

# *Towards equitable and sustainable development*

*through ubiquitous and low-cost access to learning*

Priyadarsan Patra

SEEDS



**S**ustainable **E**conomic and **E**ducational **D**evelopment **S**ociety

*Sowing seeds of change since 1993*

(A tax-exempt US non-profit dedicated to equitable development)

**SEEDS mission** is rooted in our wish to promote educational and economic progress and development not only for the common folks particularly in Odisha, but also in the developing world at large

[www.seedsnet.org](http://www.seedsnet.org)

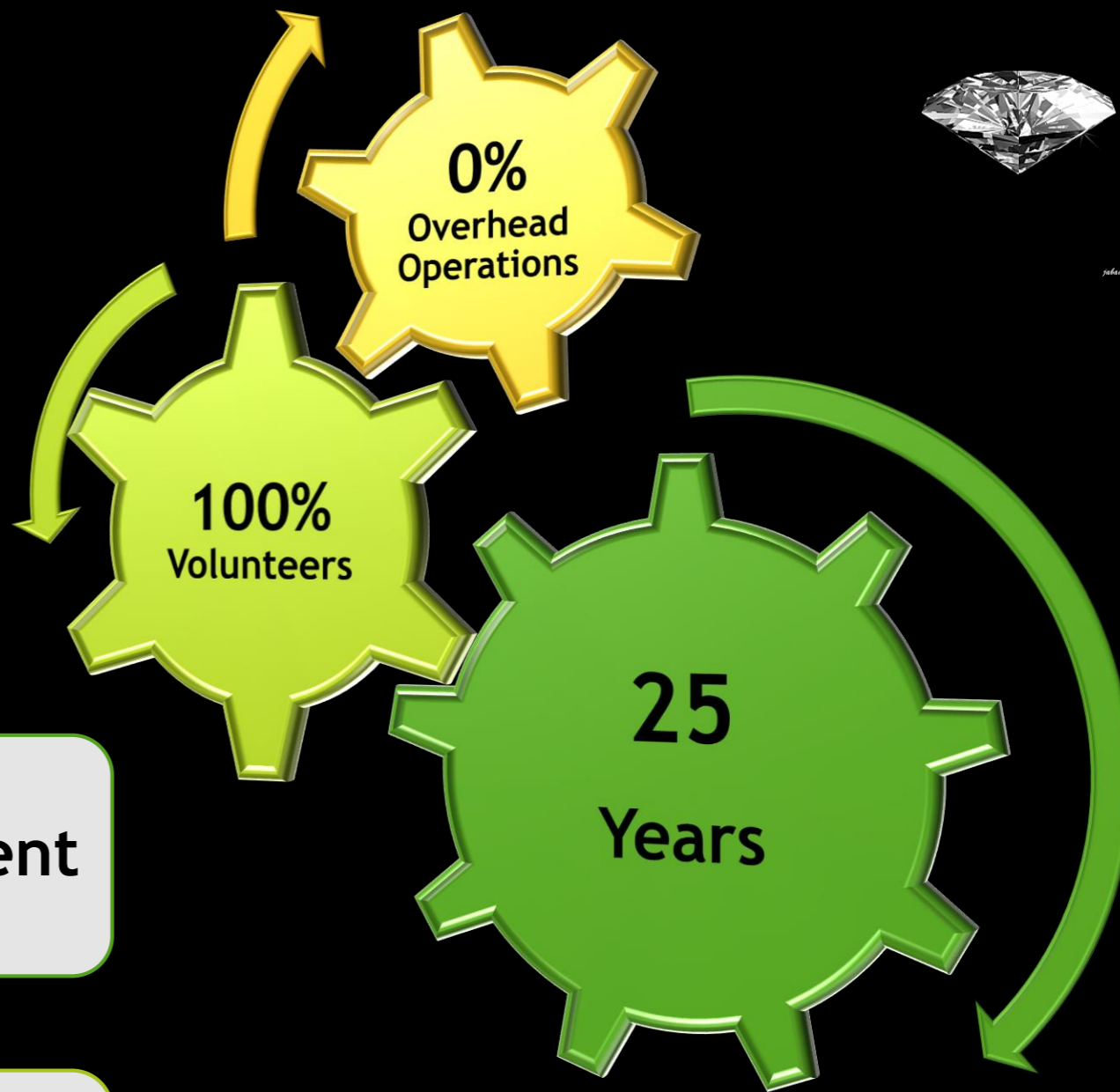
[www.facebook.com/seedsnet.org](http://www.facebook.com/seedsnet.org)

**SEEDS - Catalysts of Change**





# INCEPTION



**YEAR**

- March 1993 as Kalahandi-Bolangir-Koraput Development Initiative

**VISION**

- Equitability, Sustainability, Grassroots Education & Nonsectarian Development

**PLACE**

- Began at UT Austin and spread to various corners of the World





# METHODS

## Sustainable

long-term,  
self-supporting,  
environmentally non-predatory

## Equitable

Fair,  
Just

SEEDS promotes  
Economic and  
Educational  
progress

## Grass-roots Based

Decentralized  
Primarily Bottom-up  
Approach

## Inclusive

Collaboratively address  
systemic development  
issues

# PHILOSOPHY





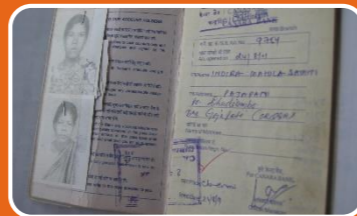
A Slice of the Projects



Computing for Masses



Rural Math Talent Search



Nano Finance



Cyclone Rehab Project in Odisha & Vizag



Modern public library initiative



Preservation of art forms



Mahila Shanti Sena  
(Female Peace Brigade)



# Rural Math Talent Search (RMTS)

- Rural students fall behind their urban counterparts after class-V due to **fewer resources and lack of recognition**
- Conducted by **Institute of Math and Applications, Bhubaneswar.**
  - Partially sponsored by the **Indian Dept. of Atomic Energy**
- Objectives:
  - **Seek out and nurture rural math talents**
  - **Train teachers**
    - Teaching in a cooperative environment
    - Modern methods of teaching mathematics

# RMTS Scholars



SI.No	Name of the Centres	No of Students	Districts
Column1	Column2	Column3	Column4
1	L.N.Primary School,Marcona	100	Balasore
2	S.R Bidyapitha, Bagrukhi	75	Balasore
3	Ladarpali High School	90	Bargarh
4	Debahal Nodal U.P School	122	Bargarh
5	Janhapara M.E School	92	Bargarh
6	Lastala Nodal U.P School	106	Bargarh
7	Mahatma Gandhi College, Bhukta	50	Bargarh
8	Tikira U.G.M.E School,	105	Bhadrak
9	Khageswar M.E School,Chhayalsingh	50	Bhadrak
10	Brahmapur Nodal U.P. School	123	Bhadrak
11	Govt. U.P School,Khaprakhol	100	Bolangir
12	Manamunda G.M.E School	35	Boudh
13	Palsagora N.U.P School	30	Boudh
14	Charichhak T.O.M.E School	32	Boudh
15	P.Katak N.U.P School	69	Boudh
16	B.N.Pur Nodal U.P School	41	Boudh

Visit [rmts.seedsnet.org](http://rmts.seedsnet.org) for more

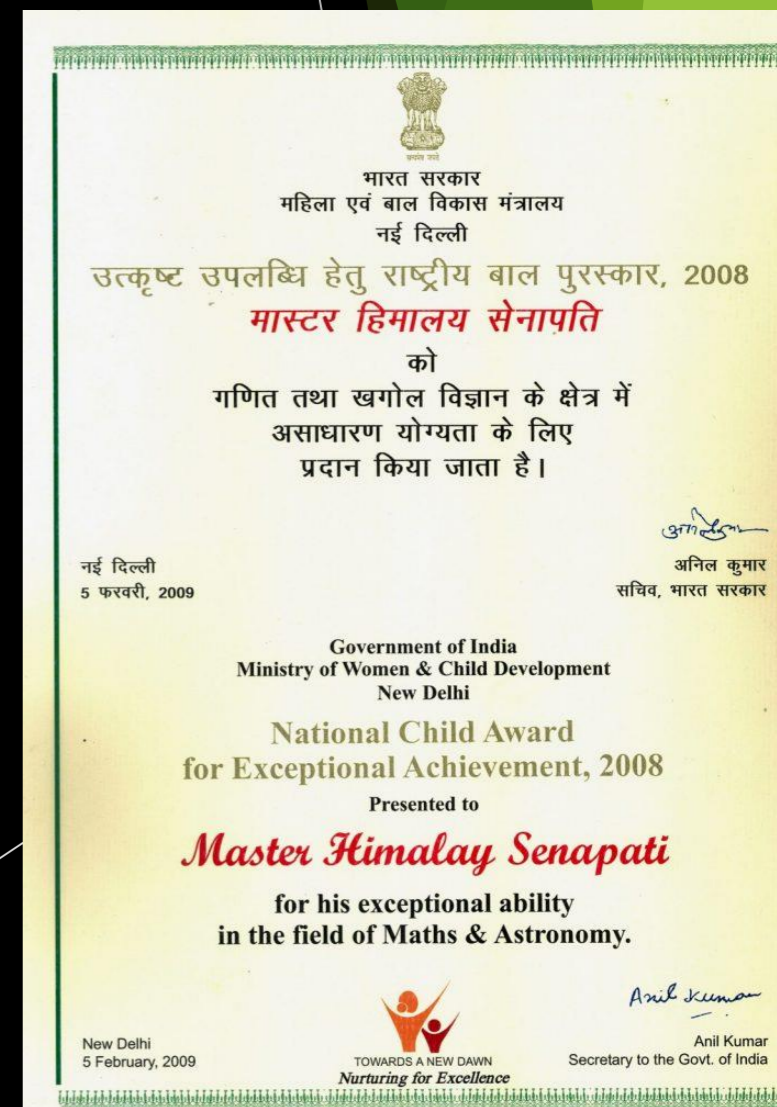


# RMTS succeeded to

- Identify and support promising youngsters in rural areas of Orissa from 6th Grade and some who are entering college.
- Overhaul the educational system and to bring the underprivileged class into main stream
- Provide 100's of scholarships, training and policy advice, advocacy
- Bring a ray of hope and a dream of the future in the young boys and girls..



Student Himalaya goes to win in international competition!



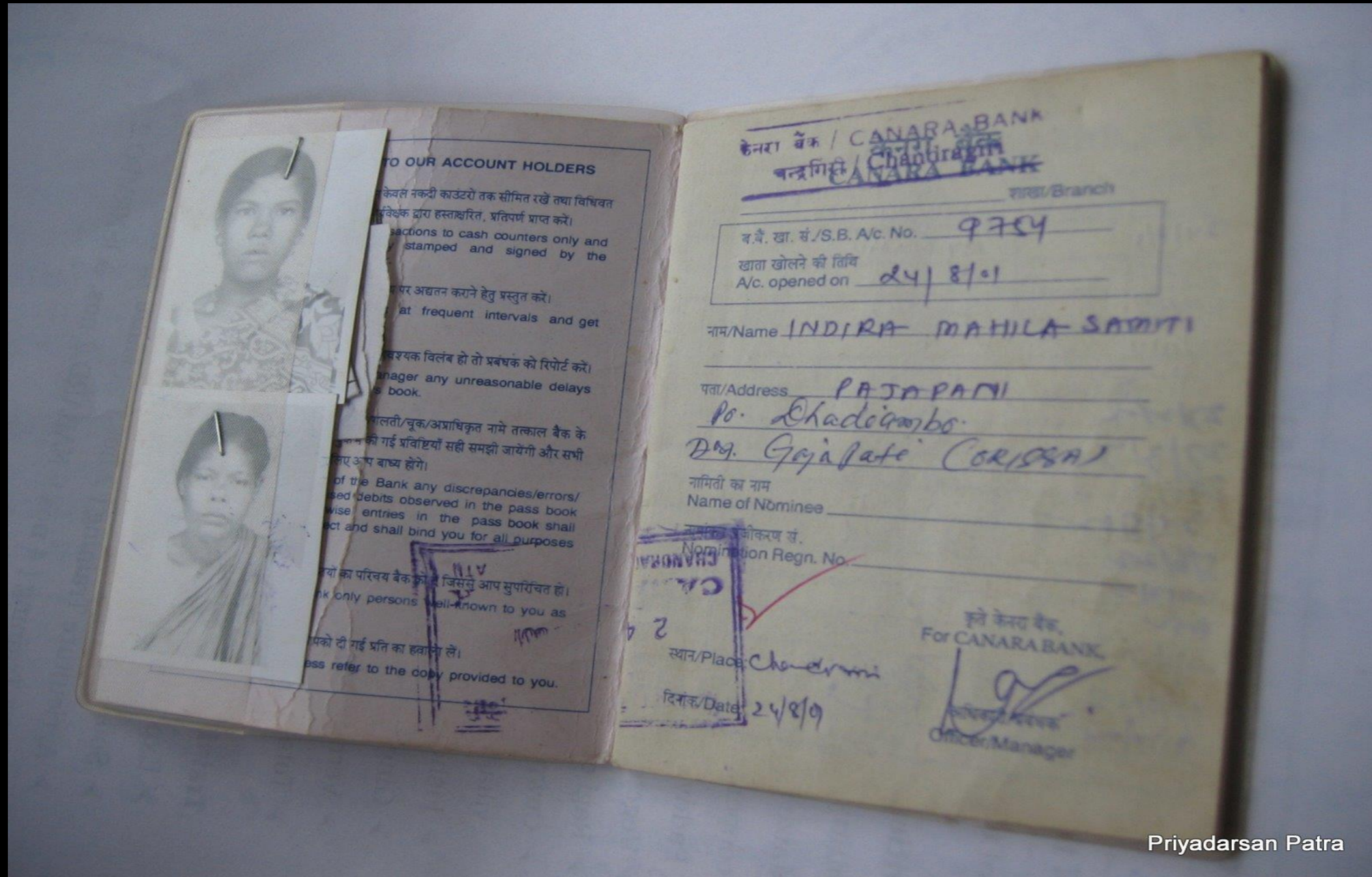




# Nano-finance (Aamara Biswas)

- Partnering with **Aamara Biswas**, which helps the poorest of the poor women in their **emergency needs** for **food, healthcare, small trades** and their **children's education** through Nano Finance.
- Primary objective is to give small (\$12) **interest free loans** for 1 year
- This **stops women from going to money lenders** with interest rates of 120% or more
- **500 rupees (less than 12 dollars)** can bring security to a woman's life and **lessen her burden** in time of emergency!

# Women's Self-help Groups



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Independence and dignity from owning a savings book





# Mahila Shanti Sena (MSS)

## (Female Peace Brigade)

- **Women Corps** in villages as peace movement for building just society, since 2002
- **Focuses** on violence, poverty, illiteracy, unemployment, neglect, crime, sanitation, natural disasters, village service
- **Training camps, workshops, conferences for grass roots** member groups consisting of 5 or 10
- **Cross-state** (Odisha, Bihar, UP, Assam...) and **cross-country** (India, Canada)
- **Partners:** Canadian Gandhi Foundation for World Peace, SEEDS (USA), Unnayan NGO (Odisha)
- Inspiration: **Acharya Ramamurty, Gandhi**



# *Mahila* **(Women)**



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02/04/2012

# *Sabhaas* **(Meets)**





# Computing for the Masses (CfM) and Education without Borders (EWB)

- **Information and Communication technologies (ICT)** are accessible to a few creating a “digital divide”.
- **CfM** creates new forms of income generation
  - **Remote magazine/news production/typesetting, printing cards or handbooks, computer-assisted tutoring, service remote calls, etc.**
- **It breaks the information barrier to development**



School where first  
“Computing for  
Masses” was hosted



The Server



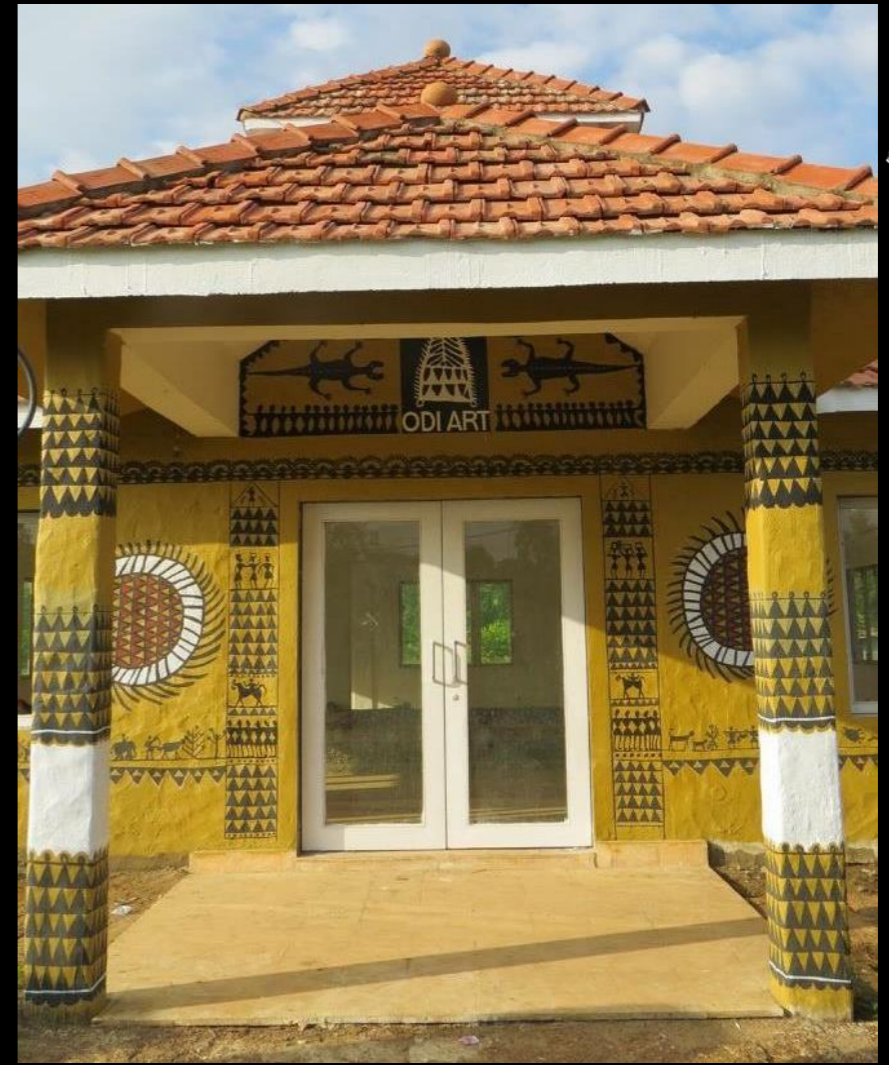
The Five Clients





# Preservation of dying art forms

- ***Pala*** is a valuable cultural tradition of Odisha, combining theatre, Odissi music, highly refined Odia and Sanskrit poetry, wit, humor, and social satire.
- ***Ravanna Chhaya*** (shadow puppetry) originated in Odisha, and then spread through South and Southeast Asia.
- Both of these art forms may be facing extinction under the relentless pressures of modern entertainment media.
- In 2008, we initiated a project to help sustain and enrich both the art forms which involved: (a) popularization; (b) training; (c) scholarship; (d) publication; and a (e) plan for self-sustainability after a few years.
- Shows/ workshops/ seminars have been held in the larger rural/suburban centers: Keonjhar, Anugul, Katak, Jagatsinghpur.



# Pala & Ravanna Chayya Rural Odisha art forms

## Chilika Museum of Art







# Cyclone Rehab Project in Odisha & Vizag

- Residents of approximately **380 villages** in **30 Gram Panchayats** of **Balasore** and **Mayurbhanj** districts have been **affected** by the floods that hit the state of **Odisha** following the aftermath of **Cyclone Phailin**.
- With many of the state resources utilized in keeping people safe during the cyclone, there has **been little time to react to the consequences**.
- The organization has also been working with volunteers and other socially responsible groups to ensure that **medical relief material** reaches families.

Garampetta village devastated by Cyclone Phailin  
School supplies to get children back



# Disaster Rehab Work & Water-shed Projects





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# Water, Irrigation, Income- generation projects



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# Modern Public Library Initiative

➤ Worked to create “**Odisha Public eLibrary**” and other “*Model Rural or Urban Libraries*”; collaborating with **Odisha Society of** t-up, and working with e-els.

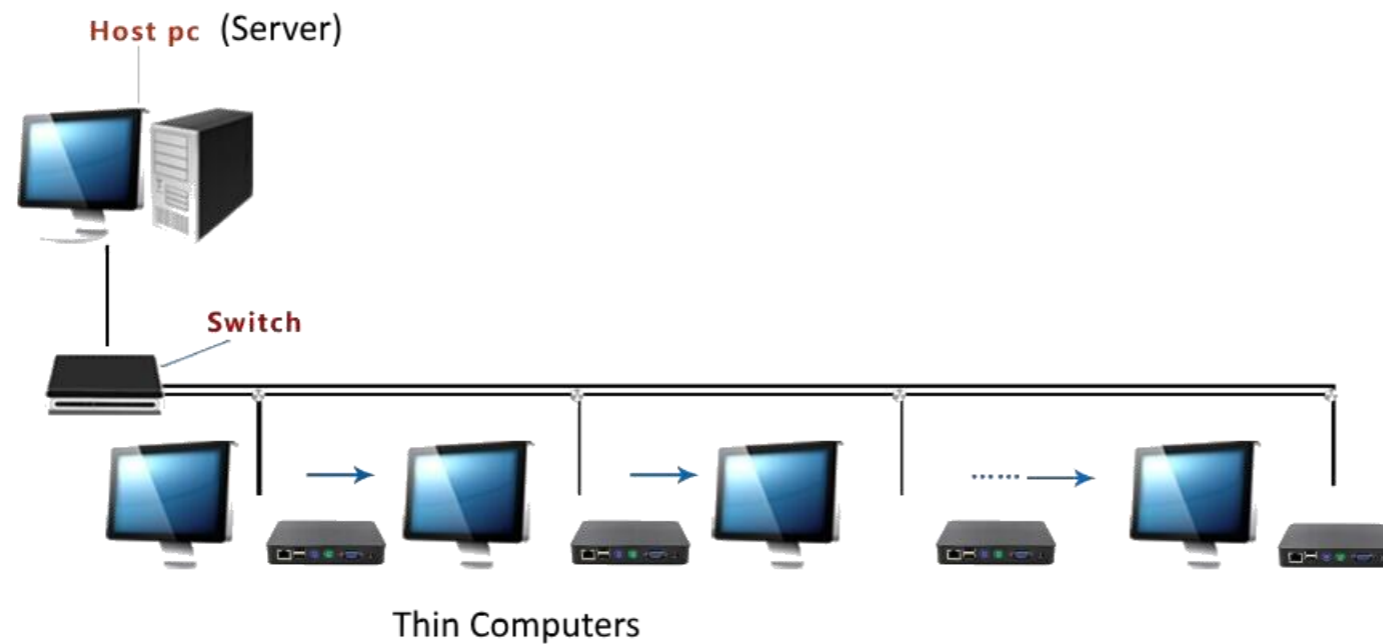


➤ What we **laptop/te** books, like mate **n-academy** on-academy “friends-c” **enthusiastic base of** class public **for a world-** old.

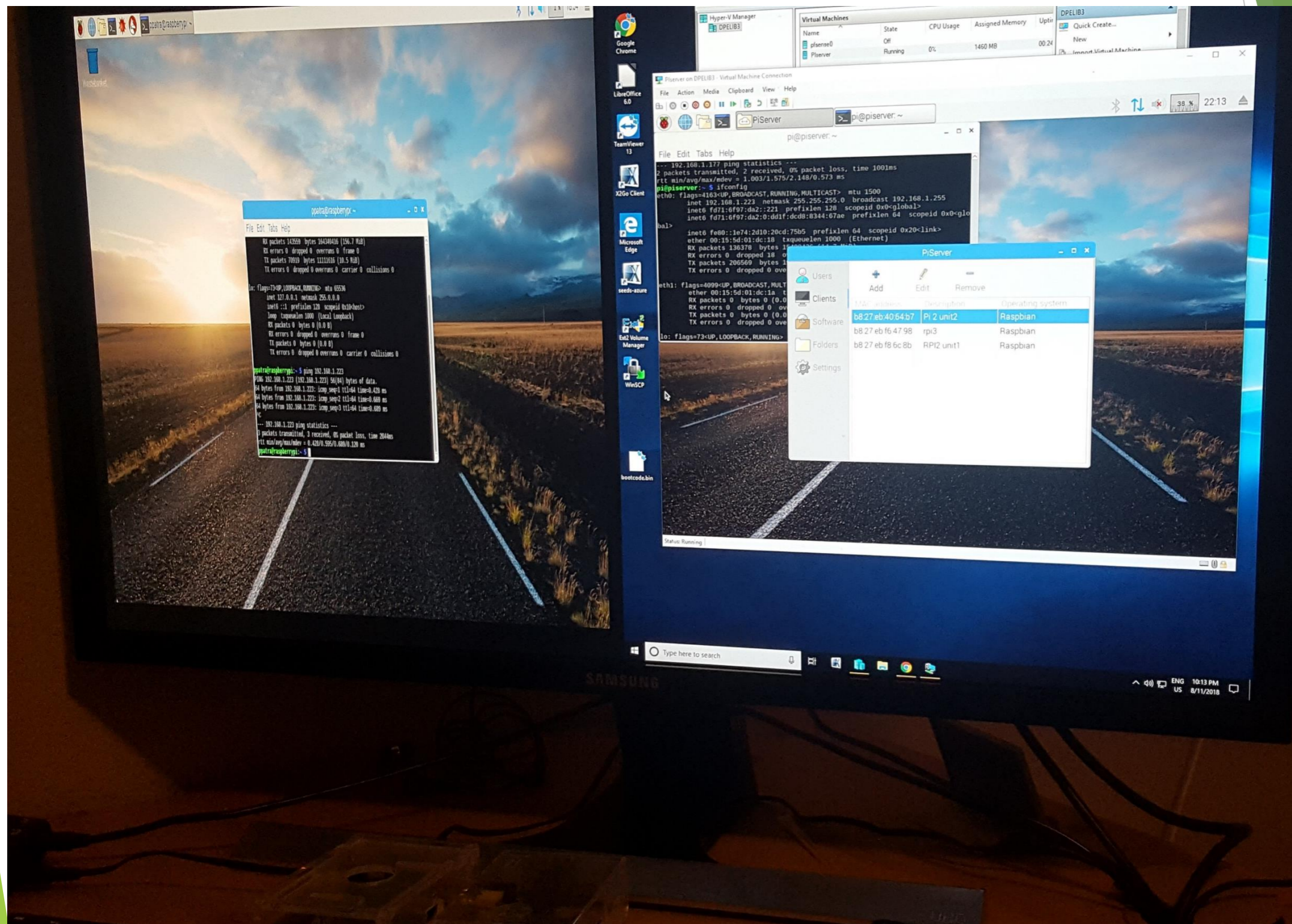
➤ **Libraries** need to become **community centers** for a modern, vibrant democracy!

# Education without Borders

Ubiquitous and low-cost access to learning



# Demo of the networked system



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system as if  
any other

run on an  
which means you  
advantage of the  
network, and  
server.

# EWB Resources

## Flipped model of learning



### Edison - Fun Robotics for Tomorrow's Inventors

The super affordable robot for learning and inventing. Edison is Lego compatible, easy to program and has built-in programs that are activated by driving over barcodes.

EdBooks - Your EdVenture into Robotics  
 EdBook1 - You're a controller  
 EdBook2 - You're a programmer  
 EdBook3 - You're a builder

Lesson Plans  
 EdMat Robotics Activity Mat  
 Programming Software  
 Firmware Updates

The Edison robot is an innovation from Microbric, an Australian company based in South Australia. Microbric has been providing educational products to schools since 2004. The materials references were not changed in any way and are released under the license, Creative Commons Attribution-ShareAlike 4.0 International (CC BY-SA 4.0). More information is available at <https://meetiedison.com>.



### Khan Academy Health & Medicine

 Search Khan Academy

Nearly 200 videos on health topics, covering the workings of major body systems and the diseases that affect them. All Khan Academy content is available for free at [www.khanacademy.org](http://www.khanacademy.org).

The Heart  
 The Lungs  
 Influenza  
 Blood  
 Blood Vessel Diseases  
 Fetal Circulation  
 Arterial Stiffness  
 Healthy Lifestyle  
 Endocrinology and Diabetes  
 Health Care System  
 Colon Disease

Cervical Spine  
 Hypertension  
 Lab Values and Concentrations  
 Heart Disease and Stroke  
 Heart Muscle Contraction  
 Heart Depolarization  
 Nerve Regulation of the Heart  
 Pressure Volume Loops  
 Changing the PV Loop  
 Preload and Afterload  
 Miscellaneous

These materials do not provide medical advice and are for informational purposes only. This content is not intended to be a substitute for professional medical advice, diagnosis or treatment. Always seek the advice of a qualified health provider with any questions you may have regarding a medical condition. Never disregard professional medical advice or delay in seeking it because of something you have read here.



### Fantastic Phonics

Fantastic Phonics is a complete 16 week intensive reading scheme for schools and families, with 60 printable stories, multimedia and video.

Series One  
 Series Two

Series Three



### GCF LearnFree.org

Hundreds of high-quality illustrated articles and videos focusing on technology, job training, reading, and math skills, produced by the Goodwill Community Foundation.

Apple  
 Career  
 Computers  
 Digital Lifestyle  
 Everyday Life  
 Google

Information Savvy  
 Internet Basics  
 Job Development  
 Math Basics  
 Office 2000  
 Office 2003

Office 2007  
 Office 2010  
 Office XP  
 OpenOffice  
 Reading  
 Social Media



### UNESCO's ICBA Electronic Library

Teachers' resources from the UNESCO International Institute for Capacity Building in Africa.

Primary Mathematics in English  
 Primary Science in English  
 Secondary Science in English

# Locally served Self-learning resources, contd.



## TED Talks

TED (Technology, Entertainment, Design) is an invitation-only event where the world's leading thinkers and doers gather to find inspiration.

This collection includes nearly 2000 short videos on thought provoking topics from several years worth of events around the world.



## Open Access Odia Books

All SEEDS OAOB is a not-for-profit project, initiated by National Institute of Technology, Rourkela, Srujanika, Bhubaneswar and Pragati Utkal Sangh, Rourkela. It disseminates the available information in Odia language treasured in our local libraries and individual collections. The project is made available online to millions of readers worldwide. An open access repository containing resources pertaining to Odia literature and culture, OAOB provides free access to researchers, scholars, historians, librarians, and the general public at all point in time.



## विकिपीडिया ଓଡ଼ିଆ ଭିକିପିଡ଼ିଆ

विकिपीडिया दुनिया के सबसे बड़े विश्वकोश, उपयोगकर्ताओं के लिए बनाया है, मॉडरेट, और संपादित उपयोगकर्ताओं द्वारा होता है। इस विश्वकोश चित्र के साथ 100,000 से अधिक लेख कहीं भी है और स्वतंत्र रूप से किसी के लिए उपलब्ध है। यह पूरी तरह से खोजा संस्करण Kiwix द्वारा प्रदान किया गया। ଓଡ଼ିଆ ଭିକିପିଡ଼ିଆ ଏକ ଖୋଲା ଜ୍ଞାନକୋଷ

विकिपीडिया  
एक मुक्त ज्ञानकोश

[english wikiversity](#)  
[english wikivoyage](#)  
[hi.wikiquote](#) Quotes in Hindi  
[or.wikipedia](#) encyclopedia in Odia  
[Odia dictionary/wiktionary](#)



## Great Books of the World

A searchable, categorized selection of over 400 of the most beloved and respected books from around the world, collected from [Project Gutenberg](#).

[Top 100 Favorites](#)  
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[Adventure \(24 titles\)](#)  
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[Mystery \(17 titles\)](#)  
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[Poetry \(41 titles\)](#)  
[Romance \(35 titles\)](#)  
[Science Fiction \(27 titles\)](#)  
[Short Stories \(25 titles\)](#)




## Hesperian Health Guides

Easy to understand, practical, accurate, and heavily illustrated guides on health topics that for remote areas where access to medical personnel and facilities is limited.




# Flipped model of learning and experimentation



**Sustainable Economic and Educational Development Society**  
*Sowing seeds of change since 1993*  
(A tax-exempt US non-profit dedicated to equitable development)

**Education Without Borders (EWB)**  
On your intranet device, browse to <http://seedsweb:8083>

HOME ABOUT LOCAL CONTENT  Search




**SEEDS**

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**Khan Academy (Video lessons & Exercises)**  
**Learn with Kolibri System**  
**Learn English Course1**  
Learn English on Web (needs internet)  
Top 4 tricks to crack competitive exams

**Competitive Exams After Graduation For Jobs**  
**List of Entrance and Competitive Exams For Further Studies After Class 12**  
**A list of Competitive Exams for Graduates**  
**Online Skills Training**

 search seeds




**odia.org**

**SEEDS Odia Language**

Following SEEDS curated educontent is acknowledged as sourced from odia.org:


<a href="#">How to Learn Odia</a>	<a href="#">dhwani-Unicode</a>	<a href="#">Audio Books</a>
<a href="#">Study materials</a>	<a href="#">Odia Books</a>	<a href="#">Editorials</a>
<a href="#">Software</a>	<a href="#">Odia Text Books</a>	<a href="#">Articles</a>
<a href="#">Odia Web Keypad</a>	<a href="#">Odia Magazines</a>	
<a href="#">Web Dhwani - Odia</a>	<a href="#">Sanskrit Slokas</a>	

 search odia org



**Toys from Trash**

Collection of Hindi videos. Create toys from household items.



**Blockly**

Professional programmers create programs by writing lines of text for a computer to interpret. This is the most efficient process for creating large programs, but it can be hard for a beginner to learn programming concepts and programming syntax simultaneously. As a beginner, you can get started with a visual programming tool, which lets you create programs without getting stuck over syntax rules. Google Blockly is a good tool for this purpose since it runs online and can generate actual JavaScript or Python code.



## Math Expression

Math tutoring materials that include Math videos, Study Tips, Practice Questions and Step-by-Step solutions. For each lesson, read the study tips carefully and take note of the important concepts/ideas before watching the video. These tips will guide you in your math thinking strategies.



## MedlinePlus Medical Encyclopedia

More than 4,000 cross-referenced medical articles from the U.S. National Library of Medicine and the National Institutes of Health. Includes comprehensive illustrations and photographs.

A-Ag	Ah-Ap	Aq-Az	B-Bk	Bl-Bz	C-Cg	Ch-Co
Cp-Cz	D-Di	Dj-Dz	E-Ep	Eq-Ez	F	G
H-Hf	Hg-Hz	I-In	Io-Iz	J	K	L-Ln
Lo-Lz	M-Mf	Mg-Mz	N	O	P-Pl	Pm-Pz
Q	R	S-Sh	Si-Sp	Sq-Sz	T-Tn	To-Tz
U	V	W	X	Y	Z	0-9

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## Music Theory

Comprehensive music theory lessons and exercises to begin your journey into the realm of music.



## OLPC Educational Packages

A collection of educational materials consolidated by the OLPC project.

[Storybooks](#)  
[Web Design](#)  
[Wikibooks](#)  
[Wikislice General](#)  
[Wikislice Animals](#)  
[WikiHow](#)  
[Biology](#)

[Wikislice Chemistry](#)  
[Wikislice Physics](#)  
[Nature Photographs](#)  
[World Culture](#)  
[How to Build Musical Instruments](#)  
[y-Bee-See - An interactive ABC picturebook](#)  
[A compact multilingual translation dictionary](#)



## PhET(Older)

PhET Interactive Simulations, a project at the University of Colorado Boulder, is a non-profit open educational resource (OER) project founded in 2002 by Nobel Laureate Carl Wieman. PhET began with Wieman's vision to improve the way science is taught and learned. Their stated mission is "To advance science and math literacy and education worldwide through free interactive simulations."

# Resources, contd.



## CK-12 Textbooks

High quality textbooks on STEM (Science, Technology, Engineering and Math) from ck12.org.

- Algebra Explorations, Pre-K through Grade 7
- Basic Algebra
- Basic Algebra Concepts
- Algebra 1
- Algebra I Teacher's Edition
- Algebra 2
- Basic Geometry
- Basic Geometry, Teacher's Edition
- Basic Geometry Concepts
- Geometry
- Geometry, Teacher's Edition
- CK-12 Trigonometry Concepts
- Trigonometry
- Trigonometry, Teacher's Edition
- Basic Probability and Statistics - A Short Course
- Basic Probability and Statistics - A Full Course
- CK-12 Basic Probability and Statistics Concepts - A Full Course
- CK-12 Advanced Probability and Statistics Concepts
- Probability and Statistics (Advanced Placement)
- Advanced Probability and Statistics Teacher's Edition
- Calculus
- Calculus, Teacher's Edition
- Basic Physics
- CK-12 People's Physics Concepts
- Physics - From Stargazers to Starships
- 21st Century Physics
- Chemistry
- Chemistry, Teacher's Edition
- Chemistry - Labs & Demos
- Biology
- Biology Workbook
- Biology, Teacher's Edition
- Life Science for Middle School
- Earth Science Concepts
- Earth Science for Middle Schools
- Earth Science for High Schools
- Engineering - An Introduction for High School



## MIT Scratch

Scratch is a programming language that makes it easy to create your own interactive stories, animations, games, music, and art.

As young people create and share Scratch projects, they learn important mathematical and computational ideas, while also learning to think creatively, reason systematically, and work collaboratively. Scratch is designed especially for ages 8 to 16, but is used by people of all ages.



WIKIPEDIA  
The Free Encyclopedia

## Wikipedia for Schools

This curated selection of articles from Wikipedia can be used offline by school children around the world. 6000 articles, 26 million words and 50,000 images make Wikipedia for Schools bigger than Harry Potter, the Lord of the Rings and the Chronicles of Narnia put together!

- Art
- Business Studies
- Citizenship
- Countries
- Everyday life
- Design and Technology
- Geography
- History
- IT
- Language and Literature
- Mathematics
- Music
- People
- Portals
- Religion
- Science



## Interactive World Map

Browse the world from the global to the local with this interactive and searchable world map from OpenStreetMaps and the XSCE project.

# Resources, contd.



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## Power typing

Full lessons and exercises to learn touch typing or improve your typing skills. Include many entertaining typing games, tests and practice drills.



## Practical Action

Practical Action has been using appropriate technology to help people in the developing world for more than four decades. The focus is on helping local people do what they already do even better. Here you will find broad knowledge bank of technologies that you can replicate.

[Agriculture](#)  
[Construction](#)  
[Crop processing](#)  
[Disaster response, mitigation and rebuilding](#)  
[Energy](#)  
[Environment and adaptation to climate change](#)  
[Fisheries](#)  
[Food processing](#)

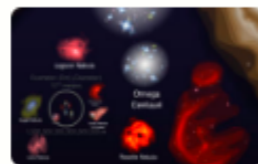
[Information, communication, learning](#)  
[Livestock](#)  
[Manufacturing, handicraft, process industries](#)  
[Natural resources management](#)  
[Social and economic development](#)  
[Transport and infrastructure](#)  
[Waste management](#)  
[Water and sanitation](#)

 Search Practical Action

## Radiolab

Radiolab is an audio show about curiosity. Where sound illuminates ideas, and the boundaries blur between science, philosophy, and human experience.

Radiolab is produced by WNYC, a public radio station in New York City.



## Scale of the Universe

Explore the universe from the fantastically small to the awesomely large with this interactive demonstration of the size of things.

This module requires Flash or a Flash-capable browser like Chrome.



## SEEDS



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[Khan Academy \(Video lessons & Exercises\)](#)  
[Learn with Kolibri System](#)  
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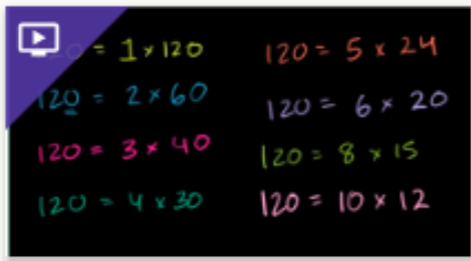
# Kolibri educational sub-system & materials

  **चैनल** अनुशासित किया गया

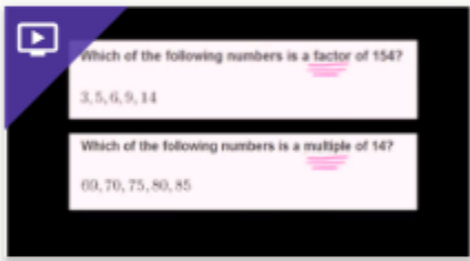
**Channels** > [Khan Academy \(hi\)](#) > [गणित](#) > [कक्षा 6 \(भारत\)](#) > [गुणनखंड और गुणज](#) > [गुणनखंड और गुणज](#)

## गुणनखंड और गुणज

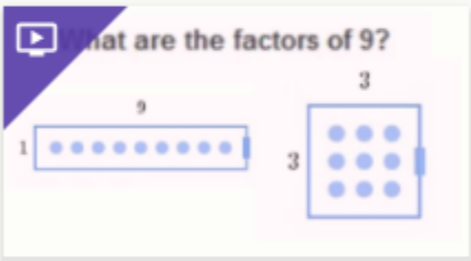
आइए गुणनखंड और गुणज के बारे में कुछ अधिक सीखते हैं!




संख्या के गुणनखंड ज्ञात करना




गुणनखंड और गुणज ज्ञात करना



गुणनखंड ज्ञात करना



गुणनखंड युग्म



गुणनखंड और गुणज को पहचानें

**MIT Blossoms**

**Pratham Books' StoryWeaver**

**Touchable Earth (en)**

# Khan Academy without Internet!



Math	Early math	Review of shapes, operations and large numbers	Line of symmetry	Intro to reflective symmetry Introduction to the concept of an "axis of symmet
Science	Class 5 (India)		Rotational symmetry	Identify lines of symmetry Practice identifying lines of symmetry on shapes
Economics and finance	Class 6 (India)	Area and perimeter - Part 1		
Arts and humanities	Class 7 (India)	Parts and wholes		
Computing	Class 8 (India)			

Math	Physics	Introduction to electrical engineering	Circuit elements The basic elements of circuit design are components (resistors, capacitors, and inductors), and...
Science	Chemistry	Circuit analysis	Resistor circuits Series and parallel resistors, delta-wye networks, and the voltage divider
Economics and finance	AP Chemistry	Amplifiers	DC circuit analysis Determine the state of a DC circuit using Kirchhoff's Laws, node voltage method, mesh or loop...
Arts and humanities	Organic chemistry	Semiconductor devices	Natural and forced response Circuits containing capacitors and inductors change with time. The natural and forced response of...
Computing	Biology	Signals and systems	AC circuit analysis If we limit ourselves to input signals shaped like sines or cosines, we can develop a whole AC...
Test prep	Cosmology and astronomy	Home-made robots	
Partner content	Electrical engineering	Lego robotics	
College, careers, and more	Health and medicine	Reverse engineering	
MAP Recommended Practice			

# Setting up 3-computer elibrary/ e-school in a village

1. An enthusiastic, tech-savvy local person (teacher or learner)
2. Server computer (1)
3. 4- or 8 -port Router/Switch with Wifi (1)
4. Optional internet access/subscription/dongle
5. Client computers -- e.g. raspberry Pi (2)
6. Display monitors (2)
7. TV/monitor with HDMI (1)
8. Keyboard-mouse combos (3)
9. Headset/headphones (3)
10. Power cords and ethernet cables to hook them and power up
11. Optional: extra hard-disk, internet camera, printer, etc.
12. Any number of mobile devices (phones and tablets that connect over wifi)

To help you get a sense of the cost of components, I did some research on Amazon-India and found these deals on 8/19/2018:



[Quantum 4 Port USB Hub with Switch and LED Indicator -Color may vary\(Black or White\)](#) **Rs.169.00**



[MTT® \[2 - Pack\] 1.2 meter Premium Micro USB to USB Cable High Speed USB 2.0 Male A to Micro B for Android Smartphones \(2 PACK BLACK\)](#) **Rs.399.00**



[Zebronics 15.6 inch \(39.6 cm\) LED Monitor - Full HD with VGA, HDMI Ports - ZEB-A16FHD LED \(Black\)](#) **rs 3,425.00**



[iBall Rocky Over-Ear Headphones with Mic](#) **rs. 469.00**



[Prolink PRS1240 - Wireless-N 4-Port ADSL2+ Modem/300Mbps Router](#) **rs. 900.00**



[Neo Wired Multimedia Keyboard and Mouse Combo \(Black\)](#) **rs.449.00**



“ It is when  
you give  
of your  
that you

"We rise  
by lifting  
others."

-Robert Ingersoll



YOU CAN  
MAKE A  
DIFFERENCE

I WILL I WILL I WILL I WILL I WILL I WILL I WILL I WILL

Investment in  
knowledge pays the best  
interest.

Benjamin Franklin

