CYBERNETYX

A CASE STUDY

Bringing Quality Smart Education to Rural India

A Government of Rajasthan Initiative

POWERED BY CYBERNETYX

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BACKGROUND

The Government of Rajasthan issued an e-Tender to initiate a contract for the supply and installation of computer systems, interactive board, UPS, and networking and electrification in 5051 secondary and senior-secondary government schools in Rajasthan, India, with 5 years on-site comprehensive warranty.

Information and communication technology (ICT) is considered an important element for social transformation and an equally important, if not more, tool for education.
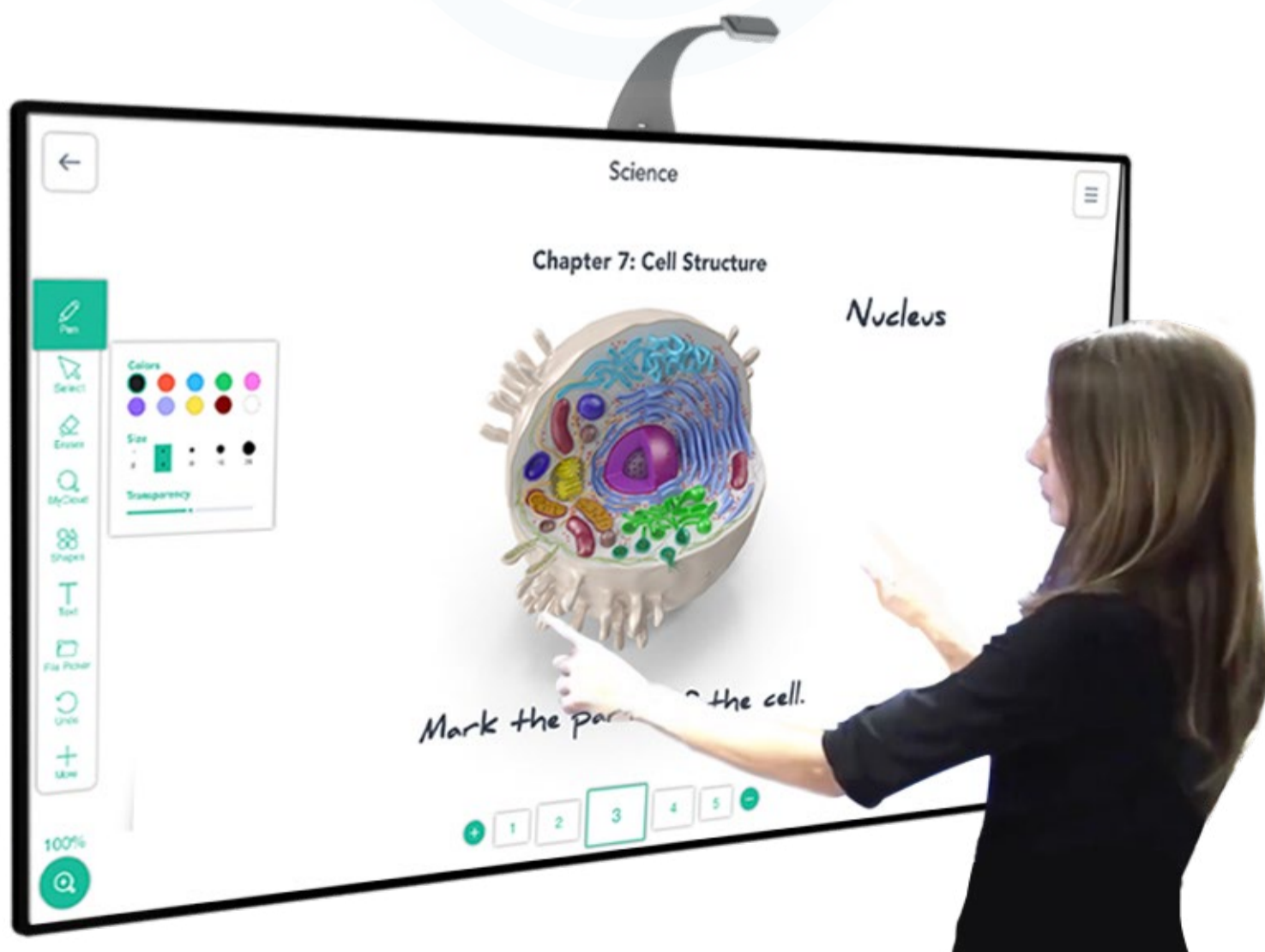
THE PURPOSE

The purpose of such a tender was to familiarise students with the use of workings of modern technology like interactive whiteboards (IWBs), as well as, leverage on the power of ICTs for teaching conventional subjects that get registered far effectively compared to conventional teaching-leaning method.

The integrated approach to technology in education has prerequisites; it should be able to provide

- Engaging and immersive learning experiences
- Free content for the curriculum
- Focussed learning outcomes
- Ease of creating and delivering instruction

In keeping with the vision, Cybernetyx strives to create a model to equip schools with technology-based digital learning zones for students and teachers to maximise learning outcomes for a smarter future which can be replicated in other schools in the city. The 5051 classrooms, selected by the Government of Rajasthan at various corporation schools, will be equipped with interactive whiteboards, computer systems, and projectors to create smart classrooms.

APPROACH

In order to equip students for success in a complex, ever-changing digital world and increase the access to sophisticated technology solutions in rural areas, Cybernetyx won the bid to install interactive whiteboard solutions in 5051 classrooms in Rajasthan.

Interactive whiteboard solution installed in the classrooms met all the requirements of the tender, a few are listed below:

- CNX's interactive whiteboard solution is surface-independent, in fact, it's a small device (EyeRIS IX) that can turn any surface interactive when connected to a projection and computing system.
- EyeRIS IX supports real-time interaction and the fastest writing speed without any time lag. It has a tracking speed of 195 million dots/second.
- It supports optical tracking with multi-touch functionality
- Has precise auto-calibration as well as manual calibration features
- Can use a 4:3, 16:9, or any other aspect ratio as required for projection
- It comes with a super-capacitive stylus and finger touch functionality
- Stylus does not need any batteries or consumables. It supports up to 3 hrs of standard usage
- EyeRIS IX comes bundled with an initiative app-like software for teaching - Intellispace
- The software supports Gesture Recognition like zoom, pan, tilt, flicks etc
- Handwriting and shape recognition
- Capability of taking Snapshot from running video
- "Cloud Access" in Interactive Whiteboard Application to access filtered free educational content on any topic in the world

IMPACT

Using the power of technology, the state government was able to upgrade the school life of many students in Rajasthan. Some benefits of the project would be:

- Direct interaction with the classroom through digital resources
- Computer-based learning with a communal screen, not individual computers
- Increased student motivation
- Better student engagement and enhanced retention
- Better learning for students
- Application of modern technology for knowledge work and teaching
- Immersive and enjoyable learning experiences with better outcomes

These digital classrooms significantly helped increase the attention span of students; teachers maintain that there has been a reduction in absenteeism and school dropouts. It has also improved student familiarity and comfort with technology. The digitally interactive environment encourages even shy or hesitant students to participate better in classroom discussions.

Dreaming of becoming a doctor when she grows up, Divya says, "At my previous school, all the teachers used textbooks and blackboard to explain subjects. But in this school, we are taught using videos, images and presentations. Learning is now more exciting and interesting. This clearly indicates the programme's acceptance and importance."

ABOUT CYBERNETYX TECHNIK

Cybernetyx is the leading OEM smart sensing technology supplier to technology giants of the world such as NEC Display, ViewSonic, Delta, Sony, and others - and is being used in millions of devices worldwide. It's the first company in the world to deliver large scale true-multitouch solutions and robust motion tracking software for the display industry. We've reached over 15 million users and 135,000 devices worldwide and growing every day.

GLOBAL FOOTPRINT

Registered office : Berlin, Germany

Cybernetyx Hardware R&D center
Seoul, South Korea.

● Registered company offices

● Presence of Authorised Distributors / Channel Partners

● Technology partner/SI presence

1. Cybernetyx India Support Centre (CISC), NOIDA
2. Cybernetyx Experience Centre, NOIDA
3. Cybernetyx Software Labs, Bangalore

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