

# 'Chiphen Rigpel'

A friendship project between the Government of Bhutan and Government of India





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### Glimpses













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## Chiphen Rigpel - An overview

'Chiphen Rigpel - Enabling a Society, Empowering a Nation' – is the ambitious Human Capacity Building project introduced by The Royal Government of Bhutan in partnership with Government of India. Chiphen Rigpel has been designed to help Bhutan successfully transition to a modern IT-enabled Knowledge Society. The Government of India supported project was launched on April 30, 2010, on the sidelines of the SAARC summit in Bhutan. NIIT is implementing the Project in Bhutan.

A wholly inclusive project that reaches out to all sections of Bhutanese society, Chiphen Rigpel is expected to provide ICT skills to about a fifth of the population of Bhutan and help them become empowered citizens of an IT-enabled society. The programs offered under the project encompass training of the country's leadership in preparing for e-governance, bringing ICT and ICT-enabled education to schools, training of teachers, training of youth with employable IT skills and creating Minimally Invasive education opportunities for the unreached Bhutanese population across the length and breadth of the country.

Chiphen Rigpel, has been quietly transforming teaching and learning across Bhutan. Since its inception the project has provided IT training to over 1,00,000 school children and youth, thereby IT-enabling over 50% of the country's entire population in this category. The project has, further, directly impacted 100% of all students in government secondary schools. As a result, IT is now an integral part of the curriculum for students in Bhutan from class 7th to 12th. Children who pass out from secondary schools are IT proficient, just as they are proficient in other conventional subjects like Math, Science and English, thus paving the way for a truly IT-literate society!

Chiphen Rigpel is also changing the way education is delivered by making ICT an essential part of the educational process. With IT-enabled learning aids like Smart Science Station, Geometer's Sketchpad and Computer Aided Learning, classrooms are far more exciting and interactive. Each of the 168 government secondary schools across Bhutan has already introduced ICT-enabled teaching-learning aids under the Chiphen Rigpel project being implemented by NIIT.

ICT significantly enhances the capability of teachers & increases the impact of textbooks. It can be harnessed as a powerful modern-world tool to enrich the teaching-learning experience and enhance the motivation of both teachers and students to do better. The day is not far when other countries will look at Bhutan as a model for creating an IT-savvy generation and for effectively integrating ICT into their Educational Systems.



# 100,000 trained in four years

This is how the Chiphen Rigpel project quantifies its contribution to the society

#### Gvalsten K Dorii

More than 100,000 Bhutanese were trained under the while the average mark was Chiphen Rigpel project so far. 82 percent.

#### ICT

event marking the project's tres established. fourth year yesterday.

project designed to help to help them integrate ICT in Bhutanese society transition teaching and learning procto an IT-enabled knowledge ess

scheduled to end next year.

The project has six components of bringing information communications lished in colleges, technical technology (ICT) to schools, training institutes, Royal Inempowering teachers, enhancing employability, enabling e-governance, reaching Over 19,000 youth have been the unreached and managing certified through these cene-waste.

In the first component. project officials said more ants, including 300 monks. than 95,000 school students were trained and seven ereceived an IT education since 2010. The project ensured that all students who complete secondary education in the country were digital divide, 131 playground "fully" IT literate, with a learning stations were estab-

Besides providing IT Unreached project. training, educational tools that enable simulated science and surveys have been carexperiments, exploration of ried out to develop rules mathematical concepts and and regulations and a guide learning of geography have manual for national e-waste been given to each school.

strong foundation of IT skills.

ICT learning centres, it in 168 government secondary

Project officials also said

the students were examined on their skills twice a year and that 96 percent passed,

Coming to empowering teachers, more than 5,200 teachers were trained and seven teacher-training cen-

The training program pro-Chiphen Rigpel is a vided teachers with IT skills

In ensuring all youth Funded by the Indian gov- entering the job market acernment, it was launched in quired the necessary IT skills, 2010. The Nu 2.05B project is 16 IT learning centres were established to enhance their employability.

> The centres were estab stitute of Managment, and the Youth Development Fund.

More than 7,300 civil servgovernance training centres established under the enabling e-governance aspect.

In efforts to bridge the lished under Reaching the

On e-waste, workshops

Speaking at the event, was said had been established NIIT chairman Rajendra S Pawar said the project was now in transition. The government chose NIIT, an In



Visible benefits: MOIC minister DN Dungyel and education minister Mingbo Dukpa watch a documentary some teachers made, thanks to Chiphen Rigphel

dian company, to implement brought together India's addressing

He said it was important to and resources of Bhutan. now take stock of the project's

said the project was an "out- located to schools. standing example of coop-Bhutan".

strengths in IT with the needs

However, the ambassador impact. While quantitative also pointed out issues that were exploring relocation of targets were met, the quali- needed to be addressed. He tative impact of the project said some the playground ing stations. needed to be closely studied. learning stations were un-Speaking at the event, In- derused given their locations pel project had benefitted all dian ambassador VP Haran and he suggested they be re-

He also said some IT eration between India and learning centres that NIIT not as a facility, but as a right established lacked internet to the people. He said the project access and that it required

Information and communications minister DN Dhungyel explained they underused playground learn-

He said the Chiphen Rigsections of Bhutanese society.

He said the country was committed to providing ICT

## **Chiphen Rigpel family: Walking** together on a path to an IT enabled society



The Chiphen Riapel Family of - Lopen Tshering Dorji, Photo Created and provided by Lekzin Palden Lhamo

Inclusive Growth' has now become a catch phrase and including all sections of the society in any development project is indeed the real yardstick of its success! Most Government initiatives and projects today are planned in a manner to include the entire society irrespective of age. economic, cultural or educational background. It is indeed encouraging to note that the Chiphen Riggel Project which has been designed to be a broad-based inclusive project has several such instances where people from across the society have benefited from its various programs. Perhaps the best example for this is where the entire family has become IT literate by undertaking training programs offered under

Rigpel, as we all know, is the ambitious Human Capacity Building project introduced by the Royal Government of Bhutan in partnership with the Government of India with the aim to help Bhutan successfully

transition to a modern IT-enabled Knowledge Society. In one case, in a family of three - both the parents and the son underwent different training programs under the project, customized and tailored to suit their specific roles and needs. The mother, who is a teacher at a primary school, went through a 10-day training program especially designed for teachers. The father, who is a civil servant, went through a 5-day training program in Program Management for e-Governance. And the son, a middle school student, has been studying IT as part of the the project. The Chiphen curriculum that has been

Chiphen Rigpel project, The family of Lopen being implemented by

developed under the

It is also interesting to

note that not only did

they attend different

courses, but they also

attended training at

different locations. The

Chiphen Rigpel project

has provided training

walks of life including

civil servants, teachers,

schoolchildren, youth

and the monastic body

to all sections of the

at more than 200

Tshering Dorji is another such family that has benefited from the Chiphen Rigpel project. Both parents who are teachers underwent the Teacher Training provided under the project and the two daughters who are in Class X and Class VII are also receiving training locations across Bhutan to people from different under the project. The mother, Kezang Choden, said. "This was a special experience for us as we were one of the first batches to receive the to ensure its avowed goal of bringing IT education training that made a huge difference to

our confidence levels and removed our fear for computers. The training motivated us to buy a laptop for our whole family and we have also given our elder daughter a laptop. Thanks to Chiphen Rigpel we now use computers for a variety of tasks like making lesson plans in schools." The elder daughter Lekzin Palden Lhamo a student of Class X said "The Chiphen Rigpel training has taught me to use my laptop effectively. I now use internet to download information for my school projects." In an interesting twist. the daughter Lekzin has now joined the school IT Club as a part of which she provides basic computer training to friends and poor children who cannot afford computers. In her own way she is giving back to the children the benefits that she received under the program. This is indeed an encouraging trend as it will go a long way in making the program sustainable, for the power now rests with Bhutanese population

Kuensel, May 16, 2014

Bhutan Times, May 4, 2014

to enlighten and

illuminate the newer

## Chiphen Rigpel: Spreading the light of IT in Bhutan

Thimphu - It is 4:00pm at the Youth Development Fund (YDF) and a group of small children between the ages of 5 to 11 are gathered around a small centre near the YDF entrance. This is a familiar sight across Bhutan in more than 130 locations. The children are drawn to the two yellow and red boxes located adjacent to the YDF gate. These learners and provides them are the Hiwel Playground Le- with age appropriate topics arning Stations or more sim- and games. The other paraply put the PLS. Implemen- meters which the PLS uses ted under the Chiphen Rigpel are class and language. Howeproject, these Playground Learning Stations are unique children an opportunity to systems designed to educate explore beyond the material young children by harnessing provided by enabling them to their natural enthusiasm for select additional options. For learning through playing.

The Hiwel Playground Learning Station, the result of related to his own age group a path breaking experiment but can also access additional pioneered by NIIT's R&D and financed by the International dard kids. Finance Corporation, is an initiative which encourages student shares his experience Playground Learning Station Project nimally Invasive Education. e-learning initiative for imchnologies beyond the class-

One of the enthusiastic

to use a Computer". He likes to play Brain Games, one of the popular games at the PLS as it has lot of animation that children find exciting. Some of the other popular contents that the PLS offers to the students of Rinchen Kuenphen School are reading, mathematics, painting & science.

The PLS is an attractive set of computer kiosks which enquires about the age of the ver, the PLS also provides example a student of Class 7 can not only explore materials materials meant for 8th stan-

Rigyel Younten, a Class 4

natural learning through an of PLS with us. He says that innovative methodology - Mi- PLS has helped him improve his reading skills tremen-The PLS is an activity based dously to the extent that his across India, Bhutan, Camboclassmates who used to tease dia and countries in the Afriproving elementary education him in his reading skills now can continent. Breaking the by offering exciting and effec- respect him for his improve- traditional confines of school, tive education and learning ment. "This has boosted my experiences through novel te- confidence and I now look forward to going to school every morning". Rigyel enthusiastically adds, "I have children from the group, So- also learned mathematics and nam Tenzin, a Class four stu- love doing multiplication, dident from Rinchen Kuenphen vision, subtraction and addi-School says, "It is with the tion with the help of PLS". Mr.



Sonam and Rigyel enter the fun world of learning with Chiphen Rigpel's Playground Learning Stations

"PLS has made learning an exciting and enjoyable experience for children. Additionally learning along with their friends has helped improve their interpersonal skills."

Since inception, HiWel has played a significant role in improving elementary educathe PLS takes Learning Stations to the playgrounds by employing a unique collaborative learning approach that allows children to explore, learn and also enjoy themselves while doing so. With over 300 multimedia titles the PLS covers a range of subjects and help of PLS that I learned how Tek, NIIT Coordinator said, has already been adopted by

many schools across Bhutan. The Hiwel PLS initiative is a part of the Chiphen Rigpel project, supported by the Government of India.

#### **About Chiphen Rigpel**

'Chiphen Rigpel - Enabling a Society, Empowering tion and life skills of children a Nation' - is the ambitious Human Capacity Building project introduced by The Royal Government of Bhutan in partnership with Government of India. Chiphen Rigpel has been designed to help Bhutan successfully transition to a modern IT Enabled Knowledge Society. The Government of India supported project was launched by the Prime Ministers' of India and Bhutan on April 30, 2010, on the sidelines of the SAARC

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Bhutan Today, May 1, 2014

# Offering a new lease of life through IT



NIIT's Chairman, Mr. Raiendra S Pawar, receiving a toker of appreciation from Her Majesty the Queen Mother Ash Tshering Pem Wangchuck for the work done by NIIT at YDF under the Chiphen Rigpel project.

Thimphu - Since its inception in 1999, Bhutan Youth Development Fund (YDF) has been working tirelessly to address the problems and needs of vulnerable young people afflicted by problems related to alcohol and drugs.

Through its 'Drop In Centres' in Bumthang and Thimphu and its Rehabilitation Centre in Serbithang, YDF provides both counseling and training programmes to help recovering youths get back to their normal lives.

In 2011, YDF introduced IT own businesses." Skills Training Program, under the aegis of the Chiphen Bhutan in partnership with the Government of India. The YDF Programme aims lopment programmes to help dge about computers. recovering addicts make their livings. The skill development spread across Bhutan, and are being implemented by NIIT.

According to Kinley Tennator, the IT Learning Centres address multiple needs level the programme acts as programme. an extended phase of the the-

venting them from indulging in drug abuse."

youths regain their concentration, confidence and sense of self-worthiness. More importantly, the IT Skills Programmes play a key role in rehabilitating these youths into the mainstream society by providing them with employment skills. Many of our clients have got jobs after the completion of the programmes and in some cases; they have successfully started their

Tashi Dema, 21, who was once a client at one of the Rignel project, undertaken centres is now a peer volunby the Royal Government of teer and speaks highly about Chiphen Rigpel's IT Skills Programmes. She recounts that when she first came in, to come up with skill deve- she did not have any knowle-However, today, she is at

ease with computers and uses programmes are offered at them for maintaining records, three IT Learning Centres communication, and presentations. Dechen, a single mother of two, who is a client at the centre, did not even zin, YDF's Program Coordi- know how to switch on a computer. Today, she is learning contribution of these centres, MS Office and plans to open of recovering addicts. "At one a shop after she finishes the

She is confident that what

rapy and engages the clients she has learnt would help her in productive activities pre- immensely in running her shop. Like Dechen, all the clients at the Centre are very "The focus is to help these excited about their IT classes as they feel that these skills are very important in the modern world.

Kinley (name changed) is another such client who successfully completed her Chiphen Rigpel's IT Skills programme and got a job in a government agency. He says that the program really got him interested in computers helped him acquire new skills and develop his confidence. Kinley also knows several shopkeepers who had gone through the IT Skills programmes at DIC Bumthang and are now using Excel and Word for accounting and record-keeping at their shops.

Loday Zangpo, Manager of the Rehab Centre says, the Chiphen Rigpel IT skills programme has proved to be useful in her life.

The skills provided by the Training Centres, give clients at the Rehab a sense of accomplishment and self-worthiness. This is, perhaps, the most important which are working tirelessly to help recovering addicts reintegrate into the mainstream

Bhutan Today, May 15, 2014



## Multimedia content developed by schools to help learning go beyond the textbook



Pema Seldon from Thimphu

Drukyel higher secondary school in Paro stood first among five schools during the first local Multimedia Content Development Contest organized by Ministry of Education under the Chiphen Rigpel

The Drukyel Higher Secondary School Principal Karma Tshering said their project was very interactive and it took months to finish the project, done after school hours, "One

of the most important content we had made was learning Dzongkha language in different ways and we made it very easy for students. They can learn it on their own without help from teachers," he said.

Tsaphel Lower Secondary School from Haa bagged the second position, Motithang Higher Secondary School secured the third position, and Gasa Primary School and Punakha Higher Secondary School came in the fourth and fifth positions.

Secretary of the Min-

Multimedia content development initiative endeavors to encourage development of content rich in local topics, traditions and culture.

istry of Education, Sangay

Zam said such initiatives will

help teachers and students

to go beyond regular text-

book learning.

The productions touched on areas like how to brush ones teeth, how to wrap a kabney, how to escape from natural disaster like earthquakes, Bhutanese quiz, meaning of national holidays, solar system and

"So much interesting material has been generated and now we must see how we might able to share this with a much larger audience and not just the five schools," said the Secretary.

She further said that students must make most use of technology, under the guidance of teacher and teachers also must see how the students can develop their own.

Content development intends to promote innovation in education and hope to make teaching and learning significantly more interesting and interactive both for teachers and

Vivek Manglorkar Rao, the vice president of NIIT said that there is a significant amount of international content available but there is a noticeable dearth of content related to local topics. "The development of local multimedia content can play a key role in providing relevant local information and also in preserving and disseminating local traditions and culture. which otherwise could be lost given the rapid pace of urbanization and ruralto-urban migration in the

country," he said. In January 2014, the

Ministry of Education selected five schools as a part of a pilot project to promote local content development using multimedia. Selected teachers from the schools were provided extensive training on multimedia content development including pedagogical training, and multimedia techniques covering audio, video, graphic creation and editing.

"At the end whatever training we had, it was all worth it. I am so happy with the result. We have been rewarded for our hard work." said Kinga, who teaches at Drukvel Higher Secondary School.

"Today we are seeing relevant Bhutanese contend been produced by teachers. The result has exceeded by expectation and it was a very fantastic start," said the vice president of NIIT.

The Ministry of Education is also evaluating ways in which this pilot project can be leveraged further through dissemination of prize-winning high-quality content to other schools. as well as inclusion of additional schools under the content development

Business Bhutan, May 10, 2014

## **Drukgyel tops Multimedia content contest**

The initiative is to promote innovation in education

Tshering Dorji / Thimphu

Drukgyel Higher Secondary School (DHSS), Paro came in first among five schools as a part of a pilot project in the multimedia content development (MCD) contest held on May 8. The contest was organized by the Ministry of Education (MoE), under the Chiphen Rigpel project.

Teachers from five different schools of Gasa Primary School, Punakha HSS, Drukgyel HSS, Motithang HSS and Tsaphel LSS in Haa participated in the unique contest that aims to encourage and inculcate the culture of local content development in Bhutan.

A press release states that MCD helps to promote innovation in education and can make teaching and learning significantly more interesting and interactive, both for teachers and students.

The MCD initiative endeavors to encourage development of content that is rich in local topics, traditions and culture, the press release states.

Vice President, NIIT (Chiphen Rigpel). Vivek Manglorkar Rao, said it is an important initiative which has lot of potential to transform education through innovation and increasing participation of students and teachers.

Rao said, "We want to promote local content (Dzongkha) development in Bhutan, I have a lot of Science, Maths and English content, but no Bhutanese topics. I want to create a system that would create Bhutanese content and this is the reason that I have taken the initiative to train Bhutanese teachers because Bhutanese content should be made by the Bhutanese themselves."

He is eager to start the pilot project in 100 schools around Bhutan.

Secretary, MoE, Sangay Zam, said it is not only about getting content or using multimedia, but the important factor is that teachers now realize that even without multimedia, they can do lot, in terms of developing content on their own and going beyond the text book. She added that although curriculum reforms take a longtime, instead teachers can

update the curriculum and make it more relevant with the changing times.

"From ministry's side, we will see how we might be able to share with much larger audience, not only with five schools. We will put this in the ministry's website. Teacher must be able to accept the facts and encourage children to ask questions. In a lot of cases, there is no right answer. It is only through interaction that we learn

'IT is very different and challenging, but it's not impossible if we receive the right kinds of skill and training and motivation on time. Learning IT is a journey for me, a process in which we learn new ideas, technical skills and local knowledge, like culture and religion," DHSS teacher, Sangay Tshering said

The multimedia content development project aims to increase the content related to local topics that are relevant to Bhutan. Hence, the development of local multimedia content can play a key role in providing

local information and also in preserving and disseminating local traditions and culture, which otherwise could be lost, given the rapid pace of urbanization and rural-to-urban migration in the

In January 2014, the MoE selected five schools as a part of a pilot project to promote local content development using multimedia. The selected teachers from the schools were provided extensive training on multimedia content development including pedagogical training, and multimedia techniques covering audio, video, graphic creation and editing.

The MoE is also evaluating the ways in which the pilot project can be leveraged further through dissemination of prize-winning highquality content to other schools, as well as inclusion of additional schools under the content development program.

The multimedia development contest was held under the support of the Chiphen Rigphel project, being

The Bhutanese, May 10, 2014

# KUEISEL. THAT THE PEOPLE SHALL BE INFORMED

## Local multimedia content development contest results

Drugyel HSS came first, Gasa PS second and Motithang HSS third in the pilot project

A team of teachers from Drugvel higher secondary school (HSS) won first place in the local mul-

#### **CHIPHEN RIGPHEL**

ministry under the Chiphen using PowerPoint for animation, Rigphel project, the contest moviemaker for movie editing, was among five schools - Gasa audacity for audio editing and primary school, Punakha HSS, Microsoft picture story for pho-Tsaphel LSS, Haa, Drugyel HSS tographs. and Motithang HSS.

ed as a part of the pilot project to form to learn something new and promote content development different. They could pass on using multimedia were given their knowledge from the trainthree months to complete the ingover the three months, which,

In January, five teachers as teaching materials. each from the five schools were

graphic creation and editing. The teachers then initiated the project in their schools.

The schools developed a variety of contents that focused timedia content development on diverse traditional and topical subjects, like prayer flags, brushing teeth, grammar,

Gasa tsachu and animal cells, among oth-

Organised by the education ers. The content were developed

Despite time constraints, The schools that were select- teachers said it was a good platthe teachers said, could be used

With such content developprovided extensive training on ment as teaching materials, a multimedia content develop- teacher at Drugvel HSS, Sangay ment process and multimedia Tshering, said, learning would techniques covering audio, video, be easier, interactive, and fun for



Drugyel HSS presents their product to the guests

"We plan to develop more such contents as teaching materials, which teachers and IT students can develop as well," he said, adding contents could also be in the form of games.

Gasa PS principal Pema Dorji, were in the pipeline as they were

"Teachers need to be abreast The second position went to ment," he said.

Gasa PS, while Motithang HSS came third.

> The participants were presented awards and certificates. Chiphen Rigphel's project

director, Tandi Wangchuk, said the initiative aims to encourage a culture of content development in said more multimedia contents the educational system, emphasising local content.

"It will also help foster educational innovation and create a of the new technologies," he said. substantial local content develop-

National institute of information technology's vice president, Vivek Rao, said the contents developed by the first batch of teach-

ers were beyond his expectations.

"Some concepts are really good and the education ministry will now pass it to other schools,"

"We have plans to train more teachers," Vivek Rao said, adding teachers were free only during the winter break and the training took almost a month.

Kuensel, May 9, 2014

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## Glimpses

















