



DISTRICT PROJECT OFFICE SAMAGRA SHIKSHA, MALKANGIRI



Tender No 5895

Dated. 01.12.2022

BID NOTICE

Tender Document for the following works:-

1. Set up of Atal Tinkering Lab in 4 Govt. Schools in District of Malkangiri, Odisha.

Bid Document:- Non Transferable

Date of Bid Publishing	01.12.2022
Last Date/Time for Bid Submission	16.12.2022 till 12 noon
Date of Opening of Technical Bid Document	16.12.2022 at 4.00 PM
Date of Financial Bid Opening	16.12.2022 at 5.00 PM
Address for submission of Bid	District Project Coordinator, Samagra Shiksha, Malkangiri, Odisha , 764045
Place of Opening of Bid Address	Collectorate, Malkangiri

TENDER CALL NOTICE

The District Project Coordinator, Samagra Shiksha, Malkangiri invites tender from experienced MSMEs/Firm/Company whose name is listed Niti Aayog vendor list for execution of works as mentioned below. The bidding agency has to bid for following works described herein.

1. Set up Atal Tinkering Lab.
 - A. Supply Equipment of Material
 - B. Provide training to the teachers
 - C. Supply and Installation of Laptop and Projector
 - D. Supply Furniture and Branding

Important Dates:-

Date of Bid Publishing	01.12.2022
Last Date/Time for Bid	16.12.2022
Last Date/Time for Bid submission	16.12.2022 till 12 Noon
Date of opening of Technical Bid Document	16.12.2022 at 4.00 PM
Date of Financial Bid Opening	16.12.2022 at 5.00 PM

The Detailed Tender can be downloaded from official website www.malkangiri.nic.in

01.12.2022
District Project Coordinator,
Samagra Shiksha, Malkangiri



Part- 1:- Invitation for Bids

Sealed Bids in two separate covers (Technical bid and Financial Bid) are invited by District Project Coordinator, Samagra Shiksha, Malkangiri, Odisha for execution of Setup of Atal Tinkering Lab with Training to school teachers in the District of Malkangiri.

The Bidders to download the Bid Document directly from the website www.malkangiri.nic.in and the Bid cost as mentioned in Separate Quotation should be enclosed along with the Technical Bid.

In case of any bid amendment and clarification, responsibility lies with the bidders to collect the same from the website before last date of bid document and the DPC, SS shall have no responsibility for any delay/omission on part of the bidders.

Price of bidding document	Rs.10,000.00 (Non- refundable)
Place of Opening of Bid Address	Collectorate, Malkangiri
Address for communication	District Project Coordinator, Samagra Shiksha, Malkangiri, Odisha , 764045


District Project Coordinator
Samagra Shiksha, Malkangiri



Part 2:- General Terms and Conditions

TENDER CALL NOTICE

1.0 District Project Coordinator, Samagra Shiksha Malkangiri invites Tenders from reputed Firms/Company with required Valid GST number as part of a joint venture / consortium for carrying out 4 Tinkering Lab Setup in the jurisdiction of Malkangiri. The bidder must fulfill all the qualification requirements as specified below.

2.0 Technical Specification:

Technical Specifications/ scope of work of the following works are given below:-

Technical Specification for the Setup of Tinkering Lab In 4 School in Malkangiri district of Odisha.

Sr No	Scope of Work	Details
1	Supply Equipment of List	As per the Annex 01
2	Teacher Empowerment	20 days Training in year
3	Supply of Laptop	As per Annex 02
4	Supply of Projector	As per Annex 03
5	Supply of Furniture and Branding	As per Annex 04

3.0 Eligibility criteria for Participating in bids

For details regarding the submission of documents refer Sec. 3 (Technical Bid)

1. Must have work experience with Govt school/JNVs/KVs/Army Public school and must have done such projects in at least 100 schools.
2. Vendor name must be in Niti Aayog's Published vendor list.
3. Vendor should have at least 4+ star rating on GeM portal.
4. Vendor Must be Registered As OEM On Gem Portal.
5. The Vendors Must have reputed ISO Certification letter.
6. Vendor's annual turn over must be more than 1 Cr.

4.0 Terms and Conditions for Participating in bids:-

1. It is mandatory for all vendors to provide installation and equipment training to the schools (Principal/ATL Incharge/Faculty members) on handling and usage of equipment, after the delivery of the equipment, at no additional charge.
2. Vendor has to provide 1 year of comprehensive warranty (including a 3D printer) at no additional charge.
3. Vendor should clearly indicate the timeline for delivery of packages, installation, and training. The Delivery should be done in 60 days of receipt of work order.
4. The Vendor should maintain the supply chain of consumables and other items for 5 years.
5. The Vendor should provide 2-years of comprehensive AMC, wherever applicable, and clearly indicate the terms and conditions of the same.
6. The vendor has to indicate both itemized prices and package-wise pricing and provide detailed specifications and brand names of all the equipment.
7. The vendor should have a mechanism for the proper disposal of e-waste.
8. In case the vendors are the third-party vendors or channel partners, they should ensure timely availability of all the equipment and associated services to the school, to avoid any delay or inconvenience to the school.
9. Vendor has to be OEM assessed by QCI or in the case of the Reseller, an OEM authorization certificate will be required
10. Vendor should have at least a 4+ star rating On Gem portal.
11. Reseller/OEM must have to provide the complete ATL Package E-Content for Any Time Anywhere Learning
12. Vendors Should have Online Video Tutorials Platform for Students
13. Vendor should have a representative and trainer for school staff training.

5. Selection Process

Two Bid System (Technical & Financial) from reputed agencies that have experience in supply & Execution of similar work. RFP can be submitted by hand or by Speed post / Registered post. If it is sent by post, Committee will not be responsible for delay in postal transit. RFP received after due date and time will be rejected.

5.1 Important dates for RFP

1. Last date of submission of sealed tender documents: On 16/12/2022 till 12.00 hrs at the office of District Project Coordinator, Samagra Shiksha, Malkangiri Odisha, India.
2. Opening of technical bid: On 16/12/2022 at 1600 hours in DPC Office in front of tender Committee.
3. On the date of opening, Only Technical Bid will be opened. Financial Bid shall be opened subsequently on same day only of those bidders, whose technical bid qualifies as per the laid norms of tender.

5.2 Procedure

1. The Bidders should submit the proposal in two parts:
 - (a) Technical Bid (Envelop Marked 'A') refer Sec. 3 (Packet I) **Technical Bid**
 - (b) Financial Bid (Envelop Marked 'B') refer Annexure 5 **Financial Bid**

While the price of all items are to be filled (as mentioned in Annexures 1,2,3 and 4), the bid mentioned in Annexure 5 mentioning the final total price of all the components would be considered for finalization.

2. Financial part should contain the Financial Bid inclusive of all admissible comprehensive taxes, duties and levies, transportation, installation, operation etc. The details of the financial bid should also be included for better appreciation of the bid.

3. These two parts should be submitted in separate sealed and super scribed envelope

4. Both the envelopes should then be sealed in a third envelope marked as “RFP for Selection of Agency for Supply equipment and Installation of Atal Tinkering lab at schools in Malkangiri District of Odisha”

5. All the Bidders should send the RFP at the following address:

District Project Coordinator, Samagra Shiksha
Malkangiri, Odisha -764045

5.3. Technical Bid (Packet-I-Envelop 'A')

1. Bidder Quality Certification - Firm should have valid ISO: 9001:2015 certificate as on date of submission. Copies of Valid certificates to be submitted.
2. Turnover - Average annual turnover of the bidder during last 3 financial years ending 2021-22 (i.e. 2019-20, 2020-21 & 2021-22) should not be less than be Rs. 1 Crore. Audited balance sheet / CA certificates to be submitted.
3. Technical Capability - The bidder must have setup/implemented minimum 100 numbers of Atal Tinkering LABs in Schools under State Govt./ Central Govt. in last three years, ending 31st March, 2022. Copy of the Work Order/Completion Certificates certified by competent authority.
4. Niti Ayog's Vendor List – The name of the firm should be in Niti Ayog's published vendor list. Self attested printed copy of the relevant page of Niti Ayog's published vendor list to be submitted.
5. Blacklisting – The bidder should not have been blacklisted by any Government body. An affidavit (notarised non judicial stamp of Rs. 100) mentioning this should be submitted.
6. OEM Authorization – The firm should have OEM authorization/Reseller Certificate.
7. GeM Portal – Firm should have registered on GeM portal and should have at least 4+ star rating on GeM Portal. A self attested copy of the seller's page showing star rating to be submitted.
8. EMD - The bidder must have submitted the EMD of Rs. 1,00,000/- (Rupees One Lakh only) in the shape of Bank Guarantee/DD from any Nationalized / Scheduled Commercial Bank in favor of DPC, Samagra Shiksha payable at Malkangiri.

5.4 Financial Bid (Packet – II-Marked Envelop ‘B’)

1. The rates should be quoted separately for destination. Refer Annexures 1,2,3 and 4 for product list and quantity and fill the final price in Annexure 5.

While it is encouraged that the price of all items are to be filled (as mentioned in Annexures 1,2,3 and 4), the final bid mentioned in Annexure 5 mentioning the final total price of all the components would be considered for finalization.

2. The rates should be distinctly quoted in figures. Price should be quoted inclusive of all admissible taxes, transportation costs installation any other Cost.

3. The L1 would be decided on the basis of the final bid mentioned in Annexure 5.

6. Evaluation Process

1. Evaluation Committee constituted by the Administration shall evaluate the responses to the RFP and all supporting documents / documentary evidence. Inability to submit requisite supporting documents / documentary evidence, may lead to rejection.

2. The financial bid of only those bidders shall be opened who have been found to be technically eligible. The financial bid shall be opened in presence of representatives of technically eligible bidders, who may like to be present.

3. The decision of Evaluation Committee in the evaluation of the responses to the RFP shall be final. No correspondence will be entertained outside the process of evaluation with the Committee.

4. Evaluation Committee may ask for meetings and presentations with the Bidders and/or seek clarifications on their proposals.

5. Evaluation Committee reserves the right to reject any or all proposals on the basis of any deviations.

6. Each of the responses shall be evaluated as per the criteria and requirements specified in this RFP.

7. The Agency/Bidder with lowest qualifying financial bid (L1) will awarded.

8. After the Bid Awarded to the L1 Firm, Firm Needs to accept the order within 10 days.

7. Payment Terms and Conditions:

The Agency/ Contractor shall be entitled to payment as follows:

1. 30 % of the Contract value shall be paid in advance after issuing the work order.

2. 50% of the Contract value shall be paid against supply and delivery of goods in full and in good condition as certified by the consignee and officials after the submission of following documents:

i. Original Commercial Invoice raised from the state of Orissa for the supply made in triplicate (1+2).

ii. Copy of duly raised delivery challan / Transportation challan/ lorry receipt.

2. 12% of the Contract value after Training to User Department and Sign-off from the school. Installation certificate and warranty certificate to be submitted.

3. Rest 8% of the Contract value - Day-to-Day Operation Maintenance of Hardware Equipment and Deployed Manpower Support Services for entire two years. 1% of the contract value x 8 Nos of QGRs Payable on Quarterly Basis, i.e. 1% after every quarter.
4. Photographs of all the equipment (Materials)at destination with signature and seal of consignee & officials. This record should be kept in the office of consignee for verification

7. General Clarifications

1. Bid Security/Earnest Money Deposit (EMD)

The bidder must have submitted the EMD of Rs. 1,00,000/- (Rupees One Lakh only) in the shape of Bank Guarantee/Account Payee Demand Draft from any Nationalized / Scheduled Commercial Bank in favor of DPC, SS payable at Malkangiri. The EMD should be valid for a minimum period of 90 days from the last date of submission of the Bid.

2. Confidentiality

- I. Notwithstanding anything contained in this bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information, a procuring entity shall not disclose any information if such disclosure, in its opinion, is likely to: -
 - (a) Impede enforcement of any law;
 - (b) Affect the security or strategic interests of India;
 - (c) Affect the intellectual property rights or legitimate commercial interests of bidders;
 - (d) Affect the legitimate commercial interests of the procuring entity in situations that may include when the procurement relates to a project in which the procuring entity is to make a competitive bid, or the intellectual property rights of the procuring entity.
- II. The procuring entity shall treat all communications with bidders related to the procurement process in such manner as to avoid their disclosure to competing bidders or to any other person not authorized to have access to such information.
- III. The procuring entity may impose on bidders and sub-contractors, if there are any for fulfilling the terms of the procurement contract, conditions aimed at protecting information, the disclosure of which violates (I) above.
- IV. In addition to the restrictions specified above, the procuring entity, while procuring a subject matter of such nature which requires the procuring entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.

3. Exclusion of Bids / Disqualification

1. A procuring entity shall exclude/ disqualify a Bid, if: -
 - i. The information submitted, concerning the qualifications of the bidder, was false or constituted a misrepresentation; or
 - ii. The information submitted, concerning the qualifications of the bidder, was materially inaccurate or incomplete; and

iii. The bidder is not qualified as per pre-qualification/ eligibility criteria mentioned in the bidding document;

iv. The Bid materially departs from the requirements specified in the bidding document or it contains false information;

v. the bidder, submitting the Bid, his agent or any one acting on his behalf, gave or agreed to give, to any officer or employee of the procuring entity or other governmental authority a gratification in any form, or any other thing of value, so as to unduly influence the procurement process;

vi. a bidder, in the opinion of the procuring entity, has a conflict of interest materially affecting fair competition.

2. Bid shall be excluded/ disqualified as soon as the cause for its exclusion / disqualification is discovered.

3. Every decision of a procuring entity to exclude a Bid shall be for reasons to be recorded in writing and shall be: -

i. communicated to the concerned bidder in writing

ii. Published on the State Public Procurement Portal, if applicable.

4. Acceptance of the successful Bid and award of Project

1. Award Criteria

DPC,SS will award the Project to the successful bidder whose proposal has been determined to be substantially responsive and has been determined as the most responsive bids as per the process outlined above.

2. Right to Accept Any Proposal and to Reject Any or All Proposal(s)

DPC, SS reserves the right to accept or reject any proposal, and to annul the tendering process / Public procurement process and reject all proposals at any time prior to 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 grounds for such action.

3. Purchaser's Procurement Rights

Without incurring any liability, whatsoever to the affected bidder or bidders, the Purchaser reserves the right to:

i. Amend, modify, or cancel this tender and to reject any or all proposals without assigning any reason.

ii. Change any of the scheduled dates stated in this tender.

iii. Reject proposals that fail to meet the tender requirements.

iv. Increase or decrease the quantity of the hardware items

v. Remove any of the item at the time of placement of order.

vi. Increase or decrease no. of resources supplied under this project

- vii. Should the Purchaser be unsuccessful in negotiating a contract with the Agency, the Purchaser will begin contract negotiations with the next best value bidder in order to serve the best interest
- viii. Make typographical correction or correct computational errors to proposals
- ix. Request bidders to clarify their proposal.

4. Warranty

- a) The bidder will provide the warranty support for the period of one year from the date of Final Acceptance Test (FAT)
- b) The bidder shall either repair or replace the defective goods or parts thereof with brand new genuine/ authentic ones having similar or higher specifications from the respective OEM as per the time period specified.

5. Validity of Bid

The bid shall remain valid for a period of 180 days from the last date of bid submission.

6. Training & Handholding

Key training requirements of the Bidder are listed below: -

- i. Conduct training need assessment and prepare a detailed training strategy. Such strategy shall provide training set-up details, training approach and methodology, training plan etc.
- ii. Training Materials, Applications, User Manual and Completion Reports.
- iii. Bear the expenses towards training, quoted as part of the Financial Proposal submitted.
- iv. Provide hands-on training on the hardware, software application such that users are conversant with the functionalities, features and processes built in the solution.
- v. Submit Attendance Record of the attendees (in Hard copy) along with the session plan for the day.
- vi. Deploy adequate training resources.
- vii. Deployed trainers should be fluent in speaking Hindi, English & Odia.
- viii. The Bidder shall responsible for training and handholding of the school teachers/headmaster so they can further train the other teachers accordingly.
- ix. The Bidder has to develop a training manual for each of the TINKERING LAB activity for the teachers which should act as a ready reckoner for reference by the teachers at school level.
- x. Vendors has to Provide e content of curriculum
- xi. Firm should submit the course curriculum for schools
- xii. Any kind of handholding, orientation, training support, as needed by the intended users. It is planned that all such sessions shall be conducted at the school level however the IT Coordinators provided by the Vendors should be able, willing and flexible to visit any government school if required.

7. Instruction to Bidders

1. General

- a) While every effort has been made to provide comprehensive and accurate background information and requirements and specifications. Bidders must form their own conclusions about the solution needed to meet the requirements. Bidders and recipients of this RFP may consult their own legal advisers with regard to this RFP.
- b) Each page of the bidding document shall be kept with the office seal and signature by the authorized representative from the Bidder.
- c) All information supplied by Bidders may be treated as contractually binding on the Bidders, on successful award of the assignment by DPC, SS on the basis of this RFP.
- d) No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of the DPC, SS. Any notification of preferred bidder status by DPC, SS shall not give rise to any enforceable rights by the Bidder. DPC, SS may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of the DPC, SS.
- e) This RFP supersedes and replaces any previous public documentation & communications, and Bidders should place no reliance on such communications.
- f) Change request of any kind after opening of the bid and award of the work shall not be entertained.
- g) No further communication of any shortfall of bidding documents shall be considered after submission of bids through online.

8. Recoveries from Supplier/ Agency

- 1) Recovery of liquidated damages, short supply, breakage, rejected articles shall be made ordinarily from bills
- 2) DPC, SS shall withhold amount to the extent of short supply, broken/ damaged or for rejected articles unless these are replaced satisfactorily
- 3) The balance, if any, shall be demanded from the Supplier/ Agency and when recovery is not possible, DPC, SS shall take recourse to law in force.

9. Taxes & Duties

- 1) The GST if applicable shall be deducted at source.
- 2) For goods/Equipment supplied from outside India, the successful/ Agency shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the country.
- 3) For goods/Equipment supplied from within India, the successful Agency shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

- 4) If any tax exemptions, reductions, allowances or privileges may be available to the successful Agency in India, DPC, SS shall use its best efforts to enable the successful Agency to benefit from any such tax savings to the maximum allowable extent.

10. Packing and Documents

- 1) The Agency shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Purchase Order. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme atmospheric temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit.
- 2) The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Project, including additional requirements, if any, specified in the Purchase Order, and in any other instructions ordered by DPC. SS.

11 Transportation

The Agency shall be responsible for transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at project locations. In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good such loss and shortage found at the checking/ inspection of the material by the consignee. No extra cost on such account shall be admissible.

12 Termination

DPC, SS may at any time terminate the Purchase Order by giving written notice to the Bidder if the Bidder becomes bankrupt or otherwise insolvent. In this event, termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to DPC, SS. DPC, SS reserves the right to cancel the Purchase Order in the event of happening one or more of the following Conditions:

- a) Failure of the successful bidder to accept the contract.
- b) Delay in delivery beyond the specified period.
- c) In addition to the cancellation of the contract, DPC, SS reserves the right to appropriate the damages through encashment of Bid Security given by the Bidder.
- d) DPC, SS would not be liable to pay any damages to the Agency in cases comprising termination for default.

13. Settlement of Disputes

1. General: If any dispute arises between the supplier/ Agency and DPC, SS during the execution of a Project that should be amicably settled by mutual discussions. However,

if the dispute is not settled by mutual discussions, a written representation will be obtained from the supplier/ Agency on the points of dispute. The representation so received shall be examined by the concerned Committee which sanctioned the tender. The Procurement Committee may take legal advice of a counsel and then examine the representation. The supplier/ Agency will also be given an opportunity of being heard. The Committee will take a decision on the representation and convey it in writing to the supplier/ Agency.

2. Standing Committee for Settlement of Disputes: If a question, difference or objection arises in connection with or out of the Order issued or the meaning of operation of any part, thereof or the rights, duties or liabilities of either party have not been settled by mutual discussions or the decision of tender sanctioning Procurement Committee, it shall be referred to the empowered standing committee for decision.

14. Penalty

Penalty will be charged @ 0.5% of the Project value per week subject to maximum of 5% of total order value. in case of delayed in supply of stipulated time period.

Annexure- 1

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

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
1	Arduino	Arduino UNO or Equivalent	Atmega 328P-8Bit AVR family Microcontroller,Equivalent or better. Operative voltage 5V,Digital I/O Pins 14,PWM Digital I/O Pins:6 Case cell encloser.Compatible with USB Cable A to B	30		
2	Arduino	Arduino Nano	"Atmega 328P-8Bit AVR family Microcontroller,Equivalent or better. Operative voltage 5V,Digital I/O Pins 14. Analog input pins 8	10		
3	Arduino Mega	Arduino Mega	Atmega 2560P- 8 Bit AVR family Microcontroller,Equivalent or better. Operative voltage 5V.Digital I/O Pins 54, Analog input pins I 16 Case cell encloser..Compatible with USB Cable A to B	10		
4	RG	Artificial Intellegance kit	Raspberry pi3 model B+, Including HDMI to VGA -1 cable, Class 10A 32 GB memory card, HDMI To VGA Adapter Case cell Encloser	5		
5	GL12	Breadboards & Mini Breadboard	Solderless 400 points	30		
6			Solderless 800 Points	20		
7			Self-Adhesive Proto shield	20		
8	White Label	General purpose Soldering Board	FR2 A Grade Material (140*90mm)	30		
9			FR2 A Grade Material (80*55mm)	30		
10			Female Berg Strip 40 Pins Single Row	30		
11			Male Berg Strip 40 Pins Single Row	30		
12	Genius	16x2 LDC display with I2C	Dot matrix LCD display with 16 characters x 2 lines	20		
13	Auslese	USB Cable Set	USB Cable Set (A to B)	10		
14	Arduino compatible	USB Cable Set	Mini USB Cable Set	10		

15		9 Volt battery, multiple resistors and capacitors for electronics Project various Size	9V Battery Rechargeable battery Rechargeable Battery charger--2x	10		
16	EW		Resistor Kit (Different Value)	20		
17			Capacitor Kit (Different value)	20		
18	Fairchild	Line Voltage Regulator	7805	10		
19			7812	10		
20			7809	10		

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

SN	Product Make	Product Name	Description	Qty	Unit Price	Tot
21	Arduino compatible	Water Pump Module	DC 12V,4W,Submersible water Pump	4		
22	Arduino compatible	Piezoelectric Plate	Normal copper based 4cm Diameter	30		
23	Arduino compatible	8*8 LED Matrix Module	Max 7219 Dot LED Matrix Module MCU control LED Display Module	10		
24	Arduino compatible	Bluetooth	HC 05 working voltage 5 Volt	15		
25	Arduino compatible	7 Segment LED Display	LED 4-digit Display Module w/t clock point /4 pin DuPont line for Arduino.	20		
26	Arduino compatible	GSM	SIM 800LGers Transfer board micro Sim core Ttl port module for Arduino			
27	Arduino compatible	GPS	GY NEO6MV2 New GPS Module	4		
28	Arduino compatible	Laser Diode	650Nm, 6mm, 5V DC, 5mw mini Laser dot diode module	10		
29	Arduino compatible	LDR Module	Photosensitive LDR light sensor module	30		
30	Arduino compatible	Keypad	Universal 16 Key switch keypad	10		
	Arduino compatible	Joy Stick	Joy stick module for Arduino	10		

31					
32	Arduino compatible	Active Buzzer	Small 5 Volt	40	
33	Arduino compatible		Big 5 Volt	40	
34	Texas	Motor Driver	L293D Moter Driver module	10	
35	Arduino compatible	Sound Play Back Module	ISD 1820V Oice Recording Module or equivalent	10	
36	Arduino compatible	DC Plastic Gear motor with wheel	12V,150 RPM,Side shaft,Battery operated	40	
37	Arduino compatible	NodeMCU	ESP 8266 I2C,1 Wire,Plug and Play	6	
38	Arduino compatible	Wemos D1 R2	WeMos D1 R2 with Wi-Fi,ESP 8266	6	
39	Arduino compatible	Vibrating Motor	Vibrating Motor Opertating Voltage 1.5 to 3V	20	

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

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
40	Arduino compatible	Alligator Connectors	Multi Colour Alligator Connectors	200		
41	Battery compatible	Battery clips with DC Jack	9 volt battery clips with DC Jack	40		
42	White Label	Hook-up Wires	Red & Black set 100 Meters each	4		
43	White Label	Jumper Cable	Male - Male	1000		
44			Male-Female	600		
45			Female -Female	400		
46	White Label	RGB LEDs	Regular 5mm 3-5 volt Range	400		
47	White Label	LEDs (Red)	Regular 5mm 3-5 volt Range	1000		
48	White Label	LEDs (Green)	Regular 5mm 3-5 volt Range	1000		
49	White Label	LEDs (Blue)	Regular 5mm 3-5 volt Range	1000		
50	White Label	LED(yellow)	Regular 5mm 3-5 volt Range	1000		
51	White Label	LEDs (White)	Regular 5mm 3-5 volt Range	1000		
52	Texas	555 Timer IC	555 Timer IC 4.5V to 16 Volt	30		
53	Taxes	Diode Kit	1N4007-25 1N 4006-25 Zener Diode 4.6V-25 Zener diode 2.5V-25	2		
54	Taxes	Transistor Kit	BC-547-25 BC 557-25	1		
55	ATMEL	Atmega 16U2	8 bit Microcontroller individual IC (DIP)	10		
56	White Label	Push Button Switch	Tactile Switch Micro - Push Button Toggle switch	20 0 10 0		
57	Arduino compatible	Capacitive touch module	MPR 121 with I2C Voltage range 2.7V to 5.5V.	20		
58	Arduino compatible	Capacitive Touch Switch Module	Digital Capacitive Touch Switch Module TTP223B	10		

59	Arduino compatible	IR Sensors Obstacle	LM 393 Detection Distance 2-30 C.M Detection angle 30-40 Degree	20		
60	Arduino compatible	Triple Axis Magnetometer	3 Axis Magneto Resistive Sensors I2C Digital Interface Integrated 12 bit ADC	10		
61	Arduino compatible	Humidity Sensor	Operating range: 20 - 95 % RH Temperature: 0 - 60 Celsius Power supply: 1.5V AC (Max sine) Operating frequency: 500 -2KHZ	10		

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

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
62	Grove	MQ Series	MQ-2 Smoke detection	3		
63			MQ-3 Alcohol-Ethanol sensor	3		
64			MQ-4 Methane Natural Gas Sensor	3		
65			MQ-5 Methane Liquefied Gas Sensor	3		
66			MQ-6 Liquefied Petroleum Gas Sensor	3		
67			MQ-7 High Sensitivity CO Carbon Monoxide Sensor Detector	3		
68			MQ-8 Hydrogen Gas Sensor	3		
69			MQ-135 Air Quality Sensor (Smoke Fast response Stable and long life Simple drive circuit)	3		
70	Arduino compatible	IR (transmitter) receiver	TSOP 1738 Switching rate – 38 KHz	10		
71	Arduino compatible	Ultrasonic Sensor Module HC-SR-04 or compatible	Power supply Quiescent current Working current Effectual angle Ranging distance Resolution Working angle & dimension	40		
72	Grove	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	10		
73	Grove	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	20		
74	Arduino compatible	Pulse Rate heart sensor	Pulse Rate Sensor Finger Based wore on the finger or earlobe Working voltage 3-5V	4		
75	Arduino compatible	Relay Module	5V 10A 2 Channel Relay Module	20		
76	Arduino compatible	Relay Module	5,10 A,-1 Channel Relay module	20		
77	Arduino compatible	Big Sound Microphone Module	Large Electret Capsule Sound Module	10		

78	Arduino compatible	Soil Moisture Sensor Module	FC-28with LM 293 Comparator Operating Voltage 3.3V to 5 Volt	6		
79	Arduino compatible	Touch Sensor	Capacitive Touch Sensor Module TTP 22X series Operating Voltage 2.4V to 5.5V	6		

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

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
80	Arduino compatible	Metal touch sensor module	KY-036 or Equivalent Metal Touch sensor Module	6		
81	Arduino compatible	Rain Drop Sensor	Rain Sensitive, Rain Drop Detection Sensor Module	6		
82	Arduino compatible	Flex Sensor	Flex Sensor 2.2 Inches	6		
83	Arduino compatible	Temperature Sensor	Temperature Sensor Lm35	6		
84	Arduino compatible	Temperature sensor and Humidity sensor Module	DTH 11 Voltage range 3v-5V	40		
85	Arduino compatible	Force Pressure Sensor	Force sensitive resistor with a square, 1.75" x 1.5" sensing area	4		
86	Arduino compatible	Colour Recognition Sensor	TCS3200 Colour Recognition Sensor	4		
87	Arduino compatible	Water Flow Sensor	Arduino Compatible water flow sensor 5V Dc Input	4		
88	Arduino compatible	Sound Sensor	Sound Sensor Module, Microphones module	10		
89	Arduino compatible	IR Sensors Array for Line Following	IR Sensors Array for Line Following	10		
90	Ambrence	10000 mAh 5 volt Power Bank	10000 mAh 5 volt Power Bank	5		
91	Arduino compatible	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	10		
92	Grove	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	10		

93	Adafruit	Stepper Motor with Driver board	28BY J-48 ULN2003 5V Stepper motor+ULN2003 Driver Board	10		
94	White Label	DC Motor	12V, DC gear 150 RPM	20		

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

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
95	Arduino compatible	Servo motors	Position Servo Angle based Metal Gear	10		
96			Small Servo Metal Gear	10		
97			Continuous Metal Gear Servo 360	10		
98			Small Servo Plastic Gear	40		
99	Arduino compatible	150 RPM BO Motor	150 RPM BO motor	10		
100	Arduino compatible	L298P Motor Driver	L298P Motor Driver shield or Relative driver shield	10		
101	Arduino compatible	Servo motor Tester	CCPM 3 channel servo motor tester	4		
102	RG	Robotics DIY KIT	4 wheel robotics kit 4 Motor,1 Chesis Set,1X battery Pack,4X wheel	3		
103	Pro Asia	Mechanical (modular) Construction kit	Compatible with electronics (Consists of 390+ constructional elements that can be used with Arduino. BO motor with wheel etc)	5		
104	Vision	STEM Learning Application Kit	Drone kit consist with 7. Outer blade frame 8. Additio nal blade 3.Lanching stand 5.USB Battery Charger 6.User manual	1		
105	Aligator	STEM Learning Application Kit	Aerospace Kit (balsa wood kits) 4. 1X propeller based kit 5. 1X Aeromodelling kit 6. 1X Chuck Glider kit	1		
106	Universal Lab	STEM Learning Application Kit	Automobile Kit Steam Engine Kit	1		

107	Dwe gard	STEM Learning Application Kit	Bio-Medical Kit 2.Blood Group determination kit 3.PH Paper testing Kit 4.Blood Pressure Measuring Kit	1		
108	Dwe gard	STEM Learning Application Kit	Agritech Kit 1. Soil testing kit	1		

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

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
109	Dwe gard	STEM Learning Application Kit	Bio-tech Kit E. Fingertip pulse oximeter F. Glucose testing kit G. Blood Pressure Measuring Kit H. Lactometer for Milk Adultration	1		
110	Dwe gard	STEM Learning Application Kit	Water/Sanitation Kit Water hardness testing kit	1		
111	Smartivity	STEM Learning Application Kit	Other potential STEM application Kit 1X DIY Gravity Kit 1X DIY Hydraulics arm kit	1		

Package 2: Rapid Prototyping Tools

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
1	QD-X smart	3D Printer	Printer Type: FDM (Fused Deposition Modelling) Minimum Dimensions: 170mm*160mm*150mm (4.80 build volume) Build Size(4 litre build volume). Nozzle: 0.3mm to 0.4mm. Printer Accessories:- 1X 8GB Memory card,1X Power cable,1X Spare Nozal,1X Cutter,1X Plier,1X 3M Masking tape,1X Spanner	1		
2	Microtek	UPS	1KVA UPS	1		
3	Wol 3D	Filament for 3D printer	Compatible 700/1000 Grams Filament	5		
4	White Label	Filament Storage Box		5		
5	White Label	Set of Arts & Crafts Accessories - e.g.- stationary items and basic prototyping material	Cardboard	5		
			Foam Core board	5		
			String Only (Mtr)	50		
			Rubber band	100		
			Popsicle Sticks	100		
			Wood Glue Bottle	1		

Package 3: Mechanical, Electrical and Measurement tools

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
1	Stanley	Hacksaw Frame	12 Inches	1		
2	Tapariya	Extra Hacksaw Blade	12 inches	10		
3	Stanley	Mini Hack Saw frame	6 Inches	1		
4	Tapariya/Stanley	Hacksaw Blade Mini	6 inches	10		
5	Tapariya/Stanley	Pliers	External Straight	1		
6			Nose Circlip Plier	1		
7			Long Nose Plier	1		
8			Combination Mini Plier	1		
9			Wire stripping pliers	1		
10			Bent nose plier	1		
11			Needle nose pliers	1		
	Stanley/Tapariya/Equivalent	Tweezer set	6 pic non magnetic tweezer set (6 Inches)	2		
12	Stanley	Ball Pein Hammer	Ball Pein Hammer	1		
13	Stanley	Steel Shaft Claw Hammer	Claw Hammer Steel shaft	1		
14	Tapariya/Stanley	C-Clamp	Metal clamp 3inch size	4		
15	Tapariya/Stanley	Allen Key Set	10 piece ring Imperial allen hex Key	1		
16	Bosch	Drill Machine set	Drill Machine set with Accessories Hammer/screw and clock wise and Anti clock wise 500Watt	1		
17	White label	Workstation for drilling	Drill Press,Drill Holder and Rotary tool,Compatible with Drill Machine	1		
18	Stanley	Spanner Set	12 piece combination Spanner Set	1		
19	JCB	Vice Normal	Table top vice fitted to the table	1		
20	Tapariya/Stanley	Precision Screw Driver Set	6 Piece Precision Screw Driver Set	2		
21	Tapariya	Adjustable universal Multi Wrench	2 size (8 inches, 10 inches)	2		

		Spanner			
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Package 3: Mechanical, Electrical and Measurement tools

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
22	Multitec	Wire Strippers	Wire Stripper Cutter Plier With Spring -26x6x20 Cms (L*W*H)	5		
23	Jackley	Screwdriver	40 Pc Multi-purposescrew driver	3		
24	Black & Decker	Cordless Drill	Cordless Drill with 2 Battery pack	1		
25	Stanley	Air Blower	500W or more Variable speed blower	1		
26	High Speed Steel	Drill Bit Set	High Quality 13 pcs, Hss Drill bits set for wood, iron, Aluminium, Plastic etc.	1		
27	Stanley/Tapariya/Equivalent	File Set	6 Inches (6 piece)	1		
28	White label	Mini File set	6 pic mini file set (3 inch)	1		
29	White Label	Flexible cutting Mat	A3 size with Marked Pattern and Grids (18" x 12")	1		
30	Stanley	Plastics tool Box with Organizer	For Keeping tools Separate.	2		
31	White Label	Peg Board	Peg Board system to mount tools on wall (3X2 feet)	2		
32	Stanley	Hot Glue Gun	Range in open space (Standard Conditions) 230 to 280 Degree celsius	4		
33	MetroQ	Oscilloscope	50Hz To 100 Hz Single Channel,10MHz Wide measurement High sensitivity and trigger lock	1		
34	Stanley	Soldering Kit	60 Wattage of Soldering Iron: 15-30 watts/ 230 volts Soldering Iron Temperature Range: 280°C to 450°C, De-soldering Pump 4X Soldering Flux (paste), 4X De-soldering Copper Braid (solder wick), 4X Soldering wire: 20/22AWG soldering wire with rosin core flux 100 grams) 4X	4		
35	RG	Adapters	DC power Adapter with -12V 2Amp - 5pc	10		

Package 3: Mechanical, Electrical and Measurement tools

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
36	RG	Adapters	12V 2 amp	10		
37	Black & Decker	Electric Screw Driver Set	Electric screw Driver set includes battery, and Screw set	1		
38	Siron	Dual temp heat Gun	1800 W Dual Temperature Heat Gun	1		
39	White Label	Soldering helping hand	Adjustable Crocodile Holding Clamps/Clip, Soldering Iron Holder,LED Magnifying lens	4		
40	Bosch	Return measuring tape	Return measuring tape 5Mx19mm	2		
41	Tapariya/Equivalent	Stainless Steel	Stainless Steel 12"/ 150 mm Rule	5		
42	Tapariya/Equivalent	Digital Vernier Calliper	150 mm / 6" Digital Vernier Calliper	2		
43	Tapariya/Equivalent	Spirit Level	12" Spirit Level	1		
44	Tapariya	Digital Pen electric Tester	Voltage tester	1		
45	Mastech	Digital Multi Meter	Digital Multi Meter Voltage Current Resistance-7 functions + 19 ranges to cover DC voltage 200mV to 1kV, AC voltage 200 V - 750 V, DC current 200 μ A - 10 A, Resistance 200 -2 M Ohm and Transistor & diode test	5		
46	Foldscope	Microscope	DIY Microscope (Paper microscope)	5		
47	USHA	Sewing machine	The battery operated,less power to operate, The best mini handheld sewing machine comes with compact and attractive design	1		
48	celestron	Telescope	Telescope 50 mm refractor telescope,Metal table top tripod,2 eyepieces,Barlow lens,Hard case	1		



Package 4: Power Supply & Accessories and Safety Equipment

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
1	Gule Gun Compatible	Glue Stick	11mm x 200mm hot melt Glue stick	100		
2	3M	Nuts, Bolts, and Screw	various size 20 each (20 packet)	40		
3	Generic	Cable tie	Small (pack of 100)	10		
			Medium (pack of 100)	10		
			Big (pack of 100)	10		
4	White Label	Sand paper	Various Grit-80	10		
			Various Grit-100	10		
			Various Grit- 120	10		
5	Anchor/Bajaj	Power Strips Adapters	5 Plug with safety fuse standard quality extension 3M wire	5		
6	White Label	Bulb Holders	Regular Hanging Bulb holder	10		
7	Havels	Electric wires	Twisted red black pair	20		
8	White Label	USB to DC Jack	USB to DC Jack for battery bank	10		
9	Dr lab	Standard first aid kit		2		
10	White label	Fire extinguisher (handy units)	Powder type fire extinguisher 2kg	2		
11	White label	Safety goggles (without LED torch)	safety goggles for chemical splash and smoke from soldering	30		
12	White label	Safety Gloves Pairs	Latex coating gloves (medium size)	10		
13	White label	Safety Mask	Filtering efficiency ranging 80 percent when tested against 0.3 micron sodium chloride particle.	20		

Annexure- 2

Supply of Laptop

SN	Product Make	Product Name	Description	Qty	Unit Price	Total
1	Laptop*	HP/ Microsoft/ Dell	14", core i5, 8GB, 512 SSD,Original Window,11th Gen,Inbuilt Microsoft office	1		

Annexure- 3

Supply of Projector

S/N	Product Make	Product Name	Description	Qty	Unit Price	Total
	Projector	Benq/ Epson/ Hitachi/ Equivalent	High contrast ratio of 15000:1, 3,200 Lumens. HDMI, VGA and LAN Including Mounting Assembly and Projector Screen	1		

Annexure- 4

Supply of Furniture and Branding						
S N	Product Make	Product Name	Description	Qty	Unit Price	Total
1	Niti Aayog ATL Branding	Gears Cutout	Different sizes	6		
2	Niti Aayog ATL Branding	Bulb design branding	4x2 feet, cutout	4		
3	Niti Aayog ATL Branding	Flex for Outside of the lab	3x1.5 feet	3		
4	ATL Lab sinages	Sinages	2x1 Feet	14		
5	Tinker wall	1 AM Innovator	8x1.5	1		
6	ATL Branding	Sunboard	3x2 feet	7		
7	ATL Branding	Sunboard	3x3 feet	1		
8	ATL Branding	Sunboard	4x2 feet	1		

Furniture Package						
SN	Product Make	Product Name	Description	Qty	Unit Price	Total
1	Work Table	Metal (frame and legs) MDF Pre-laminated top	3X3 feet, in Hexagonal shape	3		
2	Work Table for 3D printer	Metal (frame and legs) MDF Pre-laminated top	4x2.5 feet with Storage Cupboard, and Rack on Top	1		
3	Work Table for Drilling station	Metal (frame and legs) MDF Pre-laminated top	4x2 , with fancy and attractive wheel	1		
4	Soldering station with utility shelf	Metal (frame and legs) MDF Pre-laminated top	6x2 Feet, with Softboard and tuplight stand on top	1		
5	Stools	Plastic with cushion	standard	30		
6	Almirah	MDF pre laminated with Lock	6x3 feet	1		
7	Computer table	MDF pre laminated	4x2 feet with Power supply board	2		

Annexure- 5

Financial bid

Financial Bid		
Sl. No.	Component	Price
1.	Equipments, tools and instruments (mentioned in Annexure 1 i.e. Package 1,2,3 and 4)	
2.	Laptop (mentioned in Annexure 2)	
3.	Projector (mentioned in Annexure 3)	
4.	Furniture (mentioned in Annexure 4)	
	<u>Total (Final Bid Price to decide L1)</u>	

Final Bid Price in words -

