

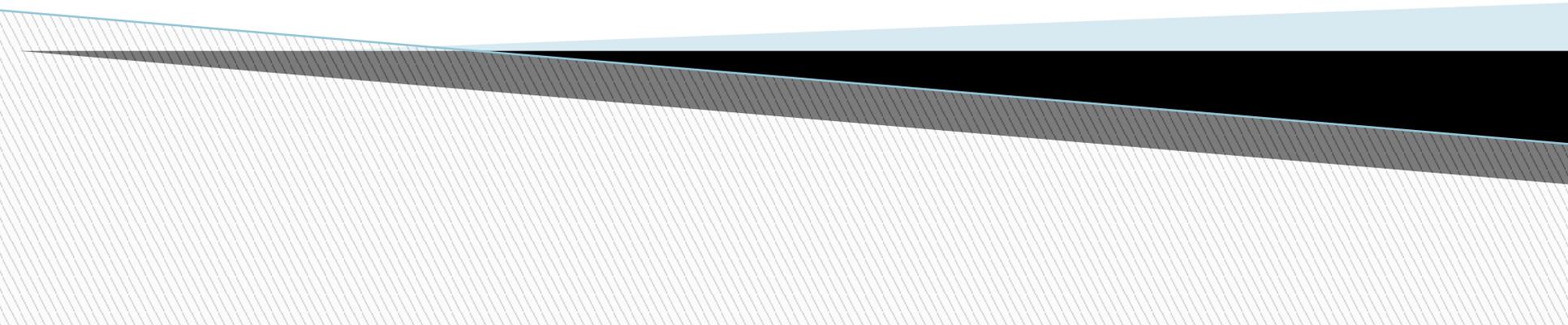
USING ICT FOR INNOVATION IN EDUCATION

Journey of National ICT Awardee

Sandeep, Haryana
2014

Primary Teacher,

Government Model Sanskriti Primary School, Fatehpur, Sector
20, Panchkula, Haryana



Birth / Education / Family Background

- Born on 20 July 1979
- Village – Gorchhi, Hisar
- 25 kms from Hisar, 170 kms from Delhi
- Father – Veterinary Surgeon, Haryana Govt.
- Various schools in Isharwal, Siwani and later on Hisar
- Vishwas school, Urban Estate II, Hisar
- Jat College, Hisar
- IGNOU, Delhi
- Diploma in Education from GETTI, Loharu, Bhiwani



Service Profile

Joined Haryana Govt. Education Deptt. on 21/12/2004

Name of the school	From	To
GGPS Daya, Hisar	21/12/2004	07/08/2013
GPS Daya, Hisar	08/08/2013	19/08/2015
GHS, Hallomajra, Chandigarh	20/08/2015	16/04/2020
GPS Daya, Hisar	17/04/2020	25/04/2021
GMSPS, Fatehpur, Sec 20, Panchkula	26/04/2021	Till date

Teaching Journey Started

- Daya is a village situated 18 kms away from the Hisar district of Haryana
- Its population is approximately 4000 and it consists mainly of backward community comprising 40% SC, 25% BC.
- Main occupation – Farming, labourers

First school

Only 2 rooms

No Electricity in day

Class Under the tree

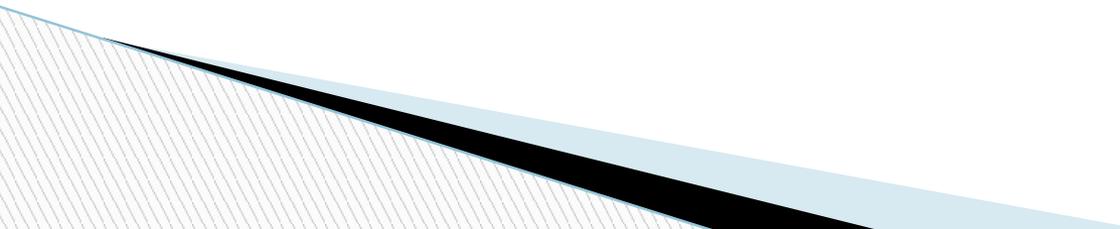


Learn to read

- Listening
- Speaking
- Reading
- Writing

L S R W

The basic step is **LISTENING.**



AETIOLOGY

- Lack of teachers
- Absenteeism of students
- Slow learning children
- Absenteeism of teachers

It is known fact that not only children but also we all learn to speak, understand by the way of listening repeatedly, then correlate with the surroundings, recognize the thing and learn.

First step towards ICT

Viewing the problems lots of teachers are facing in dealing with teaching of language subjects specially English, I have decided to record lessons of curriculum books of Primary classes.

How to record



CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT

AETIOLOGY	INNOVATION	EFFECT
Teacher less class, slow learners, repetition	Specially recorded Audio Cassettes	e-tutor

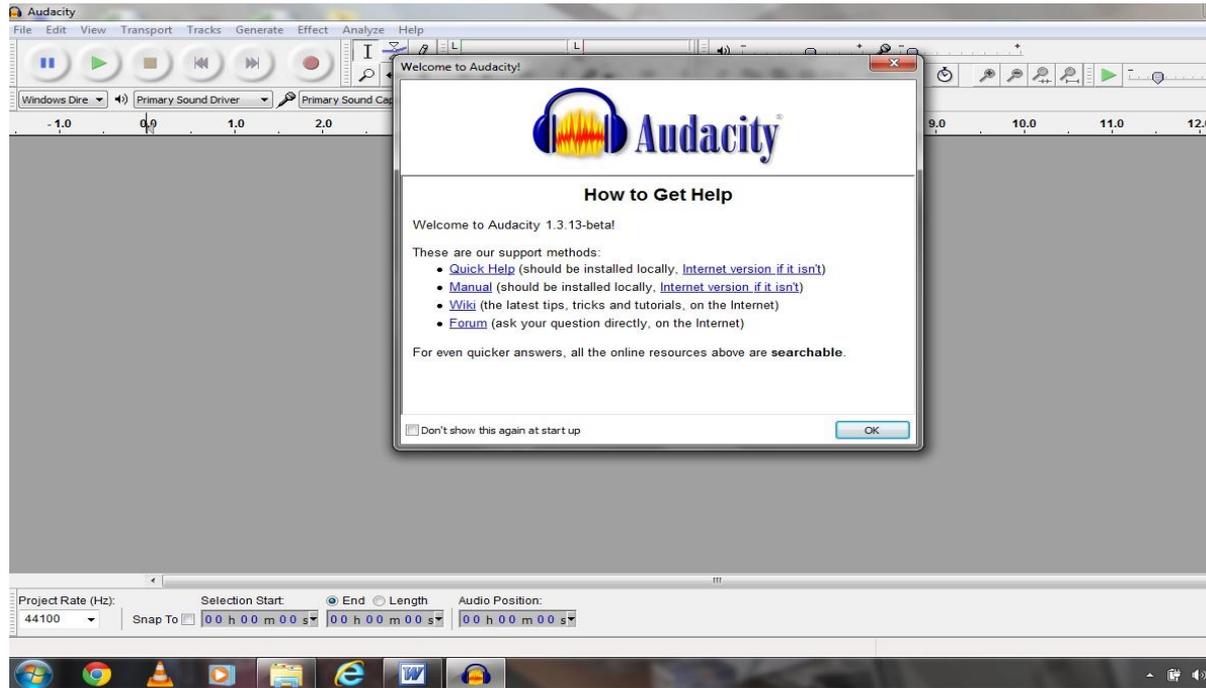


CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT



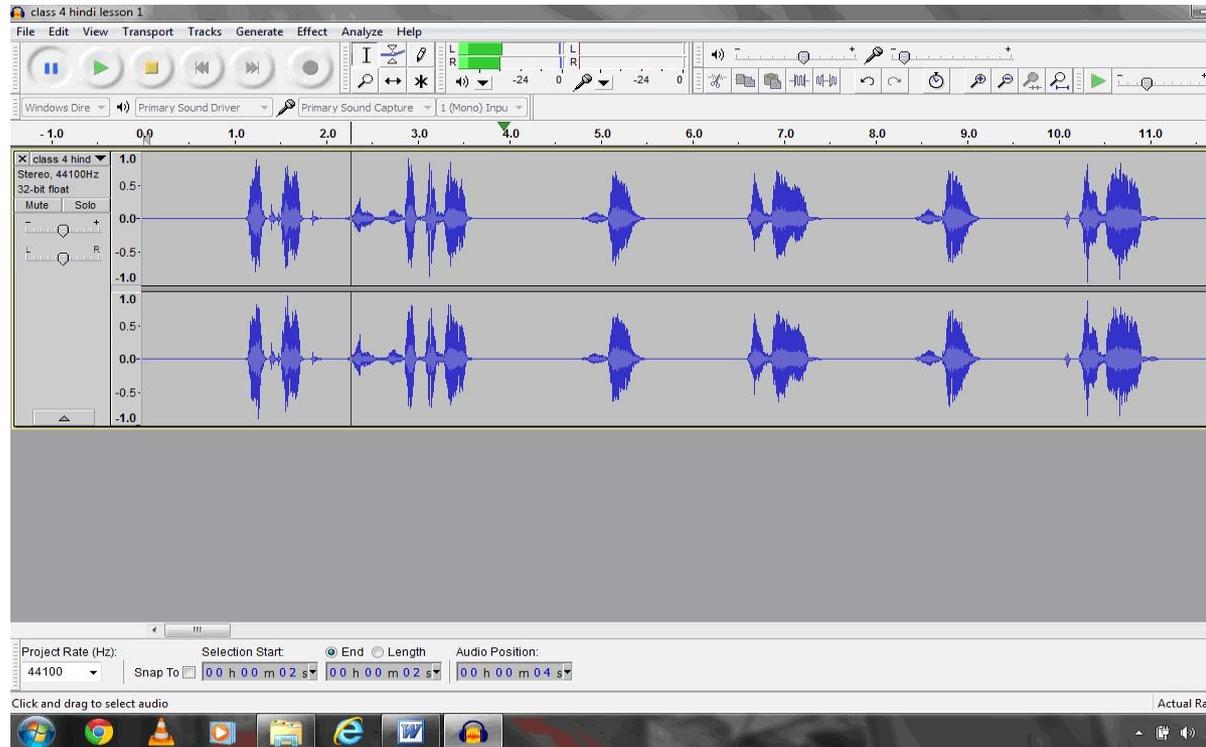
Computer introduced to students at earlier stage as soon I became aware of ICT and its applications for teaching and learning.

CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT



The Software behind all the Recording, Editing, and hope for better future of teaching and learning with Information Communication Technology's advancement.

CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT



I have started recording Audio files, lessons etc on my laptop. The audio nods seem like this and can be edited in a number of ways

CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT

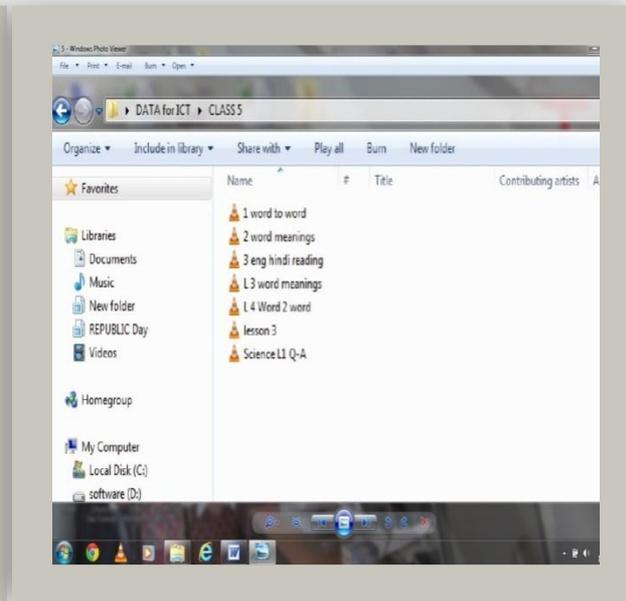
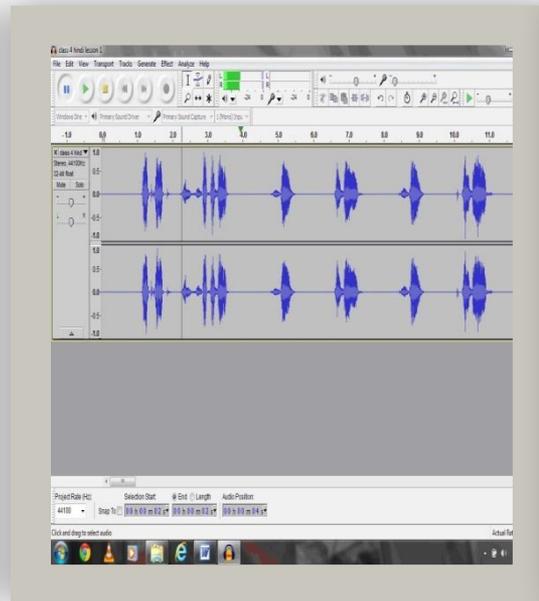
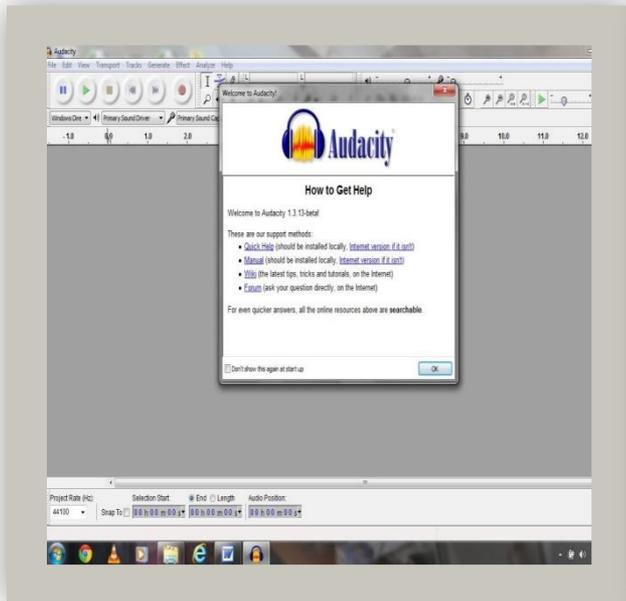
सीखने समझने
के लिए रिकार्डिड
पाठ का प्रयोग

फायदे :-

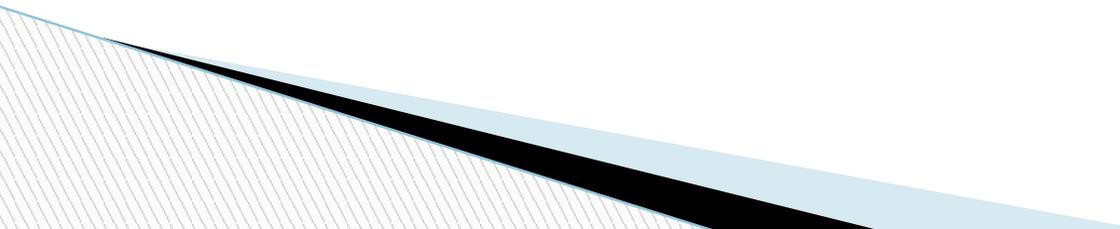
- बच्चे Model Lesson को सुनेंगे
- बच्चों और अध्यापकों के लिए सहायक
- पाठ की अनेकों बार पुनर्आवृत्ति संभव
- अध्यापक का पूरा ध्यान कक्षा पर
- कम अध्यापकीय स्कूलों के लिए कारगर
- अध्यापक की अनुपस्थिति में भी शिक्षण संभव

CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT

AETIOLOGY	INNOVATION	EFFECT
Entry of Laptop	Use of 'Audacity' software to record lessons	Better quality lessons for communication with the students



Benefits of this project

- ▣ **Great help to Teachers**
 - ▣ **Listening to model lesson**
 - ▣ **Repetition can be done**
 - ▣ **Patience is maintained**
 - ▣ **Full attention of Teacher on class**
 - ▣ **Very helpful in schools with inadequate number of teachers**
 - ▣ **Help in absence of Teacher**
- 

CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT

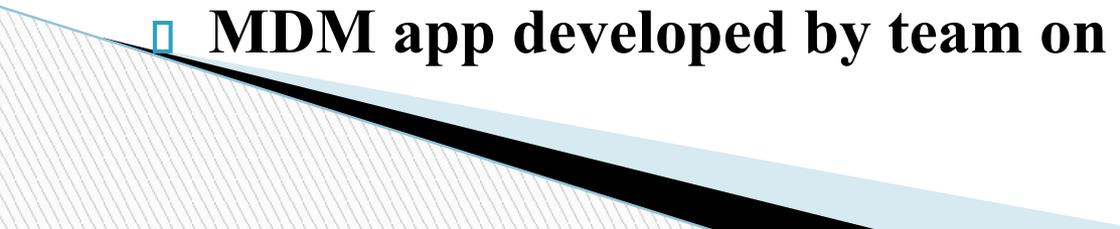
AETIOLOGY	INNOVATION	EFFECT
Advent of EDUSAT DTH and the e classes with children unaware of the daily content	Developed a format of contents to be displayed on blackboard	Students came well prepared and that led to better understanding



Date: _____		Day: _____		
Period and Time	Class	Subject	Topic	Class In Charge Signature
1st 08:55 to 09:30				
2nd 09:30 to 10:05				
3rd 10:05 to 10:40				
4th 10:40 to 11:15				
If Saturday; Bal Film Name : _____				

To maximize the use of available **ICT** resource

Mid Day Meal Record using Excel

- ❑ **Not any prescribed method of record keeping**
 - ❑ **Started to explore the possibilities**
 - ❑ **Learned EXCEL software**
 - ❑ **Designed MDM Record register**
 - ❑ **Named it after my Daughter MEHAK**
 - ❑ **Very helpful in schools for recordkeeping**
 - ❑ **More than 5000 schools uses this format**
 - ❑ **MDM app developed by team on this basis**
- 

Got COPYRIGHT for MDM Register

  **Extracts
from the Register
of Copyrights**

Dated: 03/08/2018

1. Registration Number:	L-77077/2018
2. Name, address and nationality of the applicant:	SANDEEP PACHAR, HOUSE NO. 9, SHYAM VIHAR, KANHAJI ROAD, HISAR, HARYANA-125001 INDIA
3. Nature of the applicant's interest in the copyright of the work:	AUTHOR
4. Class and distribution of the work:	LITERARY DRAMATIC WORK
5. Title of the work:	MID DAY SCHOOL RECORD REGISTER
6. Language of the work:	ENGLISH, HINDI
7. Name, address and nationality of the author and if the author is deceased, date of the deceased:	SANDEEP PACHAR, HOUSE NO. 9, SHYAM VIHAR, KANHAJI ROAD, HISAR, HARYANA-125001 INDIA
8. Whether the work is published or unpublished:	UNPUBLISHED
9. Year and country of first publication (in name, address and nationality of the publisher):	N.A.
10. Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers:	N.A.
11. Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any:	SANDEEP PACHAR, HOUSE NO. 9, SHYAM VIHAR, KANHAJI ROAD, HISAR, HARYANA-125001 INDIA
12. Names, addresses and nationalities of other persons, if any, authorized to assign or license rights comprising the copyright:	SANDEEP SINGH, HOUSE NO. 9, SHYAM VIHAR, KANHAJI ROAD, HISAR, HARYANA-125001 INDIA
13. If the work is an artistic work, the location of the original work, including name, address and nationality of the person in possession of the work. In the case of an architectural work, the year of completion of the work should also be stated:	N.A.
14. If the work is an artistic work, whether it is registered under the Designs Act 2002 if yes give details:	N.A.
15. If the work is an artistic work, whether it is registered as a design under the Designs Act 2002 (if not then it has been applied for a design) (if not registered, process and, if yes, the number of times it is reproduced):	N.A.
16. Remarks, if any:	

File No. : CH/2018/2018
Date of Registration : 03/08/2018
Date of Receipt : 03/08/2018


DEPUTY REGISTRAR OF COPYRIGHTS
Copyright Office, Government of India


Copyright No :- L77077/2018 dated 03/08/2018

https://youtu.be/HCXhRE_tcY8

Designed for Himachal Pradesh

MID DAY MEAL

Cash Book

cum

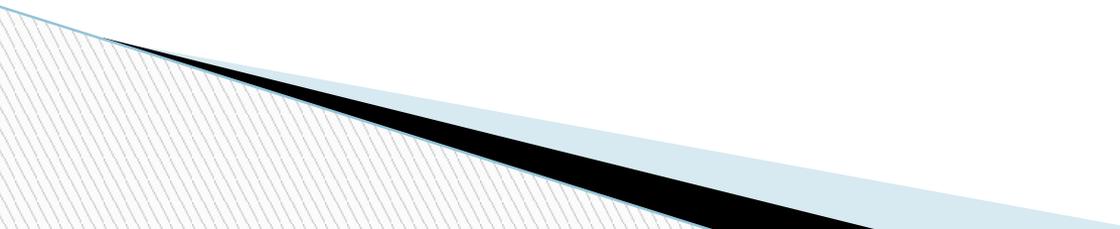
Ration Record Register

No. 244001

Education Department
HIMACHAL PRADESH

Year : _____

Need for some special device for morning assembly and connection with DTH TV

- Need some electronic device combined with amplifier to cater need in morning assembly as well as for connection with existing DTH television**
 - Found Audix-50**
 - Assembled it on box with speaker and UPS backup**
- 

HARSHA

- **Amplifier**
- **Cordless mike**
- **2 ports for extra mikes**
- **CD/DVD/MP3/DIVX player**
- **USB Player**
- **AUX in**
- **2.1 channel output**
- **240V AC**
- **12V DC**
- **110V AC**
- **4, 8, 16 ohms output**
- **UPS**
- **1 hour plus UPS backup**
- **Charging time 4-5 hrs approx**



Morning Prayer Sequel

MORNING PRAYER SEQ.

GAYATRI MANTRA

PRAYER

NATIONAL ANTHEM

NATIONAL SONG

PATRIOTIC SONG

NEWS, YOGA Etc.

CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT

AETIOLOGY	INNOVATION	EFFECT
Morning Assembly	"HARSHA" unfolded	Regular prayers, e tutorials, personality development of children



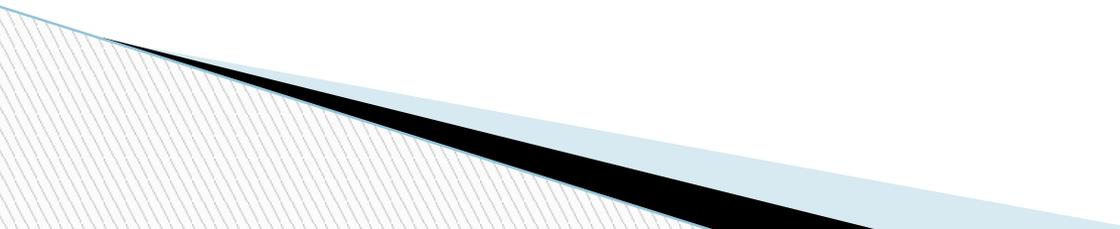
<http://youtu.be/j5Lhb8SQ-sQ>

Morning assembly in some schools

- <https://youtu.be/j5Lhb8SQ-sQ>
- <https://youtu.be/tOqeK16jC4Q>
- <https://youtu.be/2uHhaxoihx0>
- <https://youtu.be/8La5XqXO8ps>



Review of Morning Assembly

- <https://www.youtube.com/shorts/osh9o8wmBJw>
 - <https://youtu.be/JyhhJBFaDbM>
- 

EDUSAT TV turned into smart TV

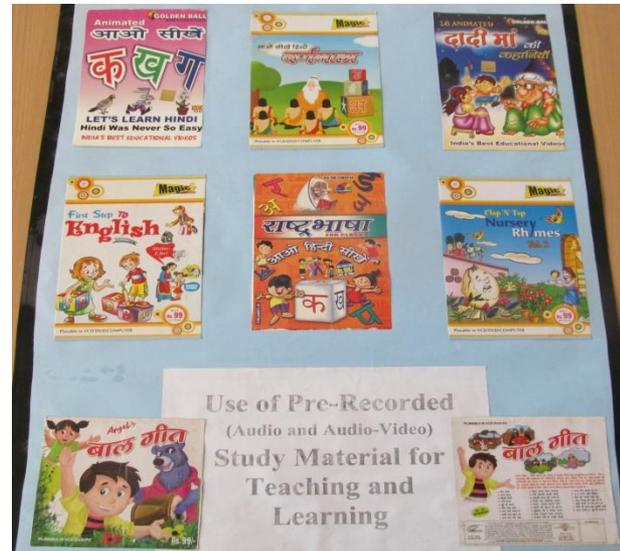
AETIOLOGY	INNOVATION	EFFECT
EDUSAT Signal Failure	Use of DVD's using DTH TV and HARSHA	Enhanced and enriched learning



To maximize the Use of available **ICT resource**

EDUSAT TV turned into smart TV

AETIOLOGY	INNOVATION	EFFECT
EDUSAT Signal Failure	Use of DVD's using DTH TV and HARSHA	Enhanced and enriched learning



To maximize the Use of available **ICT** resource

CHRONOLOGICAL ORDER OF THE INNOVATIONS AND THEIR EFFECT

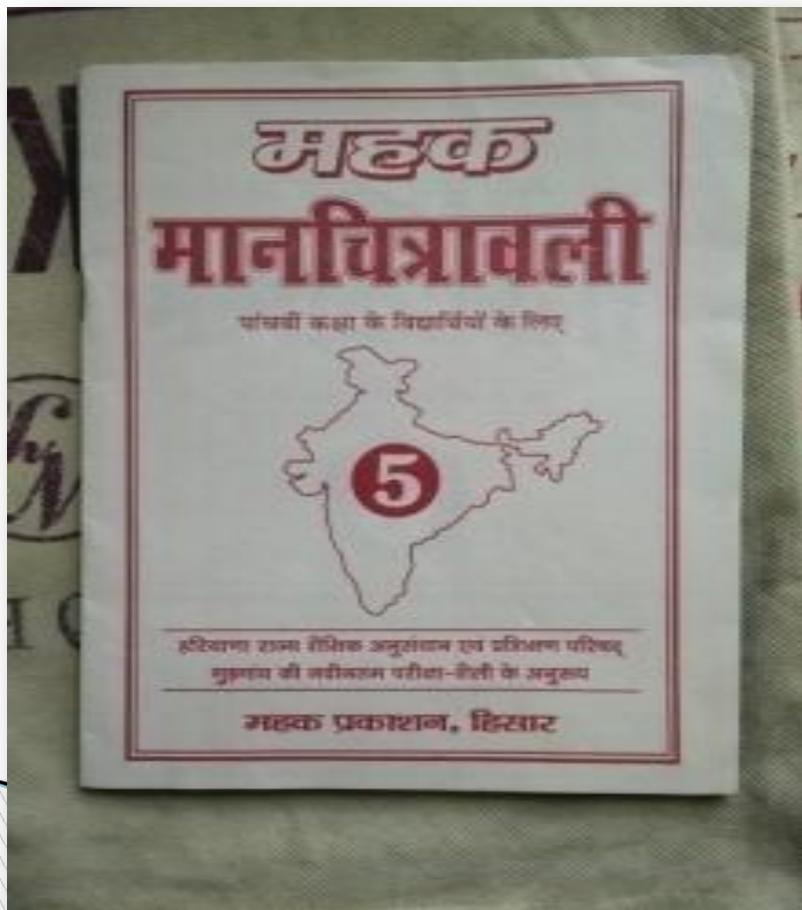
AETIOLOGY	INNOVATION	EFFECT
EDUSAT Signal Failure	Use of DVD's using DTH TV and HARSHA	Enhanced and enriched learning



To maximize the Use of available **ICT** resource

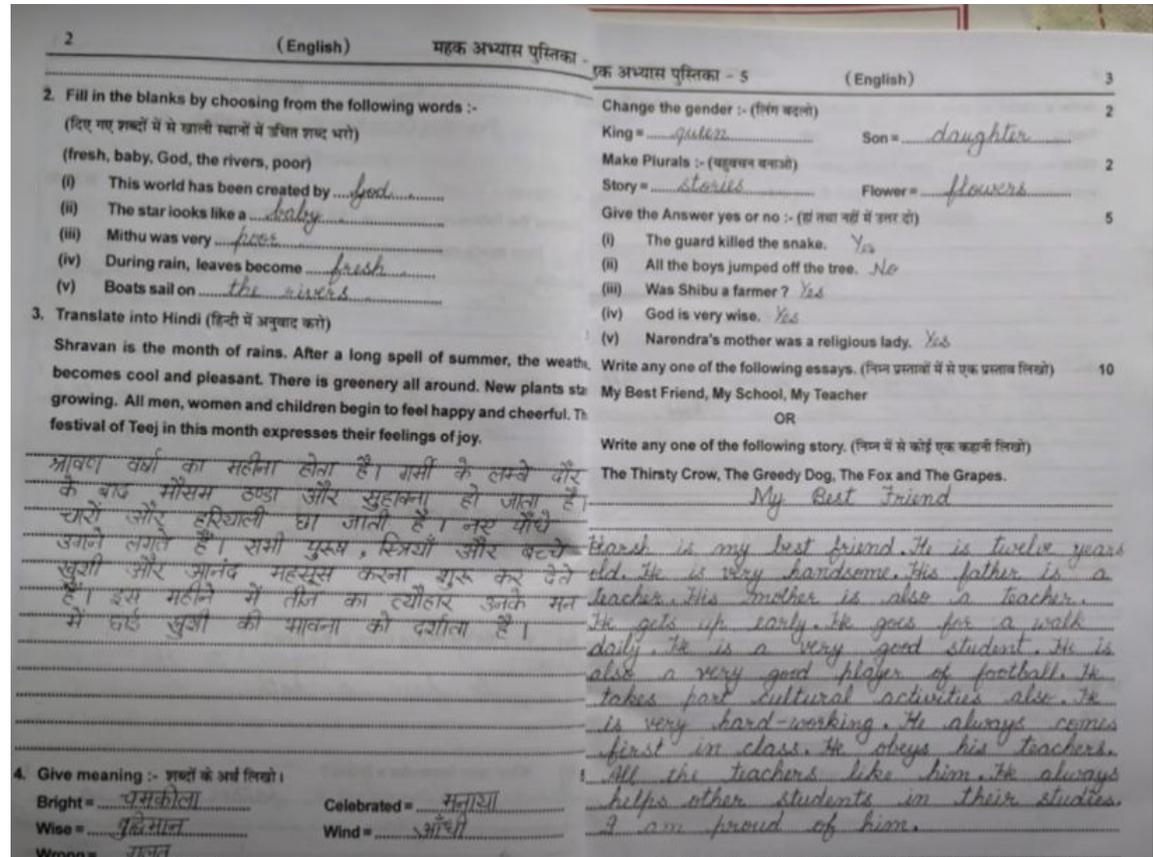
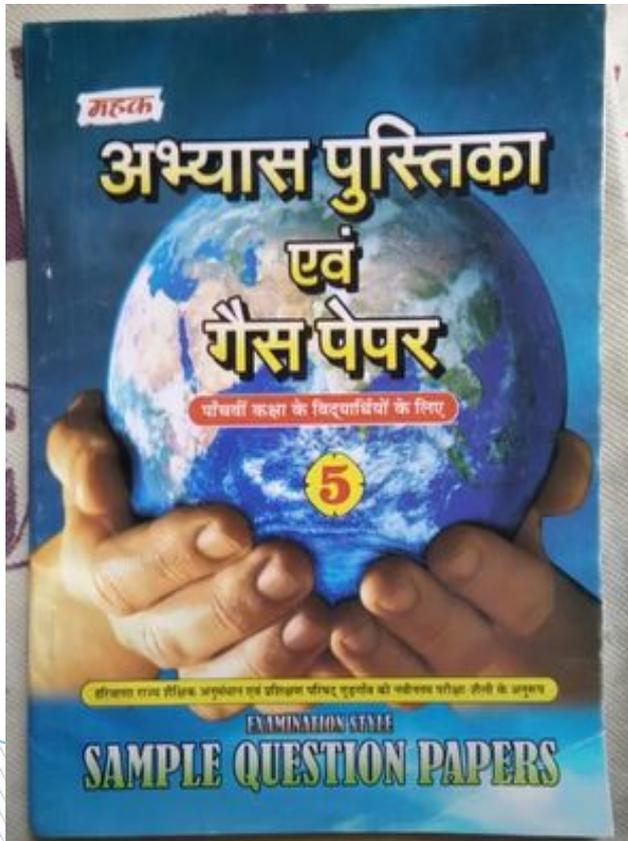
SOME OTHER INNOVATIONS

AETIOLOGY	INNOVATION	EFFECT
Map that can cater to the needs of 5th class students	'Mehak Maanchitravali' with the use of PageMaker software.	Better understanding by the students



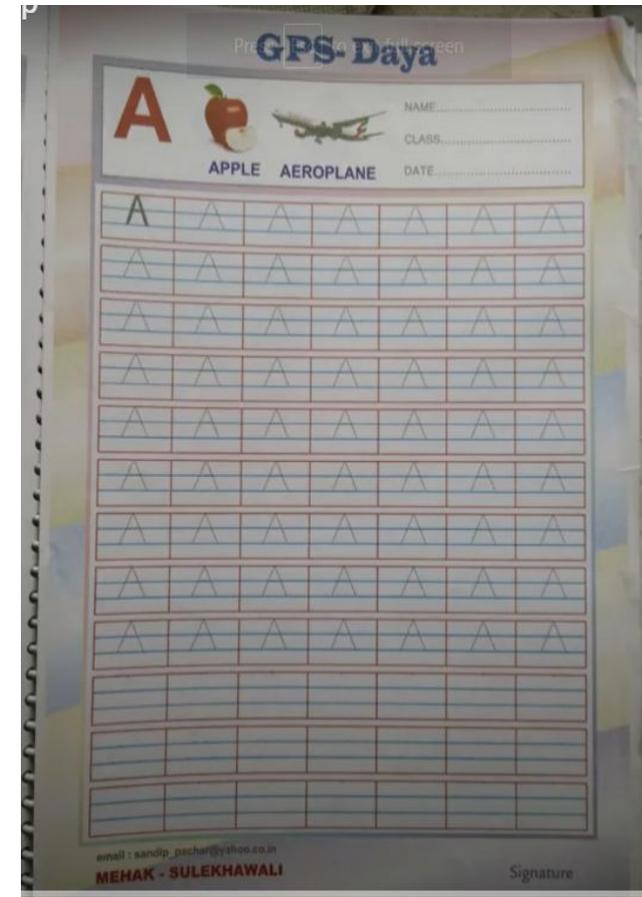
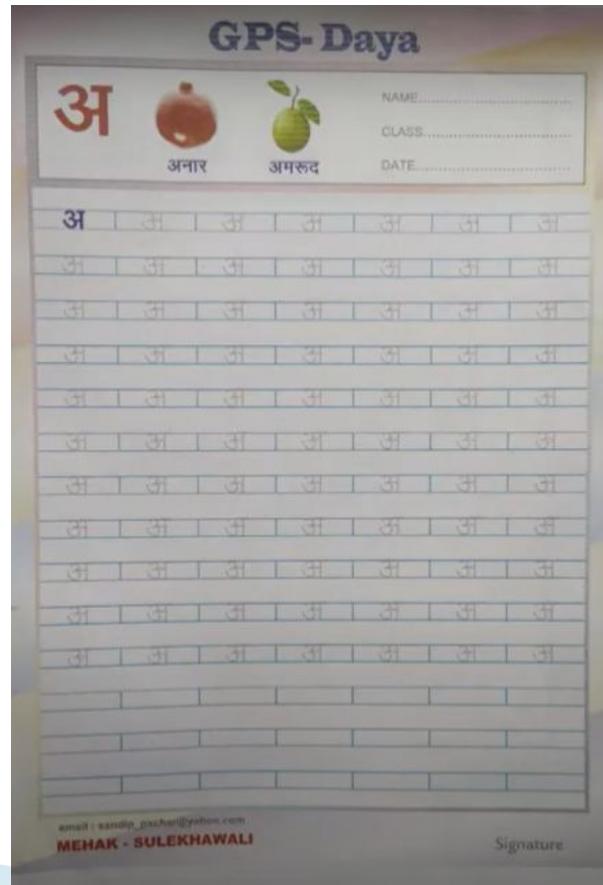
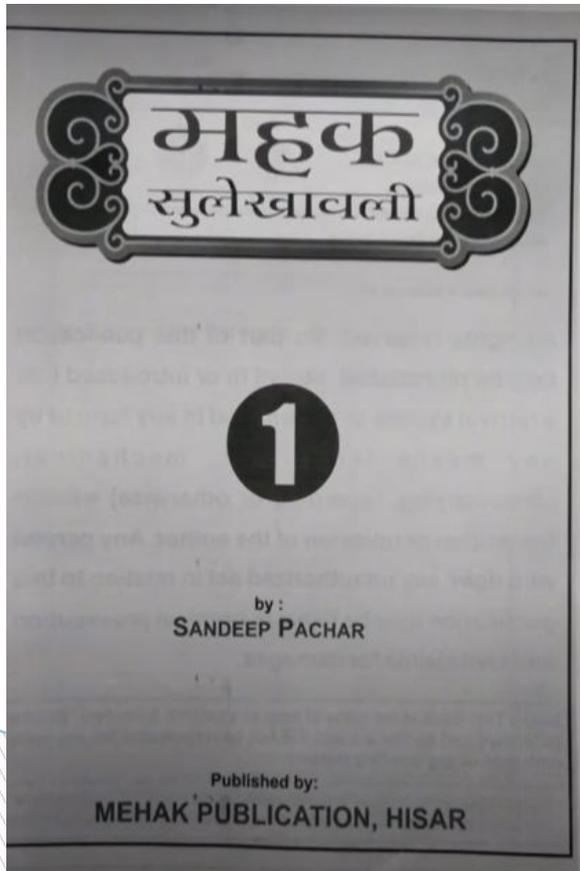
SOME OTHER INNOVATIONS

AETIOLOGY	INNOVATION	EFFECT
Practice for Exam Poor Handwriting	'Sample Question papers' with the use of PageMaker software.	Students motivated to improve handwriting and also to score good marks in exam



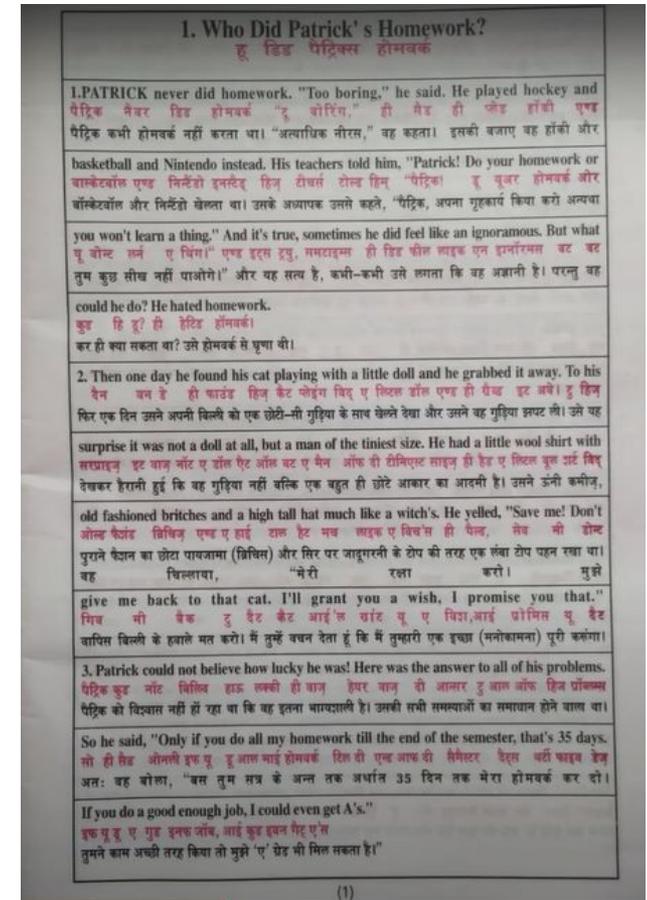
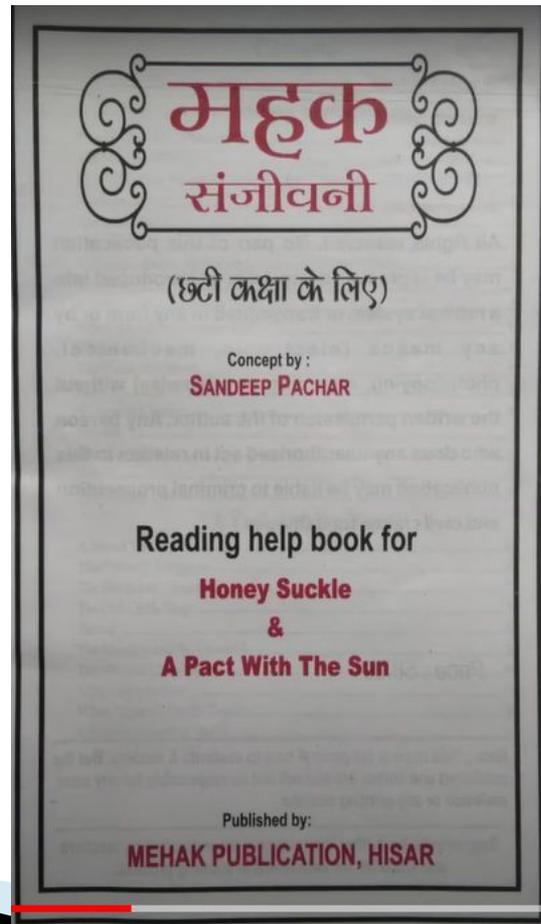
SOME OTHER INNOVATIONS

AETIOLOGY	INNOVATION	EFFECT
Poor Handwriting of students	Cursive writing workbooks with the use of PageMaker and coral draw software.	Students motivated to improve handwriting at elementary level



SOME OTHER INNOVATIONS

AETIOLOGY	INNOVATION	EFFECT
Students unable to read English	Pronunciation book for help them learn pronunciation in their mother tongue	Students learned a lot, This book was used using audio lesson



SOME OTHER INNOVATIONS

AETIOLOGY	INNOVATION	EFFECT
Students unable to read English	Pronunciation book for help them learn pronunciation in their mother tongue	Students learned a lot, This book was used using audio lesson

1. PATRICK never did homework. "Too boring," he said. He played hockey and

पैट्रिक नेवर डिड होमवर्क "टू बोरिंग," ही सैड ही प्लेड हॉकी एण्ड
पैट्रिक कभी होमवर्क नहीं करता था। "अत्याधिक नीरस," वह कहता। इसकी बजाए वह हॉकी और

basketball and Nintendo instead. His teachers told him, "Patrick! Do your homework or

बास्केटबॉल एण्ड निन्टेंडो इनस्टेड हिज टीचर्स टोल्ड हिम् "पैट्रिक! दू यूअर होमवर्क ओर
बास्केटबॉल और निन्टेंडो खेलता था। उसके अध्यापक उससे कहते, "पैट्रिक, अपना गृहकार्य किया करो अन्यथा

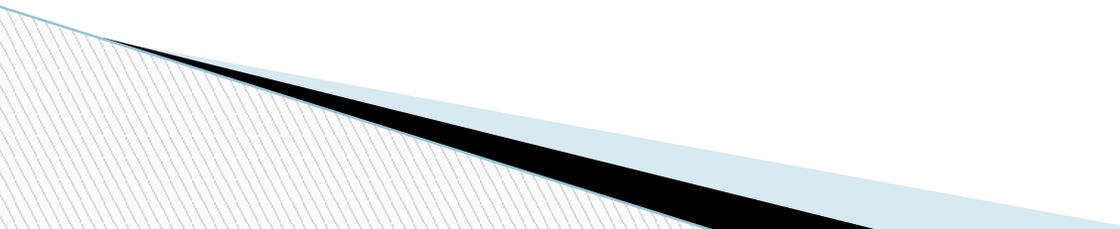
you won't learn a thing." And it's true, sometimes he did feel like an ignoramous. But what

यू वोनट लर्न ए थिंग।" एण्ड इट्स ट्रु, समटाइम्स ही डिड फील लाइक एन इग्नॉरमस बट बट
तुम कुछ सीख नहीं पाओगे।" और यह सत्य है, कभी-कभी उसे लगता कि वह अज्ञानी है। परन्तु वह

Application to ICT Award

All the works were going on simultaneously when I came to know about ICT Awards

So, I compiled my work and applied for the first time in 2013 but my application was not forwarded from the state and later on in 2014 and this time I was shortlisted to present my works before the Jury and in this way I reached CIET, NCERT, New Delhi



More than 52 Participants all over INDIA participated and shared their works



The presentation Day in room no 202, CIET, NCERT



The greatest news

No. F. 11-06/2014-Sch-5
Government of India
Ministry of Human Resource Development
(Department of Schools Education & Literacy)
(School-5 Section)

Shastri Bhawan, New Delhi
Date: 14.08.2015

To,

1. Principal Secretary – Education, of the Govts. of Delhi, Himachal Pradesh, Haryana, Karnataka, Madhya Pradesh, Tamil Nadu & Uttarakhand
2. Chairman, CBSE
3. Commissioner KVS
4. Commissioner NVS

Subject:- National ICT Award for Teachers- 2014-reg.

Sir/Madam,

The National Award for teachers for use of IT in Education for the year 2014 will be given alongwith the National Award to Teachers (NAT), in the award ceremony which is scheduled at Vigyan Bhawan on 5th September, 2015. The awardees are to reach Delhi by 2nd September, 2015 forenoon latest.

2. 9 teachers have been selected for the National ICT Award 2014. The list of awardees is as under:-

Sl. No.	Name of awardees	State / Organization
1.	Sh. Sandeep	Haryana (Government Public School Daya, Hisar- 125001, Haryana)
2.	Sh. Naveen Gautam	Himachal Pradesh (Government Senior Secondary School Mundkhar, Bhoranj, Hamirpur- 177001, Himachal Pradesh)
3.	Sri Shambulingaiah	Karnataka (Govt. Higher Primary School, Jodikothapally, Kolar- 563135, Karnataka)
4.	Sh. Manhor Lal Rai	Madhya Pradesh (Government Sec. School, Mahalakshmi, (Fort Campus), Shajapur- 465001, Madhya Pradesh)
5.	Sh. N. Anbazhagan	Tamil Nadu (Panchayat Union Middle School, 1-3 Ward Uthiramerur

Proud Moment

5 Sept, 2015

Vigyan Bhawan, New Delhi



Print Media

की पार से बर्बाद हो चुकी है।

निकल दिया था। इसके बाद विद्यार्थियों पर भी पुनः ने पन्ना

संदीप पचार को राष्ट्रपति ने किया सम्मानित

जम्मू संसददाता, हिंसा : इंग्लैंडेशन एंड काउन्सिलिंग टेक्नोलॉजी (आईटी) के बेहतर उपयोग को लेकर राजकीय प्राथमिक पाठशाला ङाघ में तेनात संदीप पचार को शिक्षक दिवस पर राष्ट्रपति ने सम्मानित किया। संदीप प्रदेश के एकमात्र अध्यापक हैं जिनको यह सम्मान मिला है।

संदीप की केंद्रीय मानव संसाधन विकास मंत्रालय की तरफ से आईटी के उपयोग व शिक्षक में नवाचार के लिए वर्ष 2014 का पुरस्कार दिया गया।

डायो के शिक्षक संदीप पचार ने बताया कि यह राष्ट्रपति पचन में सम्मान मिलने से काफी खुश है। यह प्रदेश के एकमात्र शिक्षक हैं जिनको यह सम्मान मिला है।

यह है संदीप की उपलब्धि

राजकीय प्राथमिक पाठशाला ङाघ में तेनात एवं कैम्परी वेड शिक्षक रमाध विहार कॉलेजी में रहने वाले संदीप 2004 में नौकरी आए। दो साल तक बच्चों को पढ़ाते रहे। 2006 में

संवाद ३ के आठ वहाँ मिले

→ रह ता पर क

→ मा

असिये निकल पेट गई। नि हगया। गया। प दोबाव। आते ने उपर शिक्षक

संदीप पचार को सम्मानित करने राष्ट्रपति। पहली शुरुआत मिड डे मील का रजिस्टर तैयार करने से हुई। इसका अपने बेटी पर 'महाक मिड डे मील रिकार्ड रजिस्टर' नाम दिया। डेड साल तक इसकी छवियों को प्रत किया और अब उनका बचपना रजिस्टर प्रयोग होता है। प्रदेश के करीब तीन हजार स्कूलों में इसका प्रयोग किया जाता है।

संदीप ने 2009 में आईटी पर काम शुरू किया। छोटे बच्चों की ओरों पर फकट कामकाज होने और एक पाठ कक्षा में निकलने पर पीछे रहने की भाव आने पर पाठ को रिकार्ड करने काम शुरू हुआ। इसमें संदीप ने पाठ को कैसेट में रिकार्ड करवा शुरू किया।

कर्मचारी : जिला मौलिक शिक्षा विभाग ने एसपी कर्मचारियों पर 17 जेबीटी शिक्षकों पर

जम्मू संसददाता, हिंसा : आईकोर्ट के आदेश के बाद वर्ष 2011 में पचों अंगुठे लगाकर नौकरी पाने तीन खंडों से एक भी शिक्षक न

जलपद विरहता में होगा गिरोह

सिं पचार में पचों व नौकरी कोकर कोरी ली पचारा बड़ी है। पने में इन गिरोह ली

सिंकेटी ली है। खुलु जलप में लया।

शिक्षक दिवस : डायो के अध्यापक संदीप आज होंगे राष्ट्रपति से सम्मानित

'संदीप' से शिक्षा जगत को रोशनी

जम्मू संसददाता, हिंसा : इंग्लैंडेशन एंड काउन्सिलिंग टेक्नोलॉजी (आईटी) के बेहतर उपयोग को लेकर राजकीय प्राथमिक पाठशाला ङाघ में तेनात संदीप पचार को शिक्षक दिवस पर राष्ट्रपति ने सम्मानित किया। संदीप प्रदेश के एकमात्र अध्यापक हैं जिनको यह सम्मान मिला है।

संदीप की केंद्रीय मानव संसाधन विकास मंत्रालय की तरफ से आईटी के उपयोग व शिक्षक में नवाचार के लिए वर्ष 2014 का पुरस्कार दिया गया।

डायो के शिक्षक संदीप पचार ने बताया कि यह राष्ट्रपति पचन में सम्मान मिलने से काफी खुश है। यह प्रदेश के एकमात्र शिक्षक हैं जिनको यह सम्मान मिला है।

यह है संदीप की उपलब्धि

राजकीय प्राथमिक पाठशाला ङाघ में तेनात एवं कैम्परी वेड शिक्षक रमाध विहार कॉलेजी में रहने वाले संदीप 2004 में नौकरी आए। दो साल तक बच्चों को पढ़ाते रहे। 2006 में

डायो के अध्यापक संदीप आज होंगे राष्ट्रपति से सम्मानित



हिंसा के शिक्षकों को पुरस्कृत करेंगे प्रणब

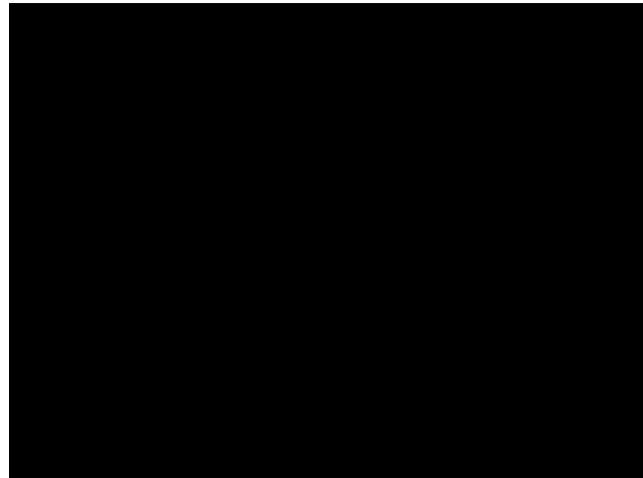
जास, हिंसा : शिक्षण कार्य में सुचना तकनीक के इस्तेमाल करने पर हिंसा के डायो गांव के राजकीय प्राथमिक पाठशाला के प्राथमिक अध्यापक संदीप पचार को केंद्रीय मानव संसाधन विकास मंत्रालय द्वारा पुरस्कृत किया जाएगा।



संदीप पचार

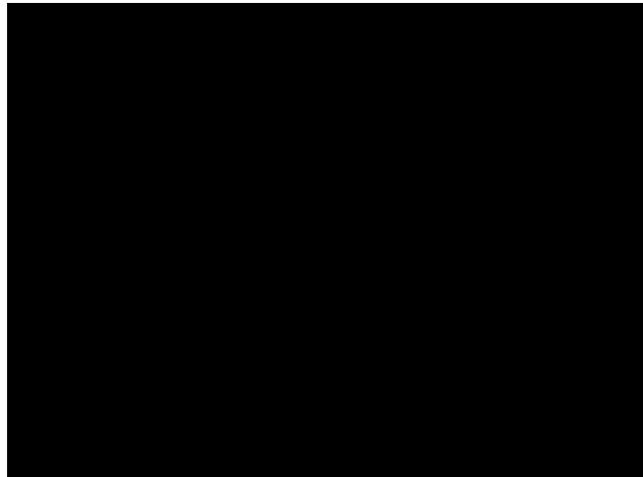
E-Tutor

<https://youtu.be/2YujbyhODoQ>



**E-Paathshala
in classroom
Listening skills**

<https://youtube.com/shorts/LbgzbZ8CdoY?feature=share>



Connected all classrooms with small speakers



NIPUN BHARAT Abhiyan



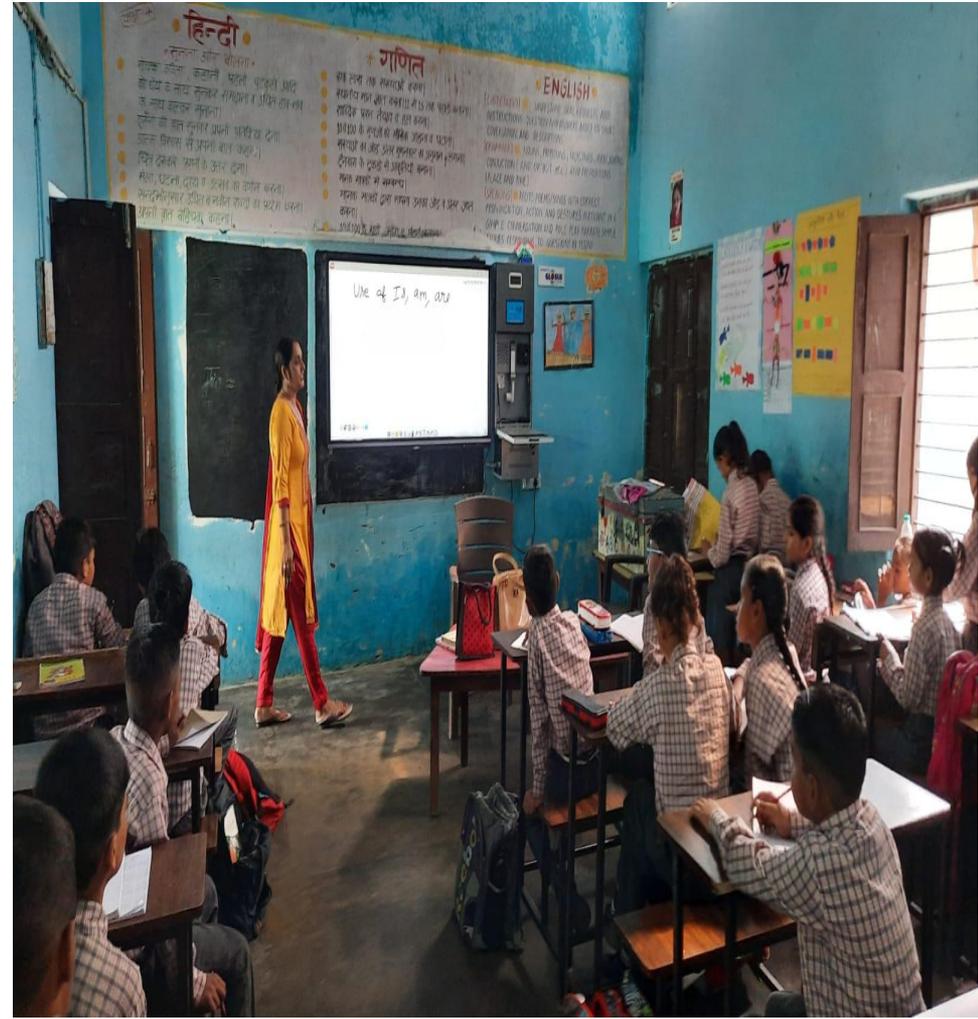
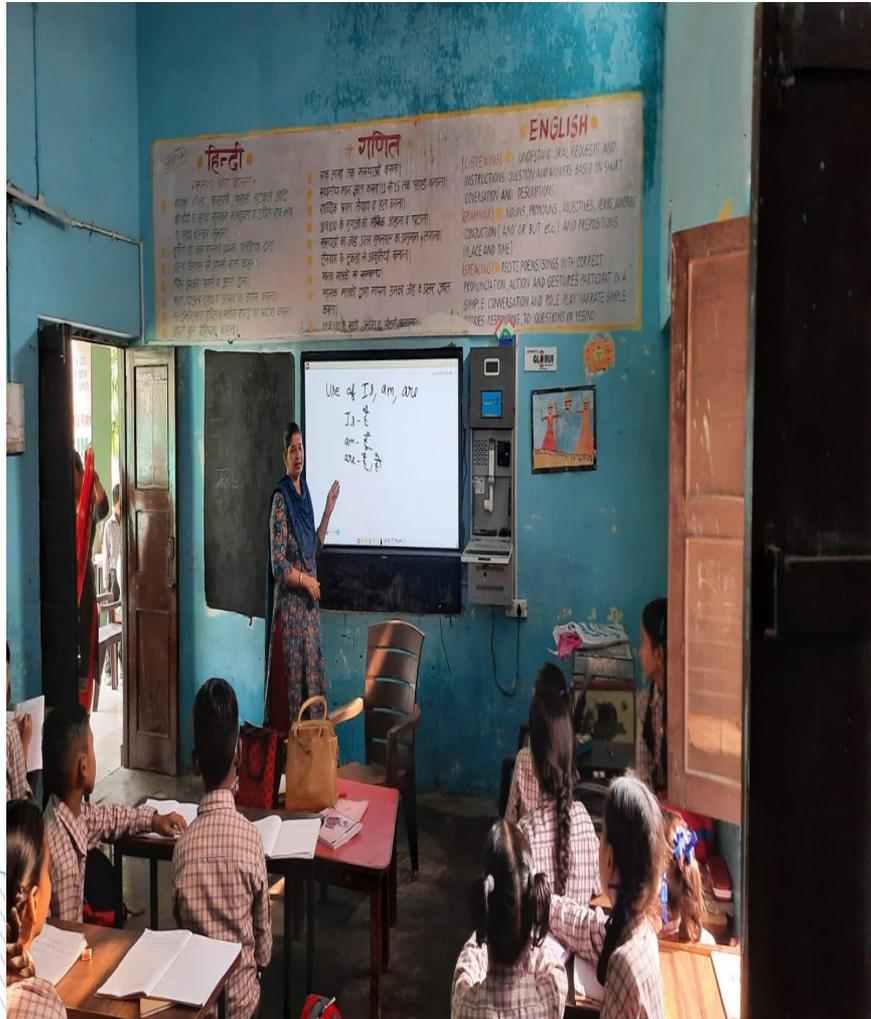
ISRAEL Tour for ICT



Uzbekistan tour



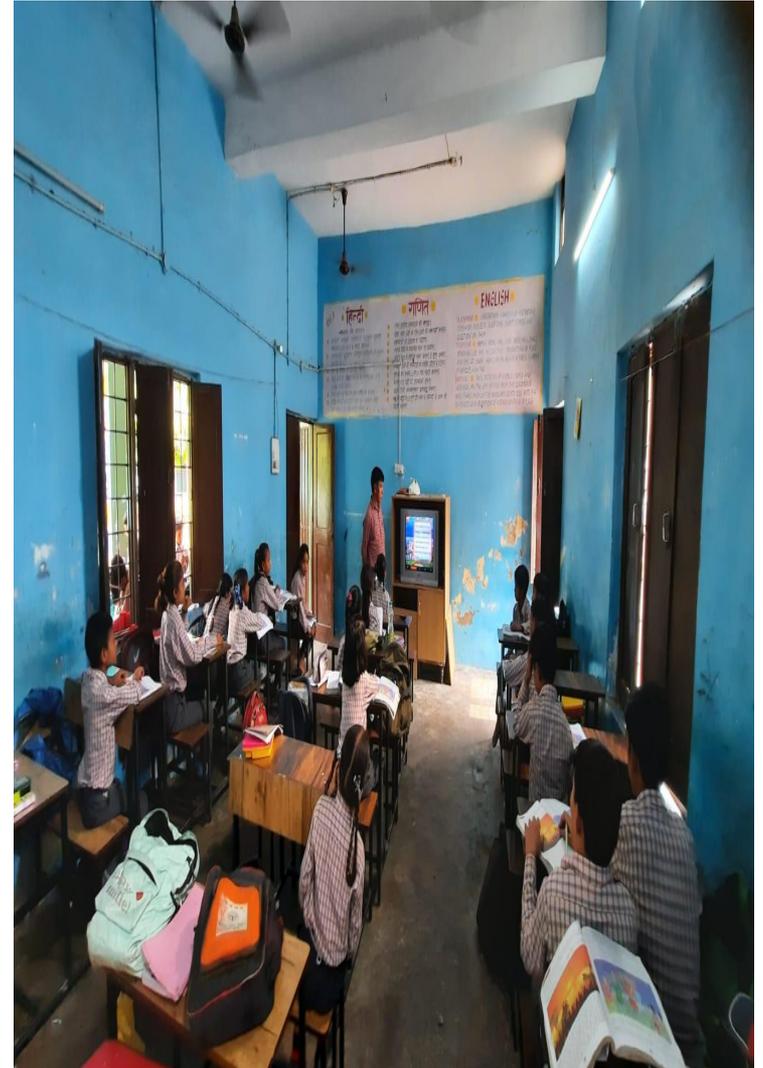
GMSPS Fatehur, Sec 20, Panchkula



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GMSPS Fatehur, Sec 20, Panchkula



GMSPS, Fatehpur, Panchkula



The journey has just begun.....

**Still
Working.....**

