit	Metal mechanical construct ion kit compatible with electron ic equipment with Programmable Brain with following sensors - .Light; Line Follower; Sound; PIR Motion; Gyroscope; Color; Temperatire and Humidity SensorCompatible with Kit no 100 to enhance the learning.	50	Equipment
102	STEM Learn ing/ App lication Kit	Drone Kit	Programmable Drone with Smart Self learning content	10	Equipment
103	Robotics DIY KIT	Aerospace Kit	Educational Purpose	10	Equipment
104	Robotics DIY KIT	Automobile Kit	Educational Purpose	10	Equipment
105	Robotics DIY KIT	Bio-Medical Kit	Educational Purpose	10	Equipment
106	Robotics DIY KIT	Agri-Tech Kit	Educational Purpose	10	Equipment
107	Robotics DIY KIT	Water/ Sanitat ion Kit	Educational Purpose	10	Equipment
108	Robotics DIY KIT	Bio Tech Kit	Educational Purpose	10	Equipment
109	Robotics DIY KIT	Other Potential STEM Application Kit	Motorized (Three types of Motor) Kit with Plastic Parts that can be assembled and un assembled.	10	Equipment

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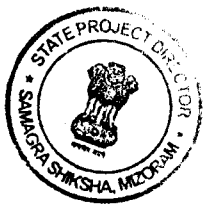
Package 2: Rapid Prototyping Tools					
S. No.	**Category**	**Name**	**Description**	**Quantity**	**Type**
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)	Printer Type: FDM (Fused Deposition M odelling), Minimum Dimensions: 160mm *140mm *140mm Build Size or 4 litre Build Volum e., Nozzle: 0.3mm to 0.4mm nozzle diameter, slici ng software should be free or Open sou rce, LCD Screen UI that display print metrics, Heated Print bed. Material Compatibility - PLA, ABS, and derivatives of PLA, Nin jafl ex Quality Anti-bacterial/ fungal Cover. Repair Kit - with spare springs, screws, keys, tweezers, etc. •Automatic Aided Leveling Closed Body	10	Equipment
2	Rapid Prototyping Tools	Dedicated UPS/Power back up	Printer should not stop	10	Equipment
3	Rapid Prototyping Tools	Filament for 3D printer	Compatible 1000 Grams Filament in 5 different colours	50	Consumable
4	Rapid Prototyping Tools	Filament Storage Box	Compatible Filament storage box	50	Consumable
5	Rapid Prototyping Tools		20m spool of thick strings various colour	50	Consumable
6	Rapid Prototyping Tools		Rubber band	10PCK	Consumable
7	Rapid Prototyping Tools		Popsicle sticks	10PCK	Consumable
8	Rapid Prototyping Tools		Wood glue - 500 ml	20	Consumable



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Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Quantity	Type
1	Mechanical Tools	Hacksaw Frame	Size: 12 inches	10	Equipment
2	Mechanical Tools	Hacksaw blades	Size: 12 inches	100	Consumable
3	Mechanical Tools	Mini Hacksaw Frame	Size: 6 inches	10	Equipment
4	Mechanical Tools	Mini Hacksaw blades	Size: 6 inches	100	Consumable
5	Mechanical Tools	Pliers: 4.5-inch size	External Straight	10	Equipment
6	Mechanical Tools		Nose Circlip Plier	10	Equipment
7	Mechanical Tools		Long Nose Plier	10	Equipment
8	Mechanical Tools		Combination Mini Plier	10	Equipment
9	Mechanical Tools		Wire stripping pliers	10	Equipment
10	Mechanical Tools		Bent nose plier	10	Equipment
11	Mechanical Tools		Needle nose pliers	10	Equipment
12	Mechanical Tools	Tweezer Set	6 Pc Non-Magnetic Tweezer Set Size - 6 inches	20	Equipment
13	Mechanical Tools	Ball Pein Hammer	Ball Pein Hammer Weight - 0.75kg	10	Equipment
14	Mechanical Tools	Steel Shaft Claw Hammer	Claw Hammer Steel Shaft Weight - 0.75kg	10	Equipment
15	Mechanical Tools	C-Clam p	Metal Clamp : 3-inch size	40	Equipment
16	Mechanical Tools	Allen Key Set	10 Piece Ring Imper ial Allen Hex key	10	Equipment
17	Mechanical Tools	Drill Machine Set	Drill Machine with accessories Hammer/Screw and clockwise/ anticlockwise modes. Power: 500W Chuck capacity - 1 to 10 mm Drill Bit s - Masonry, M etal, Wood	10	Equipment
18	Mechanical Tools	Drilling Workstation	Drill Press, Drill Holder and Rotary Tool, Compatible with Drilling machine provided	10	Equipment
19	Mechanical Tools	Spanner Set	12-piece combination Spanner Set Rang e - 4 mm to 30 mm	10	Equipment
20	Mechanical Tools	Vice Normal	Table top vice	10	Equipment
21	Mechanical Tools	Precision Screw Driver Set	6 Piece Precision Screw Driver Set Types: PHO, PHI , Flat head - 1.4mm, 2mm, 2.4mm, 3mm	20	Equipment
22	Mechanical Tools	Wrench	Adjustable Universal Wrench	20	Equipment
23	Mechanical Tools	Wire Strippers	Wire Stripper Cutter Plier With Spring - 26x6x20 cm (LxWxH)	50	Equipment
24	Mechanical Tools	Screwdriver	40 pc Multi-purpose screwdriver set	30	Equipment
25	Mechanical Tools	Cordless Rotary Multitool Set	Cordless Rotary multitool wit h all cutting, grinding, polishing , engraving and drill bits. Speed: Adjustable up to 30000 RPM Battery Type: Li-ion Voltage/current range : 8- 10V, 0-2 A	10	Equipment
26	Mechanical Tools	Air Blower	500 W or more. Variable speed blower	10	Equipment
27	Mechanical Tools	Drill Bit Set	High Quality 13 Pcs HSS Drill Bits Set for Wood, Iron, Aluminium, Plastic etc.	10	Equipment
28	Mechanical Tools	File set	6 pc file set Working length - 6 inch	10	Equipment
29	Mechanical Tools	Mini File set	6 pc mini file set Working length - 3 inch	10	Equipment
30	Mechanical Tools	Flexible Cutting Mat	A3 Size with Marked Pattern and Grids (18" X 12")	10	Equipment
31	Mechanical Tools	Plastic Storage Drawer / Organiser	Number of Drawers: 60 or equivalent Drawer size (l*w*d) (inch) : 2*2*5	20	Equipment
32	Mechanical Tools	Pegboard	Peg board System to mount tools on wall with attachments . Size: 3ft*2ft	20	Equipment
33	Electric Tools	Hot glue gun	Works with standard 0.5- inch glue sticks. Temperature - 230 to 280 degree Celsiu s.	40	Equipment

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Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Quantity	Type
34	Electric Tools	Digital Oscilloscope	Minimum Bandwidth: SO Mhz. Minimum number of channels: 2 channels. Sample Rate: lGsa/s With inbuilt waveform function generator.	10	Equipment
35	Electric Tools	Soldering Kit	Variable Wattage of Soldering Iron : 15-30 watts/230 volts	20	Equipment
36	Electric Tools	Soldering Kit	Soldering Iron Temperature Range: 2so· c to 4so·c	40	Equipment
37	Electric Tools	Soldering Kit	De-Soldering Pump, Soldering Flux (Paste) 100 grams, DE-soldering Copper Braid (Solder Wick) - l.Sm*2mm	40	Equipment
38	Electric Tools	Soldering Kit	Compatible Soldering Tip - Bevel, Chisel, Conical - 5 each per kit.	40	Equipment
39	Electric Tools	Soldering Kit	Soldering Wire: 20/22 AWG soldering Wire with rosin core flux (100 Grams)	40	Equipment
40	Electric Tools	Adapters	DC power Adapter with 5V,2A	100	Consumable
41	Electric Tools	Adapters	DC power Adapter with 12V, 2A	100	Consumable
42	Electric Tools	Electric Screw Driver Set	Multipurpose Electric screwdriver set. Accessories - Compatible bits Mode - Wireless Battery - Li-ion 3.6V or equivalent with charging dock	10	Equipment
43	Electric Tools	Dual Temperature Heat Gun	1800W Dual Temperature Heat Gun	10	Equipment
44	Electric Tools	Soldering Helping hand	Specifications : Adjustable crocodile holding clamps/clip . Soldering iron holder. LED light. Magnifying lens.	40	Equipment
45	Measurement Tools	Return measuring tape	Return measuring tape 5Mx19mm	20	Equipment
46	Measurement Tools	Stainless Steel Rule	Stainless Stee l 12" / 150 mm Rule	50	Equipment
47	Measurement Tools	Digital Vernier Calliper	150 mm/ 6" Digital Vernier Calliper	20	Equipment
48	Measurement Tools	Spirit Level	12" Spirit Level	10	Equipment
49	Measurement Tools	Digital Pen electric Tester	Voltage tester	10	Equipment
50	Measurement Tools	Digital Multi Meter	Digital Multi Meter Voltage Current Resistance-7 functions+ 19 ranges to cover DC voltage 200mV to l kV, AC voltage 200 V - 750 V, DC current 200 µA - 10 A, Resistance 200 -2 M Ohm and Transist or & diode test.	50	Equipment
51	Biology Kit	DIY Paper Microscope	DIY Paper microscope. Magnification range - lOOx to 2000x	50	Consumable
52	Astronomy Equipment	Telescope	All glass optical components Altazimuth mount suitable for terrestrial and astro nomical use minimum 700 mm focal length	10	Equipment
53	Textile Equipment	Sewing Kit	Semi-Automatic Sewing machine Straight stitch Consumables - 2 set of assorted needles and 10- colour spool set .	10	Equipment

समग्र शिक्षा
Samagra Shiksha

No. D.11011/2/2024 - SPO (SS)
OFFICE OF THE STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM
(Mizoram School Education Mission Society)
McDonald Hill, Zarkawt, Aizawl - 796007
Phone– 0389-2306951/+91 8731847214/+91 6009596345 e-mail: ssamizoram@gmail.com

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Quantity	Type
1	Power Supply & accessories	Glue Sticks	11 mm x 200mm Hot Melt Glue Stick	1000	Consumable
2	Power Supply & accessories	Nuts and Bolts and screw	Specs - M4X12MM M4X20MM MSX16MM MSX25MM M6X20MM	400	Consumable
3	Power Supply & accessories	Cable Tie	Small Cable Tie Pack - Pack of 100	100	Consumable
4	Power Supply & accessories	Cable Tie	Medium Cable Tie Pack - Pack of 100	100	Consumable
5	Power Supply & accessories	Cable Tie	Big Cable Tie Pack - Pack of 100	100	Consumable
6	Power Supply & accessories	Sand Paper	Grit Values - 80, 100, 120, 200, 300. 5 Nos of each	100	Consumable
7	Power Supply & accessories	Power Strip Adaptors	Standard Quality Extension with SAmp safety fuse. 5 or more sockets in each extension. 5-meter length of each extension.	50	Consumable
8	Power Supply & accessories	Bulb Holders	Regular Hanging Bulb holder	100	Consumable
9	Power Supply & accessories	Electric Wires	Twisted Red black pair	200 meters	Consumable
10	Power Supply & accessories	USB TO DC jack cable	USB to DC jack cable for Battery bank	100	Consumable
11	Safety equipment	First-Aid Kit	Standard Medical First Aid kit in portable container.	20	Consumable
12	Safety equipment	Fire extinguisher (handy units)	Powder Type Fire Extinguisher 2KG	20	Consumable
13	Safety equipment	Safety goggles (with/ without LED torch)	Polycarbonate Safety goggles Clear lens with no tint	300	Consumable
14	Safety equipment	Safety Gloves Pairs	Latex Coating Gloves (Medium Size)	100	Consumable
15	Safety equipment	Safety Mask	Filtering efficiency ranging 80 percent when tested against 0.3-micron sodium chloride particle	200	Consumable

STATE PROJECT DIRECTOR
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Package-5 IT INFRASTRUCTURE			
S.No.	**Item**	**Description**	**Qty**
1	Computer Lab	Server i3 with Minimum 16GB RAM and 512 GB SSD with 4 Clients (Quad core or Equivalent and higher) Expandable to 70 clients: Mini / micro / ultra-small PC form factor, WiFi (802.11 b/g/n/ac) network and hotspot support, and lock Should Work Offline and Online User accounts - A dedicated desktop and Learning Management System access account for each teacher and student to customise their experience and maintain integrity Structured Networking, 6U network rack, 5 port unmanaged Gigabit (10/100/1000 Mbps) switch. Minimum Cat 5e UTP cable with casing, capping with all accessories along with cable laying till smart class (including I/O, Patch cords etc).	10 Set
2	Smart Clssroom	stylus for wireless interactivity, Wireless Keyboard, Wireless Mouse (Optional), DLP Projector Min ANSI Lumens 3000;	10
1	Table for Students	Table with chair for students Table size 22"*14"x30" height seat size 14"*14 made of 18 mm thick Ply with mica with 1" sq pipe 1.22 mm thickness	100
2	Chairs for Students		300
3	Teacher Table and Chair	Teacher table without drawer Size 36" x24" x30" made of 18 mm thick Ply with mica with 1" square pipe 1.22 mm thickness	10

4	3D Printer Table	Printer table size 24"x18" having space for printer and papers made of 18 mm thick Ply with mica with 1" sq pipe	10
5	Storage Cabinets	Storage cabinet 6'x3' Made of 18 mm thick Ply with mica	20
6	Table for Server and clients	Table 6*3 Made of 18 mm thick Ply with mica with 1" sq pipe	40

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

2. Details can be obtained from the Office of the State Project Director, Samagra Shiksha, Mizoram, Top Floor, School Education Complex Building, Mc Donald Hill, Zarkawt, Aizawl (Tel - 0389 2306630, Tele/Fax 0389 2340377) or may be downloaded from **www. Samagra.mizoram.gov.in/tender.mizoram.gov.in** on payment of Rs. 500/- per document (non-refundable) on working days from ___ **July, 2024 upto 12:30 PM of** ___**August, 2024** during office hours.
3. Bids must be accompanied by Earnest Money of the amount specified in Part IV (Clause 11) of the ITB".
4. The bid for the work shall remain open for acceptance for a period of 90 days from the date of opening of bids. If any bidder withdraws his bid before the said period or makes any modification in the terms and conditions of the bid. The said Earnest Money shall stand forfeited.
5. Other details can be seen in the bidding documents.

15/7/24

(LALSANGLIANA)
State Project Director
Samagra Shiksha, Mizoram

Part – IV
INFORMATION TO BIDDERS (ITB)

1. **Scope of Bid:**

1.1 The purpose of this assignment is to obtain independent and objective assessment of the quality of Laboratory Equipment for Atal Tinkering Lab under Samagra Shiksha, Mizoram (referred to as the Society for brevity's sake hereinafter), and to assure that the same are of best quality at the most affordable price.

1.2 The Successful Bidder will be expected to complete the supply by the intended completion period as specified in part – I of the tender document.

1.3 Extension of time will be allowed only if the hindrance is submitted to State Project Director and are found to be reasonable.

2. **Eligible Bidders:**

2.1 This Invitation for Bids is opened to all bidders as defined in clause 3 of ITB.

2.2 Bidder shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, State Govt. or any Public undertaking by whatever name called under the Central or the State Govt.

3. **Qualification of the Bidders:**

The bidder must be the owner of a reliable company/firm or agents or distributor dealing with Atal Tinkering Lab (Hereinafter referred to as ATL) that are able to supply, install and conduct training for ATL as given in Part III of the tender document.

3.1 All Bidders should include the following information and documents with their bids:

(a) **Self attested copies of documents** defining the constitution or legal status, place of registration and principal place of business, written power of Attorney of the Signatory of the bid to commit the bidder.

(b) Total monetary value of similar works performed for each of the last 2 years **(compilation sheet and supporting documents should be attached)**.

(c) Experience in works of a similar nature during the last 5-10 years and detail of works in progress or contractually committed, if any, supported by copies of work order **(compilation sheet and supporting documents should be attached)**.

(d) should be one of an indicative vendor list of ATL given by NITI Aayog with eligibility of ''ALL ATL WORK"

Note: Sl. No. 3.1 (b) and (c) may be produced in one document and original copies should be produced at the time of bid opening and at any other time as may be required by the society.

3.2 Each bidder must produce:

(a) An affidavit that the information furnished with the bid documents is correct in all respects **(original document should be attached)**.

3.3 Financial status (Balance Sheet) certified by Chartered Accountant firm for the last minimum 2 years to show financial soundness with a transaction not less than half the contract price.

3.4 Bank certificate showing soundness of capital investments **(original document should be attached)**.

4. **Disqualification:**

4.1 Absence of anyone of the documents stated on clauses 3.1 to 3.4 will be disqualified with the acceptance of the Bidders.

Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

(a) Made misleading or false representation in the forms, statements, affidavits and attachment, submitted in proof of the qualification requirements, and /or

(b) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.

(c) Participated in previous bidding for the same type of work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to the Society.

5. **No. of Bid per bidder:**

5.1 Each bidder shall submit only 1 bid for 1 work. A bidder who submits more than 1 bid for the same work will cause the proposals with the bidder's participation to be disqualified.

6. **Pre-Bid Meeting:**

6.1 Pre-Bid meeting **at the request of majority of the potential bidder** may be arranged at the time and place fixed by the Society.

6.2 The Bidder or his authorized representative shall be invited to attend Pre-Bid Meeting.

6.3 The purpose of the meeting shall be to clarify issues and to answer question to any matter that may be raised at the stage.

6.4 Non-attendance at the Pre-Bid Meeting will not be a cause for disqualification of a bidder.

7. **Amendment of Bidding Documents:**

7.1 Before the deadline for submission of bids, the Society may modify the bidding documents by issuing addenda.

7.2 Any addendum thus issued shall be part of the bidding documents and shall be notified.

7.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Society shall extend, as necessary, the deadline for submission of bids.

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA MEDRAM *

8. **Language of Bids:**

8.1 All documents relating to the bid shall be in English.

9. **Documents Comprising the Bids:**

9.1 The Bids submitted by the bidder shall be in two separate parts.

Part –I

It shall be named "Technical Bid" and shall comprise of:

(a) Earnest Money in a separate sealed envelope cover marked, "Earnest Money".

(b) Qualification information, supporting documents, affidavit as specified in clause 3 of ITB.

(c) An Affidavit affirming that information he has furnished in the bidding document is correct to the best of his knowledge and belief.

Part – II

It shall be named "Financial Bid" and shall comprise of:

(a) Form of bid as specified in Part VII.

(b) Priced Bill of Quantities as specified in Part IX.

Each part shall be separately sealed and marked in accordance with sealing and marking instruction in clause 13.

10. **Bid Price:**

10.1 All duties, taxes, royalties and other levies payable by the bidder under the contract, or for any other cause, shall be included in the rates, prices, and total bid price submitted by the bidder.

10.2 The rates and prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment.

10.3 All rates/prices quoted should be FOR destination.

11. **Earnest Money:**

11.1 The bidder shall furnish, as part of the bid, Earnest Money of 2% of the estimated cost.

11.2 The Earnest Money shall, at the Bidder's option, be in the form of **Demand Draft/Fixed Deposit/ Deposit at Call of a Scheduled Bank guaranteed by the Reserve Bank of India** and issued in favour of the name given in Part – I (the Society). The Fixed Deposit Receipt/ Deposit at Call Receipt shall be **valid for at least for 4 months.**

11.3 The Earnest Money of unsuccessful bidders will be returned.

11.4 The Earnest Money of the successful bidder will be discharged when the bidder has signed the Agreement and furnished the required Performance Security or may be used as part of Performance Security.

11.5 As per GOI guidelines, MSME will be exempted for EMD and they need to furnish the Udyam Registration Certificate.

12. **Format and Signing of Bids:**

12.1 The Bidder shall submit 1 set of the bid comprising of the Documents as described in clause 9.

12.2 All Pages **(both front and back side)** of the bid shall be signed by the bidder.

12.3 The bids shall contain no over writing, alteration or addition, except those to comply with instructions issued by the Society, or as necessary to correct errors made by the bidders, in which case such corrections shall be made by scoring out the cancelled portion, writing the correction and initialing and dating it by the bidder.

13. **Sealing & Marking of bids:**

13.1 The Bidder shall place the two separate envelopes (called inner envelopes) marked "Technical Bid" and "Financial Bid" in one outer envelope. The inner envelope will have markings as follows:

Technical Bid: To be opened on Date & Time of Technical Bid opening as indicated in Part - I

Financial Bid: Not to be opened except with the approval of the Society.

The contents of the Technical and Financial Bids shall be as specified in clause 9.1 of ITB

13.2 The inner and outer envelopes containing the Technical & Financial Bids shall–

(a) Be addressed to the Society at the address provided in the Part I

(b) Provide a warning not to be opened before the specified time and date for Bid opening as defined in Part – I.

14. **Deadline for submission of Bids**

14.1 Complete Bids (Including Technical and Financial) must be received by the Society at the address specified in the Part – I not later than the date and time indicated in Part – I

14.2 The Society may extend the deadline for submission of Bids by issuing an amendment in accordance with clause 7, in which case all rights and obligations of the Society and the Bidders previously subject to the original deadline will then be subject to the new deadline.

15. **Bid Opening:**

15.1 The Society will open the Bids received (except those received late) in the presence of the Bidders/Bidders' representatives who chose to attend at the time, date and place specified in the Part – I.

15.2 The envelope containing the Technical Bid only shall be opened.

15.3 In all other cases the availability of Earnest Money, forms and validity shall be announced. Thereafter, the Bidders' names and such other details as the Society may consider appropriate, will be announced by the Society at the opening.

15.4 Evaluation of Technical Bids with respect to Bid Security, Qualification information and other information furnished in Part – I of Clause 9.1 shall be taken up immediately.

15.5 The Society shall inform, whose technical bids are found responsive, date, time and place of opening as stated in Part – I.

15.6 At the Time of opening of the Financial Bids, the names of the bidders whose bids were found responsive in accordance with clause 15.4 of ITB will be announced. The financial bids of only these bidders will be opened. The remaining bids will be returned unopened to the Bidders. The responsive bidders' names, the bid prices, the total amount of each bid, and such other details as the Society may consider appropriate will be announced by the Society at the time of bid opening. Any bid price, which is not read out and recorded, will not be taken into account in Bid evaluation.

15.7 The Society shall prepare the minutes of the opening of the Financial Bids.

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, ML

DIRECTOR SAMAGRA SHIKSHA, MIZORAM

16. **Process to be Confidential:**

16.1 Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful bidder has been announced. Any attempt by a bidder to influence the Society's processing of bids or award decisions may result in the rejection of his Bid.

17. **Clarification of Bids and Contacting the Society:**

17.1 No Bidder shall contact the Society on any matter relating to its Bid from the time of the Bid opening to the time the contract is awarded.

17.2 Any attempt by the Bidder to influence the Society's Bid evaluation, Bid comparison or contract award decision may result in the rejecting of his Bid.

18. **Examination of Bids and determination of Responsiveness:**

18.1 During the detailed Evaluation of "Technical Bids" the Society will determine whether each bid

(a) meets the eligibility criteria define in clauses 2 & 3 (ITB)

(b) has been properly signed

(c) is accompanied by the required securities and

(d) substantially responsive to the requirement of the Bidding Documents.

During the detailed Evaluation of the "Financial Bid", the responsiveness of the Bid will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities and technical specifications. In short, the responsiveness eligibility and/or Qualification of the Bidder shall be Evaluated based on: -

i. Financial capability of the bidder.

ii. The Bidder capability to manage similar size and nature of work.

iii. The bidder past performance and experience in executing similar contract work.

iv. The bidder past litigation history.

v. Any other documents submitted by the bidder to augment the advantage in commencing the work.

18.2 A substantially responsive "Financial Bid" is one, which conforms to all the rates as quoted in the Bill of Quantities.

18.3 If a financial bid is not substantially responsive, it will be rejected by the Society, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

19. **Award Criteria:**

19.1 The Society will award the contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has scored the highest mark in comparative statement provided that such bidder has been to be eligible in accordance with the provision of clause 2 and qualified in accordance with the provision of Clause 3 of ITB.

19.2 The Society reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids, at any time prior to the award of contract, without thereby

incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for the Society's action.

19.3 The Society will have the right not to award the lowest bidder without announcing any reason behind.

19.4 Item-wise selection shall not be undertaken while evaluating the bid, rather, whole package of the items as given in Sl. No. 1 of Part III shall be considered for evaluation and award of the contract for each FOR.

20. **Notification of Award & Signing of Agreement:**

20.1 The bidder whose bid has been accepted will be notified of the Award by the Society prior to expiration of the Bid Validity Period. This letter will state that the Society will pay to the successful bidder in consideration of the Execution and Completion.

20.2 The Notification of the Award will constitute the formation of the contract, subject only to the furnishing of a Performance Security in accordance with the provisions of clause 21.

20.3 The Agreement will incorporate all agreement between the Society and the successful Bidder. It will be signed by the Society and the successful Bidder after the Performance Security is furnished.

21. **Performance Security:**

21.1 Within 10 days after receipt of Letter of Acceptance, the successful bidder shall deliver to the Society, a Performance Security of 5% of the estimated cost.

21.2 The Performance Security shall be either in the form of a Bank Guarantee or Fixed Deposit Receipts in the name of the Society, from a Scheduled Bank guaranteed by the Reserve Bank of India, valid up to 60 days beyond the warranty period given in Part III of the tender document.

21.3 Failure of the Successful Bidder to comply with the requirement of clause 21.1 shall constitute sufficient grounds for cancellation of the Award and forfeiture of the Earnest Money.

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – V

EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES

BANK CERTIFICATE

This is to certify that M/S _____

is a reputed company/society /firm with a good financial standing. If the contract for the work, namely, _____

is awarded to the above company/society /firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. _____(Rupees _____)

only to meet their working capital requirements for executing the above contract.

Signature of Senior Bank Manager _____

Name of the Senior Bank manager _____

Address of the Bank _____

_____

Stamp of the Bank

Note: Certificate should be given in the letter head of the Bank.

Part – VI

Letter of Acceptance

Date:_____

To,

(Name of the Contractor)

(Address of the Contractor)

This is to notify you that the **State Project Office, Samagra Shiksha, Mizoram** has accepted your Bid dated _____ for **Supply of Lab Equipment for Atal Tinkering Lab** for the Contract Price of Rs. _____ (Rupees _____) only as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Society.

You are hereby requested to furnish Performance Security in the form detailed in Clause 21 of ITB for an amount of Rs _____ within 14 days of the receipt of this letter of acceptance valid up to 60 days from the date of expiry of Defects Liability Period _____ and sign the contract, failing which, action as stated in Clause 21.3 of ITB will be taken.

Yours faithfully,

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Society: _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA

Part VII

Form of bid

To,

(Name of the Society) _____

Address (Address of the Society) _____

_____

Description of the Work _____

_____

1. I/We offer to execute the works described above and remedy any defects therein, and carry out the conditions of contract, specifications, Bill of Quantities and Addenda for item rate Contract (Total Bid Price) Rs. _____ (in figures) Rupees _____ (in words)
2. We undertake to commence the works on receiving work order in accordance with the contract documents.
3. This Bid and your written acceptance of it shall constitute a binding contract between us.
4. We understand that that you are not bound to accept the lowest or any Bid you receive.
5. We hereby confirm that this Bid complies with the Bid validity and Earnest Money required by the bidding documents.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Bidder: _____

Address: _____

_____

Note : The Bidder shall fill in and submit this Bid form with the Bid

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – VIII
TERMS OF REFERENCE (TOR)

1. **Background:**

The Samagra Shiksha – An Integrated Scheme on School Education envisages the 'school' as a continuum from pre-school3, primary, upper primary, secondary to Senior Secondary levels. The vision of the Scheme is to ensure inclusive and equitable quality and holistic education from pre-school to senior secondary stage in accordance with the Sustainable Development Goal (SDG) for Education4 and the National Education Policy (NEP) 2020The objective of this scheme is to foster curiosity, creativity, and imagination in young minds; and inculcate skills such as design mindset, computational thinking, adaptive learning, physical computing etc. The main outcomes of the Scheme are envisaged as Universal Access, Equity and Quality including Vocational Education, Inclusive Education, and increased use of Technology and strengthening of Teacher Education Institutions (TEIs)

ATL is a workspace where young minds can give shape to their ideas through hands on do-it-yourself mode; and learn innovation skills. Young children will get a chance to work with tools and equipment to understand the concepts of STEM (Science, Technology, Engineering and Math). ATL would contain educational and learning 'do it yourself' kits and equipment on – science, electronics, robotics, open-source microcontroller boards, sensors and 3D printers and computers. Other desirable facilities include meeting rooms and video conferencing facility.

In order to foster inventiveness among students, ATL can conduct different activities ranging from regional and national level competitions, exhibitions, workshops on problem solving, designing and fabrication of products, lecture series etc. at periodic intervals.

2. **Objectives:**

The main objective of this assignment:

2.1 To obtain independent and objective assessment of the quality of Laboratory Equipment to be procured under Atal Tinkering Lab of Samagra Shiksha, Mizoram.

2.2 To assure that the Lab equipment so procured are of best quality at the most affordable price.

2.3 To assure the rightful installation of the Lab and training of ATL schools teachers and students.

3. **Governing Factors:**

3.1 The Supplier shall have prior experience at least for 2 years in the field of supply of ATL, Installation and imparting of Training for ATL and completed a similar magnitude of works that covered in the proposed work.

3.2 The Supplier shall execute according to the items given in Bill of Quantities.

3.3 The Supplier shall not have the right to alter the conditions at any cost. In case of any alterations is found necessary in the specifications, the same shall be brought to the notice of State Project Office immediately.

3.4 The assignment mentioned herein is intended to be job oriented and not time oriented and the Supplier shall not be entitled to claim any compensation in the event of the time estimated for the completion of the work being extended for any reason whatsoever.

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

3.5 In order to ensure the quality and timely completion of the work, the Supplier should remain present in contact with the Society.

3.6 Rates agreed shall be firm till the completion of work inclusive of transportation, stationary, communication charges, Service Tax and all other applicable taxes.

4. **Report to:**

State Project Director, Samagra Shiksha, Mizoram, Top Floor, School Education Complex Building, Mc Donald Hill, Zarkawt, Aizawl, Mizoram.

6. **Stages of Deposits and Payments:**

6.1 Payment Schedule: Payments must be made by State Project Director, Samagra Shiksha, Mizoram Through PFMS within 30 days from completion of the work.

7. **Inputs from State Project Office, Samgra Shiksha, Mizoram:**

7.1 List of delivery shall be as below:

Place of delivery, Installation and Training	No. of Lab Equipment to be delivered	Name of FOR
GOVT. MAMIT HIGH SCHOOL	1	GOVT. MAMIT HIGH SCHOOL
GOVT. MARPARA HIGH SCHOOL	1	GOVT. MARPARA HIGH SCHOOL
GOVT. KAWRTETHAWVENG HIGH SCHOOL	1	GOVT. KAWRTETHAWVENG HIGH SCHOOL
RAJIV NAGAR RMSA SECONDARY SCHOOL	1	RAJIV NAGAR RMSA SECONDARY SCHOOL
GOVT. RENGDIL HIGH SCHOOL	1	GOVT. RENGDIL HIGH SCHOOL
SILSURY SECONDARY SCHOOL	1	SILSURY SECONDARY SCHOOL
GOVT. DARLUNG HIGH SCHOOL	1	GOVT. DARLUNG HIGH SCHOOL
GOVT. PHULDUNGSEI HIGH SCHOOL	1	GOVT. PHULDUNGSEI HIGH SCHOOL
GOVT. RAWPUICHHIP HIGH SCHOOL	1	GOVT. RAWPUICHHIP HIGH SCHOOL
DARLAK RMSA SECONDARY SCHOOL	1	DARLAK RMSA SECONDARY SCHOOL

8. **General Requirements:**

8.1 The State Project Director, Samagra Shiksha, Mizoram reserves full right to alter its requirements.

8.2 The decision of State Project Director, Samagara Shiksha, Mizoram will be final in all the matters.

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Tender Document for Supply of [illegible] Equipment Upto Atol [illegible] & Training

Part – IX
BILL OF QUANTITIES

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – IX
BILL OF QUANTITIES

FOR **Govt. Mamit High School**

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
32	Electronics Development	Motor driver Module			10	
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
65	Internet of Things & Sensors	M Q Series			3	
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	**Category**	**Name**	**Specification**	**Rate**	**Quantity**	**Amount**
98	Robotics	L298P Motor Driver			10	
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA *

Part – IX
BILL OF QUANTITIES

FOR **Govt. Marpara High School**

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	
32	Electronics Development	Motor driver Module			10	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	
65	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIR... SAMAGRA SHIKSHA, M...

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	
98	Robotics	L298P Motor Driver			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – IX
BILL OF QUANTITIES

FOR Govt. Kawrtethawveng High School

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	
32	Electronics Development	Motor driver Module			10	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	
65	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIR... SAMAGRA SHIKSHA, MIZO...

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	
98	Robotics	L298P Motor Driver			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	**Category**	**Name**	**Specification**	**Rate**	**Quantity**	**Amount**
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX
BILL OF QUANTITIES

FOR Rajiv Nagar RMSA Secondary School

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	
32	Electronics Development	Motor driver Module			10	

STATE PROJECT DIR... SAMAJIKA SHIKSHA, MIZ...

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	
65	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	
98	Robotics	L298P Motor Driver			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	**Category**	**Name**	**Specification**	**Rate**	**Quantity**	**Amount**
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

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STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX

BILL OF QUANTITIES

FOR Govt. Rengdil High School

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	
32	Electronics Development	Motor driver Module			10	

STATE PROJECT DIREC... SAMAGRA SHIKSHA, MDO...

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	
65	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	
98	Robotics	L298P Motor Driver			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

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STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX
BILL OF QUANTITIES

FOR **Silsury Secondary School**

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	
32	Electronics Development	Motor driver Module			10	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	
65	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	
98	Robotics	L298P Motor Driver			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

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STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX
BILL OF QUANTITIES

FOR **Govt. Darlung High School**

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
32	Electronics Development	Motor driver Module			10	
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
65	Internet of Things & Sensors	M Q Series			3	
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
98	Robotics	L298P Motor Driver			10	
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

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Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX
BILL OF QUANTITIES

FOR **Govt. Phuldungsei High School**

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	

STATE PROJECT DIRECTOR SARVA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
32	Electronics Development	Motor driver Module			10	
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
65	Internet of Things & Sensors	M Q Series			3	
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
98	Robotics	L298P Motor Driver			10	
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

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STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Part – IX
BILL OF QUANTITIES

FOR **Govt. Rawpuichhip High School**

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
32	Electronics Development	Motor driver Module			10	
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
65	Internet of Things & Sensors	M Q Series			3	
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	**Category**	**Name**	**Specification**	**Rate**	**Quantity**	**Amount**
98	Robotics	L298P Motor Driver			10	
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

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Part – IX
BILL OF QUANTITIES

FOR **Darlak RMSA Secondary School**

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors

S. No.	Category	Name	Specification	Rate	Quantity	Amount
1	Electronics Development	Arduino Uno or equivalent			30	
2	Electronics Development	Arduino Nano or equivalent			10	
3	Electronics Development	Arduino Mega or equivalent			10	
4	Electronics Development	Raspberry PI			5	
5	Electronics Development	Breadboards & Mini Breadboard			30	
6	Electronics Development	Breadboards & Mini Breadboard			20	
7	Electronics Development	Breadboards & Mini Breadboard			20	
8	Electronics Development	General Purpose solderable Board			30	
9	Electronics Development	General Purpose solderable Board			30	
10	Electronics Development	Berg Strips			30	
11	Electronics Development	Berg Strips			30	
12	Electronics Development	16x2 LCD display			20	
13	Electronics Development	USB Cables			10	
14	Electronics Development	USB Cables			10	
15	Electronics Development	Battery			10	
16	Electronics Development	Resistor Kit			20	
17	Electronics Development	Capacitor Kit			20	
18	Electronics Development	Linear Voltage Regulator			30	
19	Electronics Development	Water Pump module			4	
20	Electronics Development	Piezoelectric Plate			30	
21	Electronics Development	8*8 LED Matrix Module			10	
22	Electronics Development	Bluetooth module			15	
23	Electronics Development	7 Segment Led Display			20	
24	Electronics Development	GSM			4	
25	Electronics Development	GPS			4	
26	Electronics Development	Laser Diode Emitter			10	
27	Electronics Development	LDR Module			30	
28	Electronics Development	Keypad			10	
29	Electronics Development	Joystick			10	
30	Electronics Development	Active Buzzer			40	
31	Electronics Development	Active Buzzer			40	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
32	Electronics Development	Motor driver Module			10	
33	Electronics Development	Sound Playback Module			10	
34	Electronics Development	DC Plastic Gear motor with wheel			40	
35	Electronics Development	Node MCU			6	
36	Electronics Development	WeMos D1 R2			6	
37	Electronics Development	Vibrating Motor			20	
38	Electronics Development	Alligator Connectors			200	
39	Electronics Development	Battery clips with DC Jack			40	
40	Electronics Development	Hook-up Wires			4	
41	Electronics Development	Jumper Cable			1000	
42	Electronics Development	Jumper Cable			600	
43	Electronics Development	Jumper Cable			400	
44	Electronics Development	RGB LEDs			400	
45	Electronics Development	LEDs (Red)			1000	
46	Electronics Development	LEDs (Green)			1000	
47	Electronics Development	LEDs (Blue)			1000	
48	Electronics Development	LEDs (Yellow)			1000	
49	Electronics Development	LEDs (White)			1000	
50	Electronics Development	Timer IC- LM 555			30	
51	Electronics Development	Atmega16u2			10	
52	Electronics Development	Diodes and Transistors Kit			3	
53	Electronics Development	Button Switch Set			3	
54	Electronics Development	Capacitative touch Module			20	
55	Electronics Development	Capacitative Touch Switch Module			10	
56	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module			20	
57	Internet of Things & Sensors	Triple Axis Magnetometer			10	
58	Internet of Things & Sensors	Humidity Sensor			10	
59	Internet of Things & Sensors	M Q Series			3	
60	Internet of Things & Sensors	M Q Series			3	
61	Internet of Things & Sensors	M Q Series			3	
62	Internet of Things & Sensors	M Q Series			3	
63	Internet of Things & Sensors	M Q Series			3	
64	Internet of Things & Sensors	M Q Series			3	

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
65	Internet of Things & Sensors	M Q Series			3	
66	Internet of Things & Sensors	M Q Series			3	
67	Internet of Things & Sensors	IR transmitter/receiver			10	
68	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible			40	
69	Internet of Things & Sensors	Triple Axis accelerometer-			10	
70	Internet of Things & Sensors	PIR Motion Detector Module			20	
71	Internet of Things & Sensors	Pulse Rate Heart Sensor			4	
72	Internet of Things & Sensors	Relay Module			20	
73	Internet of Things & Sensors	Relay Module			20	
74	Internet of Things & Sensors	Big Sound microphone module			10	
75	Internet of Things & Sensors	Big Sound microphone mod ule			10	
76	Internet of Things & Sensors	Soil Moisture Sensor module			6	
77	Internet of Things & Sensors	Touch Sensor			6	
78	Internet of Things & Sensors	Metal Touch Sensor Module			6	
79	Internet of Things & Sensors	Rain Drop Sensor			6	
80	Internet of Things & Sensors	Flex Sensor			6	
81	Internet of Things & Sensors	Temperature Sensor			6	
82	Internet of Thin gs & Sensors	Temperature and humidity sensor module			40	
83	Internet of Things & Sensors	Force Pressure Sensor			4	
84	Internet of Things & Sensors	Colour Recognit ion Sensor			4	
85	Internet of Things & Sensors	Water Flow Sensor			4	
86	Internet of Things & Sensors	Sound Sensor			10	
87	Internet of Things & Sensors	IR Sensors Array module for Line Following			10	
88	Internet of Things & Sensors	Power Bank			5	
89	Internet of Things & Sensors	RFID Reader - Tags			10	
90	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK			10	
91	Robotics	Stepper motor with Driver board			10	
92	Robotics	DC motor			20	
93	Robotics	Servo motors			10	
94	Robotics	Servo motors			10	
95	Robotics	Servo motors			10	
96	Robotics	Servo motors			20	
97	Robotics	150 RPM BO Motor			10	

Package 1 : Electronics Development , Robotics, Internet of Things And Sensors						
S. No.	Category	Name	Specification	Rate	Quantity	Amount
98	Robotics	L298P Motor Driver			10	
99	Robotics	Servo Motor Tester			4	
100	DIY Kit	Robotics DIV Kit			3	
101	DIY Kit	Mechanical (Modular) Construction kit			5	
102	STEM Learn ing/ App lication Kit	Drone Kit			1	
103	Robotics DIY KIT	Aerospace Kit			1	
104	Robotics DIY KIT	Automobile Kit			1	
105	Robotics DIY KIT	Bio-Medical Kit			1	
106	Robotics DIY KIT	Agri-Tech Kit			1	
107	Robotics DIY KIT	Water/ Sanitat ion Kit			1	
108	Robotics DIY KIT	Bio Tech Kit			1	
109	Robotics DIY KIT	Other Potential STEM Application Kit			1	
			TOTAL			

Rupees in word (_____

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STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX
BILL OF QUANTITIES

FOR Govt. Mamit High School

Package 2: Rapid Prototyping Tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

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STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – IX

BILL OF QUANTITIES

FOR Govt. Marpara High School

Package 2: Rapid Prototyping Tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

Rupees in word (_____

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STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

Part – IX
BILL OF QUANTITIES

FOR Govt. Kawrtethawveng High School

Package 2: Rapid Prototyping Tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

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STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – IX

BILL OF QUANTITIES

FOR Rajiv Nagar RMSA Secondary School

Package 2: Rapid Prototyping Tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

Rupees in word (_____

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STATE PROJECT DIRECTOR SAMAGRA SHIKSHA MIZORAM

Part – IX
BILL OF QUANTITIES

FOR Govt. Rengdil High School

Package 2: Rapid Prototyping Tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

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STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – IX

BILL OF QUANTITIES

FOR Silsury Secondary School

Package 2: Rapid Prototyping Tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

Rupees in word (_____

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STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX

BILL OF QUANTITIES

FOR Govt. Darlung High School

Package 2: Rapid Prototyping Tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

Rupees in word (_____

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Name of Proprietor _____

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STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – IX

BILL OF QUANTITIES

FOR Govt. Phuldungsei High School

Package 2: Rapid Prototyping Tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

Rupees in word (_____

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SAMAGRA SHIKSHA, MIZORAM

Part – IX
BILL OF QUANTITIES

FOR Govt. Rawpuichhip High School

Package 2: Rapid Prototyping Tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

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Part – IX
BILL OF QUANTITIES

FOR Darlak RMSA Secondary School

Package 2: Rapid Prototyping Tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Rapid Prototyping Tools	3D Printer Kit and tools (Ender 3)			1	
2	Rapid Prototyping Tools	Dedicated UPS/Power back up			1	
3	Rapid Prototyping Tools	Filament for 3D printer			5	
4	Rapid Prototyping Tools	Filament Storage Box			5	
5	Rapid Prototyping Tools				5	
6	Rapid Prototyping Tools				1PCK	
7	Rapid Prototyping Tools				1PCK	
8	Rapid Prototyping Tools				2	
			TOTAL			

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SAMAGRA SHIKSHA, MIZORAM

FOR Govt. Mamit High School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

FOR Govt. Marpara High School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

FOR Govt. Kawrtethawveng High School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

FOR Rajiv Nagar RMSA Secondary School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA

FOR Govt. Rengdil High School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

FOR Silsury Secondary School

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

FOR Govt. Darlung High School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

FOR Govt. Phuldungsei High School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

FOR Govt. Rawpuichhip High School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA, MIZORAM

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

FOR Darlak RMSA Secondary School

Package 3: Mechanical, Electrical and Measurement tools

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Mechanical Tools	Hacksaw Frame			1	
2	Mechanical Tools	Hacksaw blades			10	
3	Mechanical Tools	Mini Hacksaw Frame			1	
4	Mechanical Tools	Mini Hacksaw blades			10	
5	Mechanical Tools	Pliers: 4.5-inch size			1	
6	Mechanical Tools				1	
7	Mechanical Tools				1	
8	Mechanical Tools				1	
9	Mechanical Tools				1	
10	Mechanical Tools				1	
11	Mechanical Tools				1	
12	Mechanical Tools	Tweezer Set			2	
13	Mechanical Tools	Ball Pein Hammer			1	
14	Mechanical Tools	Steel Shaft Claw Hammer			1	
15	Mechanical Tools	C-Clam p			4	
16	Mechanical Tools	Allen Key Set			1	
17	Mechanical Tools	Drill Machine Set			1	
18	Mechanical Tools	Drilling Workstation			1	
19	Mechanical Tools	Spanner Set			1	
20	Mechanical Tools	Vice Normal			1	
21	Mechanical Tools	Precision Screw Driver Set			2	
22	Mechanical Tools	Wrench			2	
23	Mechanical Tools	Wire Strippers			5	
24	Mechanical Tools	Screwdriver			3	
25	Mechanical Tools	Cordless Rotary Multitool Set			1	
26	Mechanical Tools	Air Blower			1	
27	Mechanical Tools	Drill Bit Set			1	
28	Mechanical Tools	File set			1	
29	Mechanical Tools	Mini File set			1	
30	Mechanical Tools	Flexible Cutting Mat			1	
31	Mechanical Tools	Plastic Storage Drawer / Organiser			2	
32	Mechanical Tools	Pegboard			2	

Package 3: Mechanical, Electrical and Measurement tools						
S. No.	Category	Name	Description	Rate	Quantity	Amount
33	Electric Tools	Hot glue gun			4	
34	Electric Tools	Digital Oscilloscope			1	
35	Electric Tools	Soldering Kit			2	
36	Electric Tools	Soldering Kit			4	
37	Electric Tools	Soldering Kit			4	
38	Electric Tools	Soldering Kit			4	
39	Electric Tools	Soldering Kit			4	
40	Electric Tools	Adapters			10	
41	Electric Tools	Adapters			10	
42	Electric Tools	Electric Screw Driver Set			1	
43	Electric Tools	Dual Temperature Heat Gun			1	
44	Electric Tools	Soldering Helping hand			4	
45	Measurement Tools	Return measuring tape			2	
46	Measurement Tools	Stainless Steel Rule			5	
47	Measurement Tools	Digital Vernier Calliper			2	
48	Measurement Tools	Spirit Level			1	
49	Measurement Tools	Digital Pen electric Tester			1	
50	Measurement Tools	Digital Multi Meter			5	
51	Biology Kit	DIY Paper Microscope			5	
52	Astronomy Equipment	Telescope			1	
53	Textile Equipment	Sewing Kit			1	
			TOTAL			

Rupees in word (_____

_____**) Only**

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – IX
BILL OF QUANTITIES

FOR Govt. Mamit High School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Part – IX
BILL OF QUANTITIES

FOR Govt. Marpara High School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Signature _____

Name of Proprietor _____

Firm Seal _____

Part – IX
BILL OF QUANTITIES

FOR Govt. Kawrtethawveng High School

Package 4: Power Supply & Accessories and Safety Equipment						
S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA MIZORAM *

Part – IX
BILL OF QUANTITIES

FOR Rajiv Nagar RMSA Secondary School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

FOR Govt. Rengdil High School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA MIZORAM

Part – IX
BILL OF QUANTITIES

FOR Silsury Secondary School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX
BILL OF QUANTITIES

FOR Govt. Darlung High School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____**) Only**

STATE PROJECT DIRECTOR
SAMAGRA SHIKSHA, MIZORAM

Signature _____

Name of Proprietor _____

Firm Seal _____

Part – IX
BILL OF QUANTITIES

FOR Govt. Phuldungsei High School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX
BILL OF QUANTITIES

FOR Govt. Rawpuichhip High School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR MIZORAM

Part – IX
BILL OF QUANTITIES

FOR Darlak RMSA Secondary School

Package 4: Power Supply & Accessories and Safety Equipment

S. No.	Category	Name	Description	Rate	Quantity	Amount
1	Power Supply & accessories	Glue Sticks			100	
2	Power Supply & accessories	Nuts and Bolts and screw			40	
3	Power Supply & accessories	Cable Tie			10	
4	Power Supply & accessories	Cable Tie			10	
5	Power Supply & accessories	Cable Tie			10	
6	Power Supply & accessories	Sand Paper			10	
7	Power Supply & accessories	Power Strip Adaptors			5	
8	Power Supply & accessories	Bulb Holders			10	
9	Power Supply & accessories	Electric Wires			20 meters	
10	Power Supply & accessories	USB TO DC jack cable			10	
11	Safety equipment	First-Aid Kit			2	
12	Safety equipment	Fire extinguisher (handy units)			2	
13	Safety equipment	Safety goggles (with/ without LED torch)			30	
14	Safety equipment	Safety Gloves Pairs			10	
15	Safety equipment	Safety Mask			20	
			TOTAL			

Rupees in word (_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX

BILL OF QUANTITIES

FOR Govt. Mamit High School

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX

BILL OF QUANTITIES

FOR Govt. Marpara High School

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR
SAMAGRA SIKSHA, MIZORAM

Part – IX

BILL OF QUANTITIES

FOR Govt. Kawrtethawveng High

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR

Part – IX

BILL OF QUANTITIES

FOR Rajiv Nagar RMSA Secondary

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR

Part – IX

BILL OF QUANTITIES

FOR Govt. Rengdil High School

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAG * MIZORAM *

Part – IX

BILL OF QUANTITIES

FOR Silsury Secondary School

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR SAMAGRA SHIKSHA

Part – IX

BILL OF QUANTITIES

FOR Govt. Darlung High School

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX

BILL OF QUANTITIES

FOR Govt. Phuldungsei High School

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA MIZORAM *

Part – IX

BILL OF QUANTITIES

FOR Govt. Rawpuichhip High

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR * SAMAGRA SHIKSHA, MIZORAM *

Part – IX

BILL OF QUANTITIES

FOR Darlak RMSA Secondary School

Package-5 IT INFRASTRUCTURE					
S.No.	Item	Description	Rate	Qty	Amount
1	Computer Lab			1 Set	
2	Smart Clssroom			1	
1	Table for Students			10	
2	Chairs for Students			30	
3	Teacher Table and Chair			1	
4	3D Printer Table			1	
5	Storage Cabinets			2	
6	Table for Server and clients			4	
		TOTAL			

Rupees in word

(_____

_____) Only

Signature _____

Name of Proprietor _____

Firm Seal _____

STATE PROJECT DIRECTOR SARVA SHIKSHA MIZORAM