

KENDRIYA VIDYALAYA SITAPUR  
LIST OF EQUIPMENT FOR ATL (ATAL TINKERING LABORATORY) QUOTATION

NAME OF FIRM :

**Package 1: Electronics Development, Robotics, Internet of Things and Sensors**

S.No.	Category	Name	Description	Type	Make	Quality ( ISI Marks / ISO Certified)	Size (If applicable)	Approximated Requirement (Units)	Price Per Unit with installation (in Rupees)	Total Price Per Unit with installation (including GST& other taxes/charges F.O.R.)	Total Amount (in Rupees)
1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
1	Electronics Development	Arduino UNO or compatible Microprocessor and microcontroller	Hardware development board with Memory and IO ports	Consumable				30			
2	Electronics Development	Arduino Nano		Consumable				5			
3	Electronics Development	RASPBerry PI 3	RASPBerry PI 3 MODEL B	Consumable				5			
4	Electronics Development	Breadboards & Mini Breadboard	Solderless 400 pin breadboard	Consumable				20			
			Solderless 800 pin breadboard	Consumable				10			
			Self Adhesive Proto Shield	Consumable				10			
5	Electronics Development	General Purpose solderable Board	FR2 A Grade Material (140 x 90 mm)	Consumable				20			
			FR2 A Grade Material (80 x 55 mm)	Consumable				20			
			Female Berg Strip 40 pins	Consumable				20			
			Male Berg Strip 40 pins	Consumable				20			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
6	Electronics Development	16x2 LCD display With I2C	Dot matrix LDC display with 16 characters x 2 lines	Consumable				30			
7	Electronics Development	USB Cables	USB Cable Set (A to B)	Consumable				30			
8	Electronics Development	9 Volt battery, multiple resistors and capacitors for electronic projects (various	Amperage, Range of Restistance, Capacity of Capacitator	Consumable				30 kits			
9	Electronics Development	Linear Voltage Regulator	7805, 7812,7809	Consumable				30			
10	Electronics Development	Water Pump module	DC12V 3W Submersible Water Pump	Consumable				1			
11	Electronics Development	Piezoelectric Plate	Normal Copper based 4 cm Diameter approx	Consumable				20			
12	Electronics Development	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module Mcu Control LED Display Module	Consumable				5			
13	Electronics Development	Bluetooth	HC 05 Working voltage 5 Volt	Consumable				10			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
14	Electronics Development	7 Segment Led Display	LED 4-Digit Display Module w/ Clock Point / 4-Pin Dupont Line for Arduino ( 20cm )	Consumable				4			
15	Electronics Development	GSM	Sim800L Gprs Transfer Board Micro Sim Gsm Core Ttl Port Module for Arduino	Consumable				3			
16	Electronics Development	GPS	GY-NEO6MV2 new GPS module	Consumable				3			
17	Electronics Development	Laser Diode	650Nm 6Mm 5V Dc 5Mw Mini Laser Dot Diode Module	Consumable				10			
18	Electronics Development	LDR Module	Photosensitive Ldr Light Sensor Module	Consumable				30			
19	Electronics Development	Keypad	Universal 16 Key Switch Keypad	Consumable				5			
20	Electronics Development	Joy Stick	Joystick Module for Arduino	Consumable				4			
21	Electronics Development	Active Buzzer	small 5 volt	Consumable				50			
			big 5 volt	Consumable				30			
22	Electronics Development	Motor driver	L293d	Consumable				5			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
23	Electronics Development	Sound Playback Module	Voice Board Recording Recorder Playback Module on Board Microphone with Mic Sound Audio Loudspeaker	Consumable				5			
24	Electronics Development	BO Motors With Wheel	Side Shaft BO Motor	Consumable				12			
25	Electronics Development	Node MCU / Wemos D1	WIFI Internet Development Board Module Node MCU	Consumable				5			
26	Electronics Development	Vibrating Motor	Vibrating Motor	Consumable				30			
27	Electronics Development	Alligator Connectors	Multi Colour Alligator Connectors	Consumable				100			
28	Electronics Development	Battery clips with DC Jack	9 volt battery clips with DC Jack	Consumable				20			
29	Electronics Development	Hookup Wires	Red & Black set 100 Meters each	Consumable				2			
30	Electronics Development	Jumper Cable	Male-Male	Consumable				600			
			Male-Female	Consumable				300			
			Female-Female	Consumable				150			
31	Electronics Development	RGB LEDs	Regular 5mm 3-5 volt Range	Consumable				100			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
32	Electronics Development	LEDs (Red)	Regular 5mm 3-5 volt Range	Consumable				500			
33	Electronics Development	LEDs (Green)	Regular 5mm 3-5 volt Range	Consumable				500			
34	Electronics Development	LEDs (Blue)	Regular 5mm 3-5 volt Range	Consumable				500			
35	Electronics Development	Diode	Different Basic Diodes kit	Consumable				2			
36	Electronics Development	Push Button Switch	Tactile Switch Micro - Push to On Button	Consumable				100			
37	Electronics Development	555 timer ic	555 timer ic	Consumable				50			
38	Electronics Development	Atmega16u2	Individual IC (DIP)	Consumable				5			
39	Electronics Development	MPR121	Capacitive touch module	Consumable				10			
40	Electronics Development	Capacitive Touch Switch	Capacitive Touch Switch	Consumable				5			
41	Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor	Detection range, detection angle	Consumable				10			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
42	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 Output Rate	Consumable				5			
43	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	Consumable				5			
44	Internet of Things & Sensors	MQ Series	MQ-4 Methane Natural	Consumable				2			
			MQ-3 Alcohol - Ethanol	Consumable				2			
			MQ-7 High Sensitivity CO	Consumable				2			
			MQ - 2 Smoke Detection	Consumable				2			
			MQ-135 Air Quality Sensor	Consumable				2			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
45	Internet of Things & Sensors	IR (transmitter) receiver - TSOP 1738	Switching rate – 38 KHz	Consumable				5			
46	Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible	Power supply Quiescent current Working current Effectual angle Ranging distance Resolution Working angle & dimension	Consumable				30			
47	Internet of Things & Sensors	Triple Axis accelerometer-	3-axis sensing Small, low profile package 4 mm × 4 mm × 1.45 mm LFCSP Low Power : 350 μA (typical) Single-supply operation: 1.8 V to 3.6 V Temperature stability	Consumable				5			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
48	Internet of Things & Sensors	PIR Motion Detector Module	High digital pulse when motion detected Low digital pulse when idle /no motion detected Sensitivity range (upto 6 m) Power supply: 5V – 12V	Consumable				10			
49	Internet of Things & Sensors	Pulse Rate Heart Sensor	Pulse Rate Sensor Finger Basedwore on the finger or earlobe Working voltage 3-5V	Consumable				2			
50	Internet of Things & Sensors	Relay Module	5V 10A 2 Channel Relay Module	Consumable				10			
51	Internet of Things & Sensors	Soil Moisture Sensor	Soil Moisture Detection Humidity Sensor Module	Consumable				3			
52	Internet of Things & Sensors	Touch Sensor	Capacitive Touch Sensor Module	Consumable				3			



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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
53	Internet of Things & Sensors	Metal touch sensor module		Consumable				3			
54	Internet of Things & Sensors	Rain Drop Sensor	Rain Sensitive , Rain Drop Detection Sensor Module	Consumable				3			
55	Internet of Things & Sensors	Flex Sensor	Flex Sensor 2.2 Inches	Consumable				5			
56	Internet of Things & Sensors	Temperature Sensor	Temperature Sensor Lm35	Consumable				20			
57	Internet of Things & Sensors	Force Pressure Sensor	force sensitive resistor with a square, 1.75x1.5", sensing area	Consumable				2			
58	Internet of Things & Sensors	Color Recognition Sensor	TCS3200 Color Recognition Sensor	Consumable				2			
59	Internet of Things & Sensors	Water Flow Sensor	Arduino Compatible	Consumable				1			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
60	Internet of Things & Sensors	Sound Sensor	Sound Sensor Module, Microphones module	Consumable				5			
61	Internet of Things & Sensors	IR Sensors Array for Line Follwing	IR Sensors Array for Line Follwing	Consumable				5			
62	Internet of Things & Sensors	10000 Mh 5 volt Power Bank	10000 Mh 5 volt Power Bank	Consumable				5			
63	Internet of Things & Sensors	RFID Reader – Tags	Current :13-26mA / DC 3.3V Idle Current :10-13mA / DC 3.3V Sleep Current<80uA Peak Current<30mA Operating Frequency: 13.56MHz<30mA Read range between 20 cm to 1 m	Consumable				3			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)	
64	Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK	Frequency Range: 433.92/315 MHz Supply Voltage: 3 – 6 V Output Power : 4 – 16 Dbm  Low power consumption  Easy application	Consumable				5				
65	Robotics	Stepper motor with Driver board	28BYJ-48 ULN2003 5V Stepper Motor +	Consumable				5				
66	Robotics	DC motor	12V DC Gear 150 RPM	Consumable				12				
67	Robotics	Servo motors	Position Servo Angle based Metal Gear	Consumable				4				
			Small Servo Metal Gear	Consumable				4				
			Continuous Metal Gear Servo 360	Consumable					4			
			Small Servo Plastic Gear	Consumable					30			
68	Robotics	150 RPM BO Motor	150 RPM BO Motor	Consumable				10				
69	Robotics	L298P Motor Driver	L298P Motor Driver Shield or relative Driver Shield	Consumable				5				
70	Robotics	Servo Motor Testor	CCPM 3 channel Servo Tester	Consumable				2				

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
71	DIY Kit	Robotics DIY Kit	4 wheel robotic kit	Equipment				4			
72	DIY Kit	Mechanical (Modular) Construction kit	Should be compatible with electronics	Equipment				4			
73	DIY Kit	STEM learning/application Kit	Drone Kit	Equipment				1			
			Aerospace Kit	Equipment				1			
			Automobile Kit	Equipment				1			
			Bio-medical Kit	Equipment				1			
			Agritech Kit	Equipment				1			
			Bio-tech Kit	Equipment				1			
			Water/Sanitation Kit	Equipment				1			
			Other potential STEM application Kit	Equipment				1			
<b>Total</b>											

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**Package 2: Rapid Prototyping Tools**

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
1	Rapid Prototyping Tools	3D Printer Kit and tools	<p>MANDATORY REQUIREMENTS:                      Printer Type : FDM ( Fused Deposition Modeling )                      Minimum Dimensions: 160mm*160mm*160mm                      Build Size or 4 litre build volume.                      Nozzel : 0.3mm to 0.4mm nozzle diameter                      Slicing Softwares should be Free or Open Source                      LCD Screen UI that displays print metrics                      Good quality anti-bacterial fungal cover</p>	Equipment				1			
2	Rapid Prototyping Tools	Dedicated UPS/Power back up with a 2 hour battery back up at least		Equipment				1			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
3	Rapid Prototyping Tools	Filament for 3D printer	Compitable 700/1000 Grams Filament	Consumable				5			
4	Rapid Prototyping Tools	Filament Storage Box		Consumable				5			
5	Rapid Prototyping Tools	Set of Arts & Crafts Accessories – eg- stationary items and basic prototyping material	Cardboard	Consumable				5			
			foam core boards	Consumable				5			
			string	Consumable				50m			
			rubberband	Consumable				100			
			popscicle sticks	Consumable				100			
			wood glue	Consumable				1 btl			
<b>Total</b>											

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**Package 3: Mechanical, Electrical and Measurement tools**

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)	
1	Mechanical Tools	Hacksaw	150mm Junior Hacksaw	Equipment				1				
2	Mechanical Tools	Extra hacksaw blades		Consumable				10				
3	Mechanical Tools	Pliers	External Straight	Equipment				1				
			Nose Circlip Plier	Equipment				1				
			Long Nose Plier	Equipment					1			
			Combination Mini Plier	Equipment					1			
			Wire stripping pliers	Equipment					1			
			Bent nose plier	Equipment					1			
		Needle nose pliers	Equipment					1				
4	Mechanical Tools	Mini Hack Saw	Mini 254mm Hacksaw	Equipment				1				
5	Mechanical Tools	Hacksaw blades Mini		Consumable				10				
6	Mechanical Tools	Ball Pein Hammer	Ball Pein Hammer	Equipment				1				
7	Mechanical Tools	Steel Shaft Claw Hammer	Claw Hammer Steel Shaft	Equipment				1				
8	Mechanical Tools	C-Clamp	Metal Clamp 3 " Inch szie	Equipment				4				
9	Mechanical Tools	Allen Key Set	10 Piece Ring Imperial Allen Hex key	Equipment				1				

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
10	Mechanical Tools	Workstation for drilling		Equipment				1			
11	Mechanical Tools	Spanner Set	12 piece combination Spanner Set	Equipment				1			
12	Mechanical Tools	Ratcheting Screwdriver Set	30 Piece Ratcheting Screwdriver Set	Equipment				1			
13	Mechanical Tools	Vice Normal	Table top vice fitted to the table	Equipment				1			
14	Mechanical Tools	Screw Driver Set	6 Piece Precision Screw Driver Set	Equipment				3			
15	Mechanical Tools	Adjustable Universal Multi Wrench Spanner		Equipment				2			
16	Mechanical Tools	Wire Strippers	Wire Stripper Cutter Plier With Spring - 26x6x20 Cms (LxWxH)	Equipment				5			
17	Mechanical Tools	Screwdriver	Multi-purpose	Equipment				5			
18	Mechanical Tools	Tool Set	Multi-purpose	Equipment				3			
19	Mechanical Tools	Cordless Drill	Cordless Drill with 2 Battery Pack	Equipment				1			



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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
20	Mechanical Tools	Rubber Air Pump Cleaner Dust Blower	Rubber Air Pump Cleaner Dust Blower	Equipment				2			
21	Mechanical Tools	Drill Bit Set	High Quality 13 Pcs HSS Drill Bits Set For for Wood, Iron, Aluminium, Plastic etc	Equipment				1			
22	Mechanical Tools	File set	6 Inches	Equipment				1			
23	Mechanical Tools	Flexible Cutting Mat	A/3 Size With Marked Pattern And Grids (18" X 12")	Equipment				2			
24	Mechanical Tools	Plastic Tool Box with Organizer	For Keeping tools	Equipment				2			
25	Mechanical Tools	PegBoard	Peg board System to mount tools on wall.	Equipment				1			
26	Electric Tools	Hot glue gun	Range in open space (Standard Conditions)	Equipment				2			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
27	Electric Tools	Soldering Kit	Variable Wattage of Soldering Iron: 15-30 watts/230 volts Soldering Iron Temperature Range: 280°C to 450°C De-Soldering Pump, Soldering Flux (Paste) ,DE-soldering Copper Braid (Solder Wick) Soldering Wire: 20/22 AWG soldering Wire with rosin core flux (100 Grams)	Equipment				2			
28	Electric Tools	Adapters	DC power Adapter with 5V, 12V	Consumable				10			
29	Electric Tools	Electric Screw Driver Set		Equipment				1			
30	Electric Tools	Dual Temperature Heat Gun	1800 W Dual Temperature Heat Gun	Equipment				1			
31	Electric Tools	Soldering Helping hand		Equipment				2			

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1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
32	Measurement Tools	Return measuring tape	Return measuring tape 5Mx19mm	Equipment				2			
33	Measurement Tools	Stainless Steel Rule	Stainless Steel 12" / 150 mm Rule	Equipment				5			
34	Measurement Tools	Digital Vernier Caliper	150 mm / 6" Digital Vernier Caliper	Equipment				2			
35	Measurement Tools	Spirit Level	12" Spirit Level	Equipment				1			
36	Measurement Tools	Digital Pen electric Tester	Voltage tester	Equipment				1			
37	Measurement Tools	Digital Multi Meter	<ul style="list-style-type: none"> <li>· Digital Multi Meter Voltage Current Resistance- 7 functions + 19 ranges to cover DC voltage 200mV to 1kV.</li> <li>· AC voltage 200 V - 750 V,</li> <li>· DC current 200 μA - 10 A</li> <li>· Resistance 200 -2 M Ohm and Transistor &amp; diode test.</li> </ul>	Equipment				5			
<b>Total</b>											

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NAME OF FIRM :

**Package 4: Power Supply, Accessories and Safety Equipment**

S.No.	Category	Name	Description	Type	Make	Quality ( ISI Marks / ISO Certified)	Size (if applicable)	Approximated Requirement (Units)	Price Per Unit with installation (in Rupees)	Total Price Per Unit with installation (including GST& other taxes/charges F.O.R.)	Total Amount (in Rupees)
1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
1	Power Supply & accessories	Glue Sticks	11 mm x 200mm Hot Melt Glue Stick	Consumable				50			
2	Power Supply & accessories	Nuts and Bolts and screw	Various Size 20 each	Consumable				20			
3	Power Supply & accessories	Cable Tie	Small , Medium, Big in pack of 100 each	Consumable				3			
4	Power Supply & accessories	Sand Paper	Various Grit-80 4pcs 100 4pcs 120 4pcs	Consumable				12			
5	Power Supply & accessories	Power Strip Adaptors	5 Plug with Safety Fuse Standard Quality Extension, 3m wire	Consumable				10			
6	Power Supply & accessories	Bulb Holders	Regular Hanging Bulb holder	Consumable				10			
7	Power Supply & accessories	Electric Wires	Twisted Red black pair	Consumable				20 meters			
8	Power Supply & accessories	USB TO dc jack cable	USB to DC jack cable for Battery bank	Consumable				10			
9	Safety equipment	Standard first aid kit		Consumable				1			
10	Safety equipment	Fire extinguisher (handy units)	Powder Type Fire Extinguisher 2KG	Consumable				1			
11	Safety equipment	Safety goggles (with/ without LED torch)	Safety Goggles for Chemical Splash and Smoke from Soldering	Consumable				10			

KENDRIYA VIDYALAYA SITAPUR  
LIST OF EQUIPMENT FOR ATL (ATAL TINKERING LABORATORY) QUOTATION

NAME OF FIRM :

**Package 4: Power Supply, Accessories and Safety Equipment**

S.No.	Category	Name	Description	Type	Make	Quality ( ISI Marks / ISO Certified)	Size (if applicable)	Approximated Requirement (Units)	Price Per Unit with installation (in Rupees)	Total Price Per Unit with installation (including GST& other taxes/charges F.O.R.)	Total Amount (in Rupees)
1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
12	Safety equipment	Safety Gloves Pairs	Latex Coating Gloves (Medium Size)	Consumable				3			
13	Safety equipment	Safety Mask	Filtering efficiency ranging 80 percent when tested against 0.3-micron sodium chloride particle	Consumable				10			
<b>Total</b>											

**Grand Total of P1+P2+P3+P4**

KENDRIYA VIDYALAYA SITAPUR  
LIST OF EQUIPMENT FOR ATL (ATAL TINKERING LABORATORY) QUOTATION

NAME OF FIRM :

**Package 5: Furniture & Fixtures**

S.No.	Category	Name	Description	Type	Make	Quality ( ISI Marks / ISO Certified)	Size (If applicable)	Approximated Requirement (Units)	Price Per Unit with installation (in Rupees)	Total Price Per Unit with installation (including GST& other taxes/charges F.O.R.)	Total Amount (in Rupees)
1	2	3	4	5	6	7	8	9	10	11	12 (9*11)
1	Furniture	Work Tables	Wooden				5x3x2.5	4			
2	Furniture	3D Printer Table	Wooden				3x3x2.5	1			
3	Furniture	Work Stations	Wooden				3x2.5x2.5	3			
4	Furniture	Computer Tables	Wooden				3x2x2.5	6			
5	Furniture	Cabinet / Storage	Wooden (Front side - transparent/glass)				1.5x1.5x1.5 (each)	30 (5x6)			
<b>Total</b>											

**Package 6: Maintenance Services**

1	Annual Maintenance Charges on Equipment (This will be applicable after completion of Two years)										
2	Rate per five visits (6 hours per visit, i.e. total 30 hours) of the firm trainers to train the teachers and students.										
<b>Total</b>											

KENDRIYA VIDYALAYA SITAPUR  
LIST OF EQUIPMENT FOR ATL (ATAL TINKERING LABORATORY) QUOTATION

**NAME OF FIRM :**

**Package 7: After sale Services regarding teachers and students training etc.**

1	No. of Free visits of Engineers of the firm in one year to train the teachers and students.	
2	No. of Free course Content License for school use.	
3	Any free online portal of your firm for online Teacher's & Student's training. <b>(Attach details)</b>	
4	No. of free course content license for Visual Programming software.	
5	No. of free Trainings with schedule, by firm Engineers will provide in our school at the time of Equipment Delivery & Installation for Teachers & Students. <b>(Attach the detail of schedule)</b>	
6	Supply of Consumables for Five Years is mandatory. <b>(Give your acceptance by mentioning Yes/No)</b>	
7	Minimum 2 years free warranty on all equipments supplied by the firm is mandatory. <b>(Give your acceptance by mentioning Yes/No)</b>	
8	To provide e-Waste Management by the firm is mandatory. <b>(Give your acceptance by mentioning Yes/No)</b>	
9	Any other free service provided by your firm. <b>(Attach the details)</b>	