



SERVICE AGREEMENT

This service agreement ("Agreement") is entered into this **06th June 2023** (effective date) between **United Way India UWI**, a society registered under the Societies Registration Act, 1860 vide Registration No. S/66400 having its registered office at 129, DDA Site 1, New Rajendra Nagar, New Delhi – 110060 and correspondence office at #501, Sun Vision Spent, 3rd Road, Khar (West), Mumbai – 400052, and represented by its authorized representative, Jayanti Shukla (hereinafter referred to as "UWI" which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include, its successors, administrators, heirs and permitted assigns)

AND

Stem Learning Private Limited, having its PAN card number as AAQCS0110G, GST Number as 27AAQCS0110G1ZL, having its registered office at Stem Learning Private Limited, Icon 1205, Marathon Nextgen, Lowerparel(West), Maharashtra, Mumbai - 400013, India (hereinafter referred to as "VENDOR" which expression shall unless it be repugnant to the meaning and context thereof be deemed to mean and include its Executors, Administrators, successors and assigns) of the Second Part.

VENDOR and UNITED WAY INDIA are collectively referred to as "Parties" and individually as "Party".
WHEREAS

Whereas the VENDOR is an organisation, based in **Mumbai** which have experience in **supplying & installation of Innovative Tinkering Labs with training** and has the required manpower, expertise and infrastructure to carry out such deliverables to UNITED WAY INDIA .

Now therefore, based on the aforesaid representations UNITED WAY INDIA intends to engage the VENDOR and for this purpose both the VENDOR and UNITED WAY INDIA agree to legally bind themselves to the following terms and conditions:

1. Scope of Services:

The VENDOR will be engaged as supplier for **supplying, installation and capacity building of School staff of 13 Tinker lab** to United Way India in Bangalore & New Delhi.

Rate agreed with Vendor is mentioned below:

		PROJECT BUDGET				
SR NO.	BUDGET CATEGORIES	Tinker cost school	lab per	Tinkerlab 13schools	Cost	





1	STEM Tinker lab Set up cost A) 5 Android Mobile B) 17 Arduino Program kit (Include Arduino UNO) C) 10 Basic Robotics Kit D) Set Of Basic Components (Include Resistors, Capacitors, LEDs, etc.) E) General Purpose Sensors (LCD, LDR, Ultrasonic Sensors, etc.) F) Wireless Sensors (Bluetooth) G) Advance DIY Robotic Kit (Robotic Arm, Walking Robot) H) Programming Drone I) Soldering & Prototyping Kits J) 1 DIY Robotics kit K) Set of Hardware Tools L) Safety equipment's M) Back Drops & lab setup N) Study Book for Tinker lab	2,00,000	26,00,000
2	Learning Tools (video lessons plan training Manual and Software Installation)	50,000	6,50,000
3	A) 1 - 3D Printer B) 2 - 3D Pen C) 1 - Laser Engraver (including Consumable)	1,20,000	15,60,000
4	Training (15 Training in each schools with reporting and documentation)	1,59,000	20,67,000
5	1 – Laptop = RAM - 4GB, ROM – 512 GB, Processor – i3, screen – 15.6 inch.	33,898	4,40,674
6	Infrastructure: A) 4 – Tables (5" X 4") B) 16 – plastic Chairs C) 1 – MS cupboard with glass door.	36,000 8800 9500	4,68,000 1,14,400 1,23,500
Sub-Total		6,17,198	80,23,574
GST @18%		1,11,095.64	14,44,243.32
Grand Total		7,28,293.64	94,67,817.32
<p>Note: Project cost Tinker lab for 13 School for 1 Year including GST is Rupees = 94,67,817 only.</p>			






COMMERCIAL TERMS AND CONDITIONS DISCUSSED AND AGREED WITH VENDOR

Rates are inclusive of all taxes and transportation.

Rates are valid for 12 Months from the date of signing the agreement.

Payment will be made based on the Proforma Invoice raised by the VENDOR.

Payment will be made through RTGS/NEFT mode.

Goods will be delivered to the location within 30 days of receiving the purchase order.

No cancellation charges when order is Cancelled and informed before 48 hrs. to Vendor.

Goods will be delivered to the location as per address mentioned in the purchase order and in one location.

Vendor will ensure the timeliness and will deliver the materials as per the purchase order.

Transit Insurance will be the responsibility of the Vendor.

Materials to be delivered as per quality and quantity mentioned in the purchase order. Any damage goods need to be reported to Vendor immediately over email within 48 hours of receiving the goods and Vendor will replace free of cost within 10 days' time.

2. Payment Schedule:

- a) UNITED WAY INDIA shall make payment only for the services delivered on the following terms and conditions as below. UNITED WAY INDIA shall not be responsible to make any payment or reimburse any costs/expenses incurred by the VENDOR for any service that has not been prior approved by UNITED WAY INDIA in writing.
- b) UNITED WAY INDIA shall not be liable to make payment for any defective goods/services and for delivery that is delayed beyond a period of 10 days provided that such delay is not due to force majeure causes as stated. In such instances, UNITED WAY INDIA shall be entitled for replacement of defective goods or added services and/or use its best judgment to make appropriate payment which shall not be disputed by VENDOR, the Vendor whatsoever.
- c) Submission of the quarterly project progress report along with project annual report as per the expectations of UNITED WAY INDIA. The Annual report should be submitted in hard and soft copy to UNITED WAY INDIA.

- d) Following payment terms would be adhered under the project

Payment terms:

Sr. No.	Payment Terms	Amount (INR)
1	75% on signing of agreement	71,00,862.99
2	10% after the submission of Q1 Report	9,46,781.73
3	15% After the submission of Q2 Report with installation & training completion	14,20,172.60
	Total Budget	94,67,817





- e) Payment shall be made via RTGS / NEFT wire transfer to STEM Learning Pvt. Limited's' Bank Account as mentioned above. The details of the bank account have been set out below:

Name of the (non-FCRA) Bank Account:

Name of the Bank: ICICI BANK
Account Number: 032305003239
Branch Name: Lower Parel, Mumbai
IFSC Code: ICIC0000323

NOW THIS SERVICE AGREEMENT WITNESSES AS UNDER

3. Time is of Essence:

Parties agree that timelines mentioned in this agreement are of essence to the agreement. Any delay in the delivery of services/goods shall entitle UNITED WAY INDIA to deduct a sum of 2% of the total payment while making the final payment.

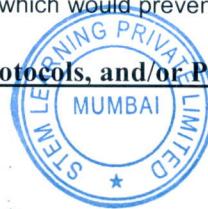
4. Confidentiality and access to information

- VENDOR agrees not to discuss its performance of services under this Agreement with any third party without the prior written consent of UNITED WAY INDIA. VENDOR agrees to hold in confidence for the benefit of UNITED WAY INDIA any confidential information.
- VENDOR agrees that all materials, reports, information, presentations, documentation, modules or other work-related documents generated by the VENDOR in the performance of services under this Agreement are the intellectual property of UNITED WAY INDIA and the VENDOR hereby assigns all rights, title and interest in the same to UNITED WAY INDIA.

5. Representation and Warranties of the VENDOR. The Vendor hereby represents and warrants to UNITED WAY INDIA that:

- it is competent to undertake this service /project and discharge all its obligations under this Agreement in an efficient manner;
- it has the relevant experience, expertise and resources to discharge all its obligations under this Agreement;
- this Agreement creates a binding and legally enforceable agreement on the Parties, and it has the requisite rights, powers and titles to grant and convey the covenants, commitments and undertakings set forth herein;
- its representations and warranties herein neither omit any material fact nor are misleading and no condemnation proceedings, litigation or attachments or administrative actions or any other matters are pending or threatened against it preventing it from the performance of its obligations;
- it will perform its obligations under this Agreement in compliance with all applicable and enforceable laws, ordinances and regulations and will obtain and maintain in full force and effect any permits, licenses, consents, approvals and authorizations necessary for the performance of its obligations hereunder;
- neither the execution nor the delivery of this Agreement nor the consummation of the transactions contemplated herein conflict with or will result in a breach of any of the terms, conditions or provisions of any documents, agreements or instruments to which it is a party or by which it is bound; and
- It shall not during the term of this agreement, enter or acquiesce in any other agreement which would prevent it from fully complying with the provisions of this agreement.

6. Adherence to UNITED WAY INDIA Child Protection Standards, Behavior Protocols, and/or Policies





- a) VENDOR and or its personnel agree to adhere to UNITED WAY INDIA Child Protection Standards, Behavior Protocols, and/or Policies in respect to any interaction with children.
- b) VENDOR agrees and accepts that failure to adhere to these child protection measures will be regarded, as a breach of a material term of this Agreement and UNITED WAY INDIA shall have the right to immediately terminate this Agreement without any further liability resulting from such termination.

7. Independent Status:

It is agreed and understood that each Party has no proprietary interest in the business of the other Party and this agreement shall not be construed to create any agency, partnership, or joint venture relationship or to permit either party to bind the other party to an agreement or to act on behalf of the other party in any respect. Each party shall be responsible for their own acts or omissions, and those of their employees, contractors or any other personnel engaged by them in the execution of this agreement which is on a non-exclusive basis.

8. Compliance:

The Parties hereby agree that each Party shall be responsible for compliance to laws, statutes, rules, ordinances as applicable to each Party and for discharging respective statutory obligations including all taxes as applicable and each party hereby declares that performance of its services under this agreement will not in any way be compromised or hindered or affected due to the same and no other approval or sanction is necessary for the performance of its obligations hereunder.

9. Assignment:

VENDOR shall not assign or purport to assign or otherwise deal with any of its rights and obligations hereunder to any other party without the prior written consent of UNITED WAY INDIA .

10. Indemnity:

VENDOR agrees to on demand indemnify, defend and hold harmless UNITED WAY INDIA and its directors, employees and representatives from and against any and all liabilities, costs, expenses, including claims, damages, actions, suits, or proceedings arising out or in relation to the services performed by the VENDOR under this agreement including any harm or injury sustained by any person or any third party in the course of, or purported course of the VENDOR's obligations under this Agreement as well as against any false representation /warranties on the part of the VENDOR, as the case maybe.

11. Anti- Corruption:

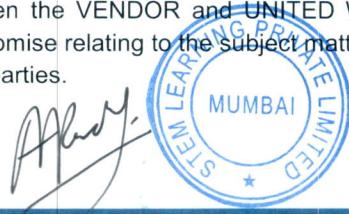
UNITED WAY INDIA is committed to accountability and transparency as an expression of its core value of "Stewardship" and hence is against all forms of corrupt practices and expects the same from the VENDOR in all its dealings which the VENDOR hereby consents unconditionally.

12. Waiver:

Failure by UNITED WAY INDIA to promptly exercise any option or right granted, or to require strict performance of any obligation herein imposed shall not be deemed to be a waiver of such rights or of the right to demand subsequent performance of any and all obligations herein imposed

13. Entire:

This agreement supersedes any and all other agreements oral or written between the VENDOR and UNITED WAY INDIA with respect to the subject matter here of and no agreement statement or promise relating to the subject matter of this agreement other than that which is contained herein shall be binding upon the parties.





14. Severability:

If any part or any provision of this Agreement is or becomes illegal, invalid or unenforceable, that part or provision shall be ineffective to the extent of such invalidity or unenforceability only, without in any way affecting the validity or enforceability of the remaining parts of said provision or the remaining provisions of this Agreement. The Parties hereby agree to attempt to substitute any invalid or unenforceable provision with a valid or enforceable provision, which achieves to the greatest extent possible the economic, legal and commercial objectives of the invalid or unenforceable provision.

15. Amendment:

This agreement may not be amended except by written mutual consent of the parties to this agreement. The amendments shall be documented and allotted a distinctive number and shall form part of the agreement.

16. Term & Termination:

- a) This agreement shall be valid for a period commencing from 6th June 2023 and shall automatically end on 31st May 2024. In the event of any renewal or extension, the same shall be after mutual discussion.
- b) UNITED WAY INDIA , shall have the right to terminate this agreement in the event of any false or incorrect statement and/or representation or concealment of any material statement or failure to perform any function or breach of any of the terms and conditions mentioned herein by the VENDOR, by giving a notice of 30 days in writing.
- c) In such an event the VENDOR will be paid for all services satisfactorily performed and accomplished up to the date of termination as determined by UNITED WAY INDIA.

17. DISPUTE

Both Parties shall make every effort to resolve all differences amicably taking into consideration the cause for which the parties have purposed to work together. In the event of any unresolved dispute the same shall be settled in accordance with the Indian Arbitration and Conciliation Act, 1996 by appointing a sole arbitrator to be appointed by UNITED WAY INDIA . The decision of the arbitrator shall be final. The parties shall bear their own individual costs and the costs of the arbitration shall be borne equally by the parties. The venue of arbitration shall only be at Bangalore. The Courts at Bangalore shall only have the jurisdiction to enter the award. The language of the arbitration shall be English.

18. DELIVERY

It is expressly agreed and understood that the delivery of Products shall take place at the ADP/Project locations. The VENDOR shall take insurance covering all the risks during transit. It is agreed between the Parties that time is of essence as UNITED WAY INDIA is involved in time bound projects/activities. VENDOR agrees to deliver the Products on or before the date of delivery as required by UNITED WAY INDIA .

19. GOVERNING LAW & JURISDICTION

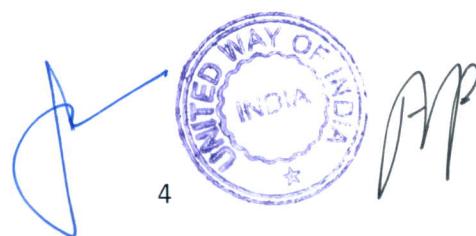
This agreement shall be governed by the laws of India and the Courts at Mumbai shall have exclusive jurisdiction in respect of any disputes arising out of this Agreement.

20. NOTICE

The sending of any communication shall be by registered post/certificate of posting to the address of the party by the other party which shall be deemed enough for the purpose of serving a notice by one party to the other. The address shall be as appearing below unless there is any change which the concerned party must duly communicate to the other party.

In the case of notices to –

UNITED WAY INDIA


AP





STEM Learning Pvt. Ltd.

Building Brains.....Beyond Books.....

1205, Marathon Icon, Marathon Nextgen Campus,
Opp. G. K. Marg, Lower Parel (w),
Mumbai - 400013.
Contact : 022 2493 3738/39

Address : 501, Sun Vision Spenta, 3rd Road, West, Khar West,
Mumbai, Maharashtra 400052

Attention : Ms. Jayanti Shukla
Telephone : +91 22 2604 3611

Email : jayanti.shukla@uwindia.org

In the case of notices to the VENDOR:

Name – Mahesh Kumar, **STEM LEARNING PRIVATE LIMITED.**

Regd. Address: ICON 1205, MARATHON NEXTGEN, LOWER PAREL (WEST), MAHARASHTRA, MUMBAI - 400013,

INDIA

Attention: Mr. Mahesh Kumar

Phone - +91 9739737716,

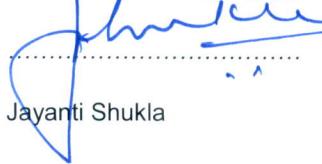
Email:Mahesh.kumar@stemlearning.in , www.stemlearning.in

21. Force Majeure:

If any party to this Agreement is prevented from complying either totally or in part, with any of the terms or provisions of this Agreement by reason of fire, flood, storm, riot, war, rebellion, accident or other acts of God, then upon written notice to the other party, the affected provisions and / or requirements of this Agreement shall be suspended during the period of such disability. However, **UNITED WAY INDIA** , shall be entitled for replacement of defective goods or services and/or use its best judgment to make appropriate payment, which shall not be disputed by the VENDOR whatsoever.

IN WITNESS whereof the authorized signatories of the parties hereto have subscribed their signatures to this MOU on 6th June2023.

FOR UNITED WAY INDIA


Jayanti Shukla
Chief Executive Officer

(Authorized Signatory)



FOR STEM LEARNING PVT LTD


Mr. Ashutosh Pandit

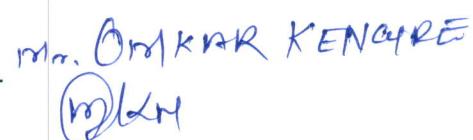
Managing Director
(Authorized signatory)


Mahesh Kumar

Corporate Relationship Manager
(Authorized signatory)

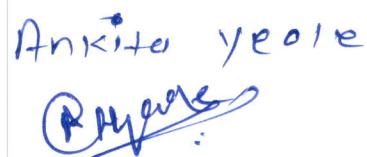
Witness 1

Witness 1


Mr. Omkar Kengre
(Witness)

Witness 2

Witness 2


Ankita Yeole
(Witness)



Annexure: 1
(Insert the proposal)

Proposal for STEM TINKERLAB **13 Schools**



[Handwritten signature]



[Handwritten signature]





Project Support requested under the Corporate Social Responsibility

1)	About STEM Learning	3
2)	What is Tinkering	4
3)	STEM Tinker Lab Project-What, Why?	4
4)	Objectives, Outcomes, Content	5
5)	Content Module description and pictures	<u>6-11</u>
6)	Project Sustainability	<u>12</u>
7)	Deliverables Per school	<u>12</u>
8)	Steps of Implementation	<u>13</u>
9)	Budget & Beneficiaries	<u>14</u>
10)	STEM Tinker Training class wise yearly plan	<u>15</u>
11)	TINKER Project Pictures	<u>16</u>





ABOUT STEM LEARNING

STEM Learning believes that every child deserves access to quality education

Mission-To enhances students' aptitude towards science & math so that they embrace it and grow with it while relishing the learning procedure.

Vision-To be globally recognized for introducing innovative learning products at the school level and contributing to society by making education easier for lesser privileged students.

Goal- Making learning accessible to all children for aptitude enhancement. To ensure that the students have access to equal opportunities





What is Tinkering?

To put across simply, Tinkering is basically experimenting with various electronic, robotic and technology tools; understanding their potential and thereby creating a solution for any problem.

Tinkering involves:

- Identifying a problem and conceptualizing a solution.
- Thinking out of the box and above the conventional streams.
- Putting the idea down on paper and utilizing technology to give it shape and create a new entity, which may be local or/and global in nature.

What is STEM Tinker Lab?

- STEM TINKER LAB has been conceptualized to imbibe futuristic skill sets among students
- To empower and encourage the students to design authentic, integrated STEM project based learning that engages students in the work of real scientists, engineers and mathematicians, to engage students' emotions, creativity and curiosity.
- To enhance their critical thinking skills and lateral thinking "outside the box".
- STEM Tinker lab will contain educational and "do it yourself" kits and equipment on -science, electronics, robotics, open source microcontroller boards, sensors and 3D printers etc.
- **EXISTING SCHOOL TEACHER** will be empowered to use the resources and to conduct tinker session for students.
- Tinker Lab is a **PERMANENT SETUP** for underprivileged children in their respective schools.

Why do we need STEM Tinker Lab in school?

- How will we prepare our children for a world that is constantly changing?
- How will we prepare today's workers for jobs that don't even have titles yet?
- How will we prepare ourselves for a lifetime of learning?

We need a new set of skills, and a new way to learn.

- We are at a crucial stage when the Indian Government is promoting initiatives such as Make in India, Skill India, Digital India, Tinkering Labs to encourage manufacturing, technology usage and skill development in the country. STEM is turning out to be an essential and integral component of our education. Once a kid develops a passion for STEM fields, it smoothens the decision making process to choose a right field to pursue one's career. It will help to create great thinkers, innovators, engineers and scientists that our society and industry needs. This is essential for our future prosperity and to our nation in order to develop competitiveness and play a vital role in a global economy.



AP





Objectives of STEM TINKER

- Stimulate CURIOSITY, CREATIVITY and IMAGINATION in young minds.
- To inculcate skills such as DESIGN MIND SET, COMPUTATIONAL THINKING, ADAPTIVE LEARNING, PHYSICAL COMPUTING etc.
- To EMPOWER EXISTING TEACHER by continuous HANDHOLDING AND SUPPORT to use TINKER LAB at its best.
- To develop combination of "hands on" and "mind on "approach.

Project Outcome: SKILLSET IN CHILDREN

- Enhancement of Logical Thinking through algorithm, flowchart.
- Problem solving skill with limited resources.
- Application of Science, Mathematics, Technology and Engineering (STEM) Concepts.
- Improves Cognitive skills (knowledge), Affective (growth in self-attitude/feelings) and Psychomotor skills (coordination, motor skill) in kids.

Project Outcome for TEACHER

- Teachers equip teaching methodology which enhances 21st century skills.
- STEM certification of teachers.
- Become a STEM peer leader for other teachers.

Project Outcome for SCHOOL:

- STEM Accreditation to the school.
- Permanent Tinker Lab in school.
- Capacity building and Empowerment program for existing teachers.





CONTENT

These modules range from grade V to X students.

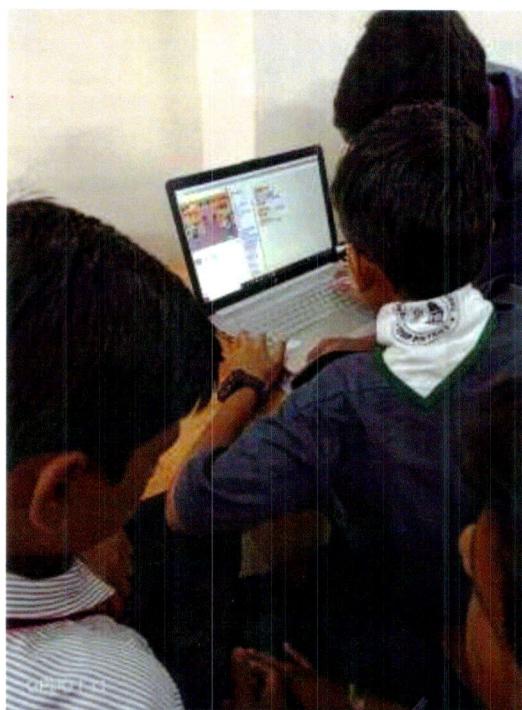
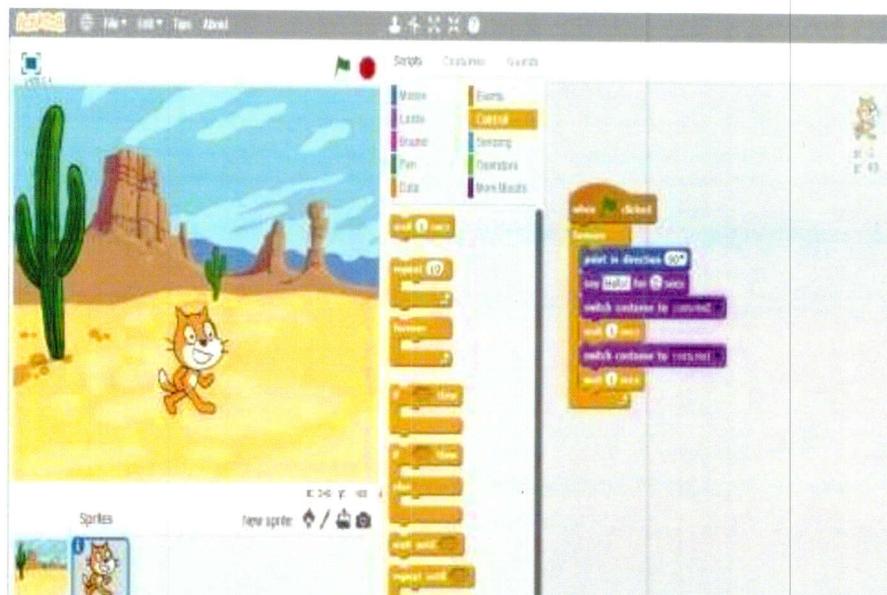
MODULE I - SCRATCH PROGRAMMING, HTML, ROBOT STRUCTURE BUILDING	This module is aimed to help understand the basics Of algorithm writing, programming. With this students will create animation, stories, and games. Students will build basic robotics racing car to perform different activity.
MODULE II- BASIC OF ELECTRONICS, ARDUINO UNO	This module will focus more on physical computing, circuit making, algorithm and development of prototype using hardware and software.
MODULE III – MOBILE APP DEVELOPMENT , Raspberry pi	In this module, the objective is to help in generating multiple mobile applications which can be used in real life situations and understanding of IOT and its importance.
MODULE IV-3D MODELLING & PRINTING,ROBOTICS	In this module we will focus more on designing 3D models using fusion 360 from Autodesk and get it 3D printed and students would get to use different kinds of hardware and software - sensors, boards etc.
MODULE V –ADVANCE ROBOTICS,DRONE PROGRAMMING	In this module we will focus more on advance robotics activity where students will have to use programmable robots and perform the activity.





Description of Scratch Programming

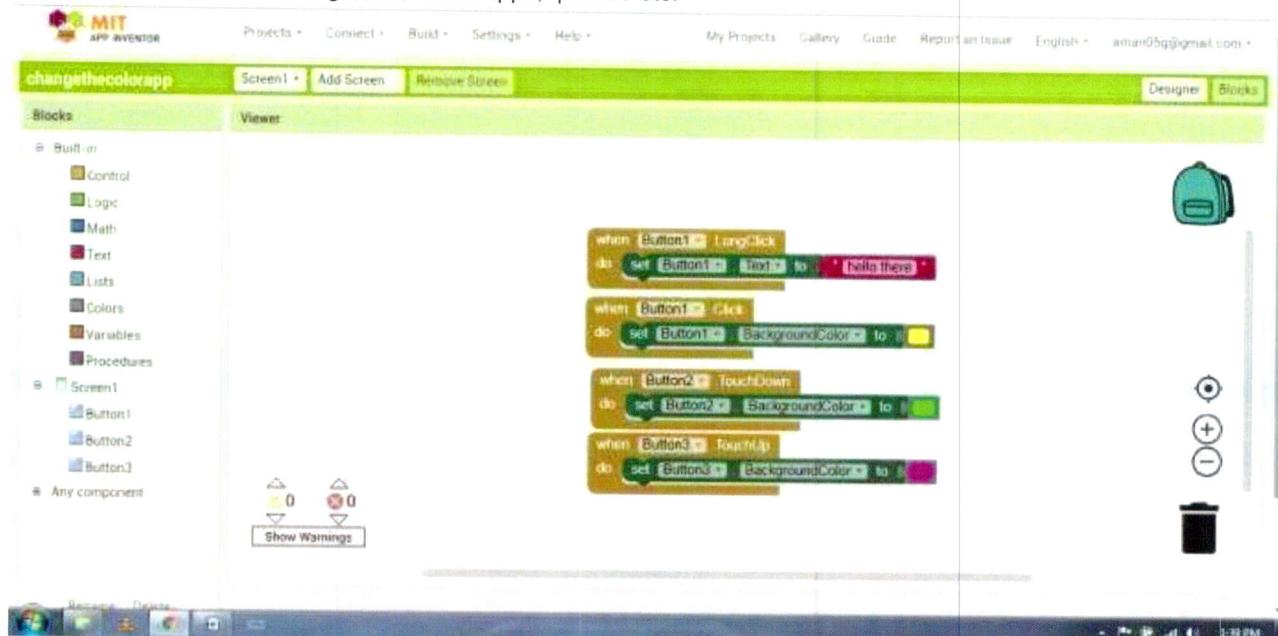
- Scratch is a visual programming language developed by MIT Media Lab.
- Scratch was created to help young people learn to think creatively, reason systematically and work collaboratively.
- It can be used for math and science projects, including simulations and visualizations of experiments, recording lectures, to social sciences animated stories, and interactive art.





Description of Mobile App Inventor

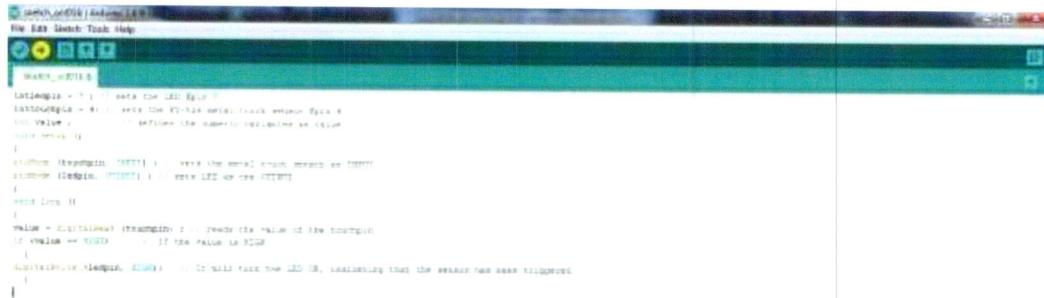
- App Inventor is a visual, blocks language for building Android Apps. It is being used in classrooms all over the world to broaden participation in computer science. Students will be able to build games, social apps, quizzes etc.



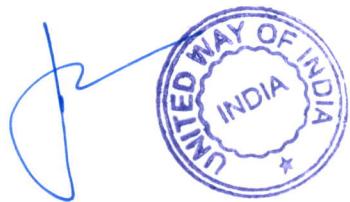
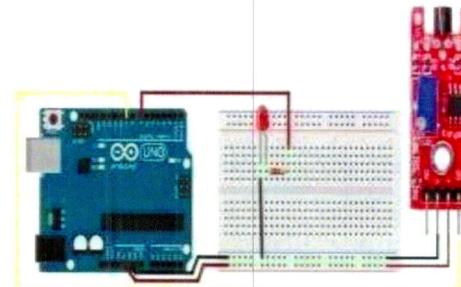
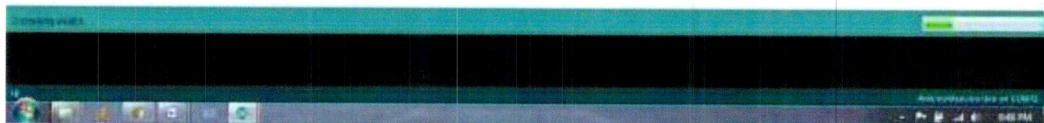


Description of Arduino

- Arduino is an open source electronic platform based on easy to use hardware and software.
- Arduino boards will allow students to build digital devices and interactive objects that can sense and control objects in physical world.



```
main_001818.ino
//data for LED
int ledPin = 9; //pin 9 for the LED
int sensorPin = 0; //pin 0 for the analog sensor
int val; //variable to store the value from the sensor
int sensorValue; //variable to store the value from the sensor
void setup() {
  // initialize the LED pin as an output:
  pinMode(ledPin, OUTPUT);
  // initialize the sensor pin as an input:
  pinMode(sensorPin, INPUT);
}
void loop() {
  // read the value from the sensor:
  sensorValue = analogRead(sensorPin);
  // read the value of the component:
  if (sensorValue > 500) {
    // if the value is 500:
    // turn the LED on:
    digitalWrite(ledPin, HIGH);
  } else {
    // it will turn the LED off, meaning that the sensor has been triggered:
    digitalWrite(ledPin, LOW);
  }
}
```



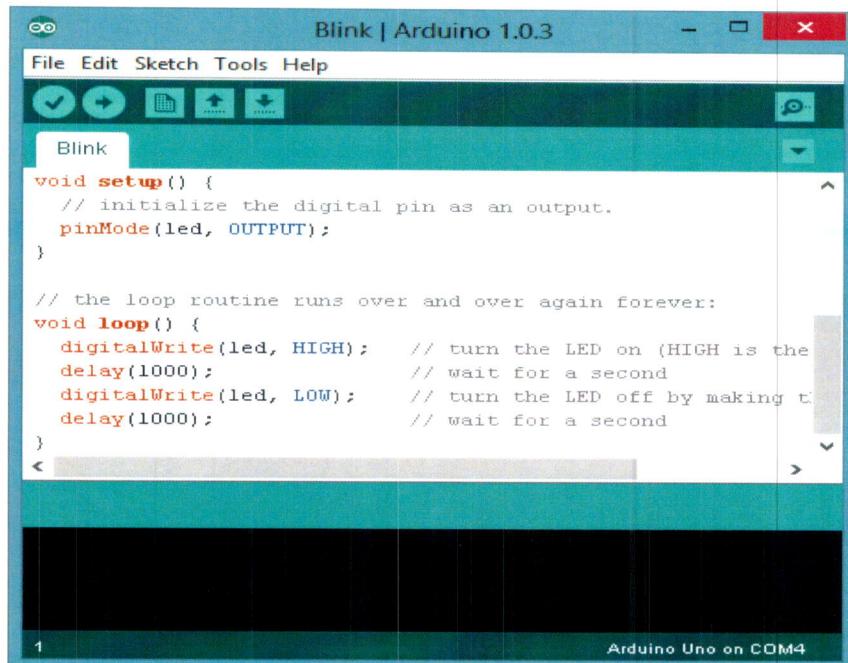
AP





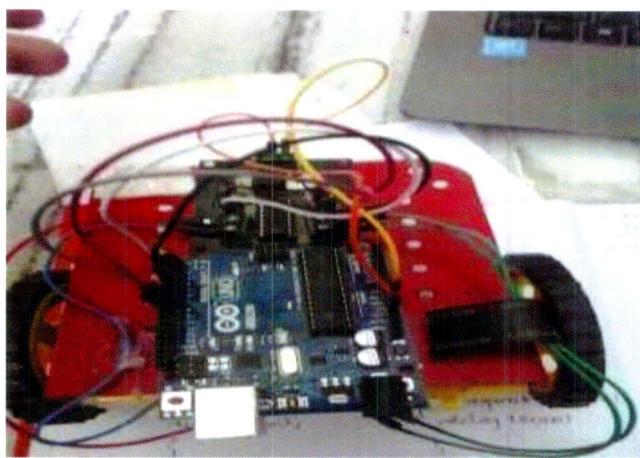
Description of Robotics

- Robotics is an interdisciplinary branch of engineering and science that includes mechanical engineering, electrical engineering, computer science, and others
- Students would get to use different kinds of hardware and software - sensors, boards etc. and construct an autonomous robotic car.
- Students will learn to write algorithm and program using Arduino software.



```
void setup() {
  // initialize the digital pin as an output.
  pinMode(led, OUTPUT);
}

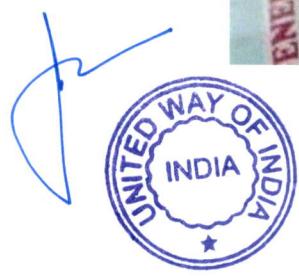
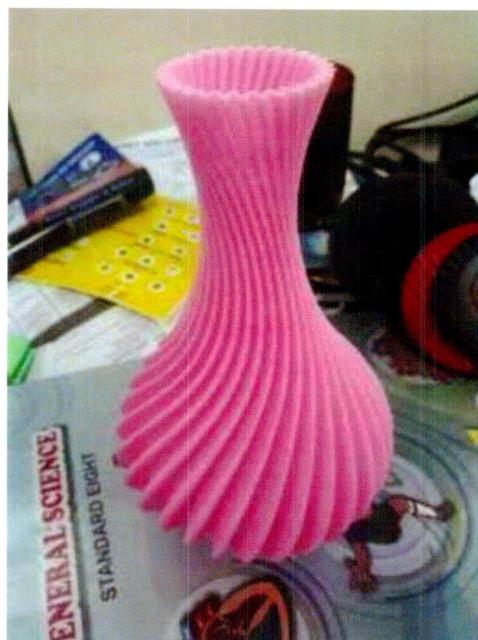
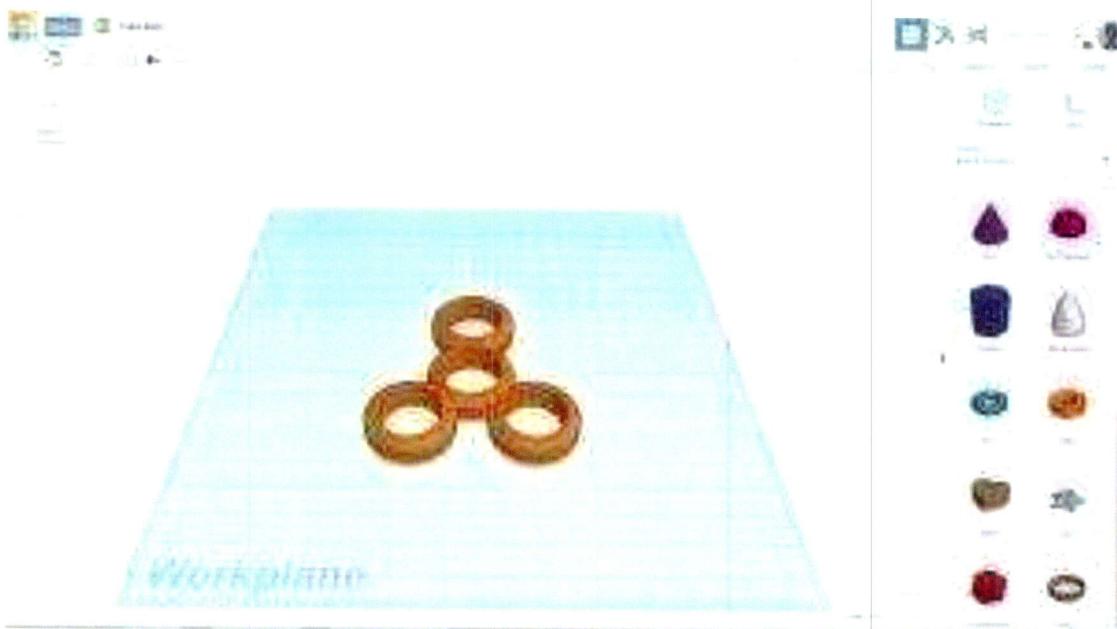
// the loop routine runs over and over again forever:
void loop() {
  digitalWrite(led, HIGH);      // turn the LED on (HIGH is the
  delay(1000);                // wait for a second
  digitalWrite(led, LOW);      // turn the LED off by making it
  delay(1000);                // wait for a second
}
```





Description of 3D designing and printing

- 3D printing is a technology that allows students to turn any digital file into a three dimensional physical object.
- It allows rapid prototyping and customization. It will enhance hands on learning and learning by doing.
- Students will be able to produce realistic 3D mini models and thus add on to the maker culture.



PP





Project Sustainability

- STEM Tinker Lab is **A PERMANENT INFRASTRUCTURE** which is based in the school premises
- Tinker Lab **OWNERSHIP** with the school starts from the day of the orientation and setup; giving long term benefits to the school and its students,
- **EXISTING TEACHERS** are trained and thus empowered to use TINKER lab for long term.
- For the corporate donor it ensures **LONG-TERM BRANDING** and **VOLUNTEERING OPPORTUNITY** too.

Deliverables (per school)

1) Deliverables for PERMANENT TINKER LAB (1 School)		
Tools and Equipment	Learning Resource	Program
<ul style="list-style-type: none"> • Arduino kit (DIY)— 10 sets Micro-controller board 15 Types of sensors, cables, Electronic items (Led's, buttons) Breadboard • Raspberry Pi kit - 2 • Robotics Kit (DIY)—10 sets Robot Chassis with wheel Micro-Controller Board Battery Cables Infrared Sensor, Bluetooth • 3 DIY Robotics kit • Mobile Phone—5 • All software-5 • Accessories and stationary 	<ul style="list-style-type: none"> • Lesson Plans (document and video) • 4 months of Training programs. Trainer visits school in every week. • Class room observation visits. • Online training sessions • Certification of students and teacher. 	<ul style="list-style-type: none"> • Tinker Fest (Inter school competition and Project display exhibition) • End line Document, Video and Photographs.
<ul style="list-style-type: none"> • Program Coordinator, Logistics and Administration 		



AP



STEPS FOR IMPLEMENTATION

Tinker Program	
1	Identification of school
2	Orientation of Teachers & Principal- Introduction to Tinker Lab, activities,instruments and benefits of the same to teacher and students.
3	Train the teacher- Continuous handholding and training of teacher for eachactivity.
4	Tinker Session for students – Selected and interested students will attend theirrespective sessions.
5	Competition and Felicitation Program – students will showcase their projects, innovations and ideas. Teacher and student will be provided with certificate.



OPPO F11





Budget

PROJECT BUDGET			
SR NO.	BUDGET CATEGORIES	Tinker lab cost per school	Tinkerlab Cost 13schools
1	STEM Tinker lab Set up cost A) 5 Android Mobile B) 17 Arduino Program kit (Include Arduino UNO) C) 10 Basic Robotics Kit D) Set Of Basic Components (Include Resistors, Capacitors, LEDs, etc.) E) General Purpose Sensors (LCD, LDR, Ultrasonic Sensors, etc.) F) Wireless Sensors (Bluetooth) G) Advance DIY Robotic Kit (Robotic Arm, Walking Robot) H) Programming Drone I) Soldering & Prototyping Kits J) 1 DIY Robotics kit K) Set of Hardware Tools L) Safety equipment's M) Back Drops & lab setup N) Study Book for Tinker lab	2,00,000	26,00,000
2	Learning Tools (video lessons plan training Manual and Software Installation)	50,000	6,50,000
3	A) 1 - 3D Printer B) 2- 3D Pen C) 1- Laser Engraver (including Consumable)	1,20,000	15,60,000
4	Training (15 Training in each schools with reporting and documentation)	1,59,000	20,67,000
5	1 – Laptop = RAM - 4GB, ROM – 512 GB, Processor – i3, screen – 15.6 inch.	33,898	4,40,674
6	Infrastructure: A) 4 – Tables (5" X 4") B) 16 – plastic Chairs C) 1 – MS cupboard with glass door.	36,000 8800 9500	4,68,000 1,14,400 1,23,500
Sub-Total		6,17,198	80,23,574
GST @18%		1,11,095.64	14,44,243.32
Grand Total		7,28,293.64	94,67,817.32
<p>Note: Project cost Tinker lab for 13 School for 1 Year including GST is Rupees = 94, 67,817 only.</p>			






STEM Tinker Training class wise sessions:

S.NO.	Module	Time Period
1	Robot Structure Building Kit	1 Week
2	Scratch Programming	1 Week
3	HTML	1 Week
4	Mobile App Inventor	1 Week
5	Basics of Electronics	1 Week
6	Arduino	3 Week
7	Robotics	2 Week
8	Advanced Robotics	3 Week
9	3D Printing and Modeling	2 Week
10	Raspberry pi	1 Week
11	Carrier Guidance	1-2 Sessions

Note: Considering School's examination time table and vacations, this above mentioned schedule is the yearlong schedule.

Tinker samples videos link:

<https://www.youtube.com/watch?v=xS4mcOX0H4Y>

<https://www.youtube.com/watch?v=LRK7XnR3sJU>





STEM Learning Pvt. Ltd.

Building Brains.....Beyond Books.....

1205, Marathon icon, Marathon Nextgen Campus,
Opp. G. K. Marg, Lower Parel (W),
Mumbai - 400013.
Contact : 022 2493 3738/39



Tinker Training Session in Padaranpura Girls School



BBMP Ganganagar School students and Stem trainer exploring Tinker Session.



PP

