

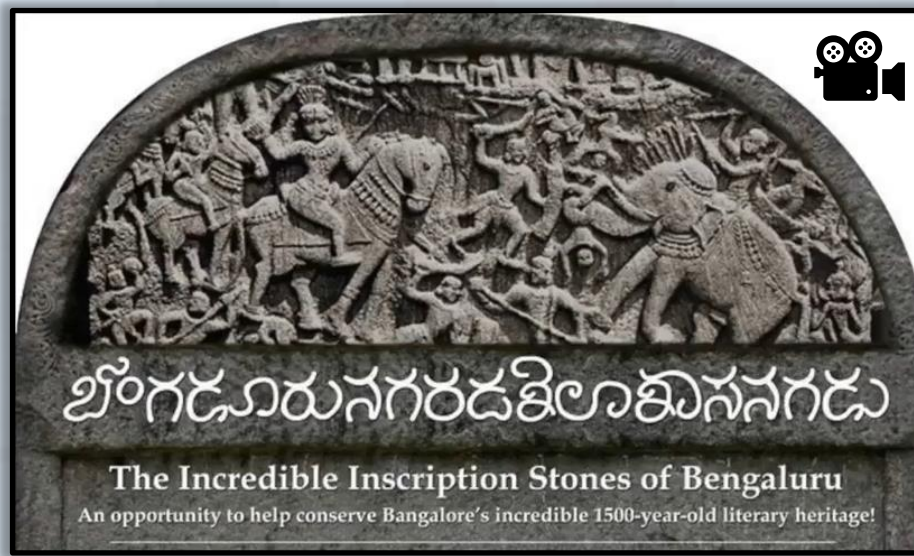


Summary of CSR projects Altem Technologies



29 Nov 2017

Images shows a major inscription stone lying unattended in an open gutter in Bangalore which is digitized for conservation by ALTEM



The Incredible Inscription Stones of Bengaluru
An opportunity to help conserve Bangalore's incredible 1500-year-old literary heritage!

FUTURE IN THE PAST

A unique project that traces city's history before Kempe Gowda

Aim is to digitise 1,500 stone inscriptions and create their 3D models in three years

NIRANJAN KAGGERE
BENGALURU, DHNS

For most people, the history of Bengaluru essentially starts with Kempe Gowda, who founded the modern city in the sixteen century. Although scholars and epigraphists have traced the city's history to 750 CE, few people would believe that India's IT capital is older than a millennium.

Hundreds of stone inscriptions and hero stones in the city dating back to 1,000 years contain the richness of its past, but in many cases, they are disappearing in the changing weather conditions and rapid urbanisation. But a project that began earlier this year is promising to digitise at least 1,500 inscriptions and create 3D models to preserve the city's glory for posterity.

Besides protecting the stone records, the citizen project by Inscription Stones of Bengaluru and Mythic Society also vows to create awareness on the ancient stones and the stories they tell about the city's heritage. The three-year project that began in January is creating 3D models of the stones in Bengaluru Urban, Bengaluru Rural and Ramanagara.

A team of five archaeologists, historians and epigraphists has scanned about 70 inscriptions. P. L. Udaya Kumar, the honorary director of the project, described the initiative as first of its kind in the country in which 1,500 inscriptions will be digitally preserved with every minute detail.

Epigraphists and historians scan the stone records with an advanced hand-held scanner. The scanned images are then processed into 3D models.

lost them completely," he rued.

And in some cases, despite their prominent position, people have failed to recognise their value and the inscriptions have been buried in garbage. "Luckily, we've managed to capture most inscriptions that were about to disintegrate," Uday said.

"While most of the available inscriptions around Bengaluru were documented by scholars like B.L. Rice, there are about 20-25 unpublished inscriptions that people have reported," Uday explained.

Preoccupied with the idea of communicating the value of the inscriptions to the locals, Uday and his team began telling the locals about the historic legacy of their locality. "By conserving the history for the future generation and sharing it with others, we're giving it back to society," he said.

The digital conversion programme is assisted by volunteers who provide training on software and equipment handling techniques to the epigraphists and historians.



We are closely working with a Non-Profit organisation called [Inscription Stones of Bangalore](#) to help conserve historical stones of Bangalore. Inscription stones of Bangalore (under Mythic Society of India) identifies and conserves historical artefacts which are digitized and studied to understand the history of Bengaluru City. Altem Technologies has supported in providing equipment and technical support for 3D Scanning and digitizing these stones.





Helping Payal to live a painless life: A project we are very proud of is helping Payal, a teenage Osteosarcoma (bone cancer) survivor based in Delhi suffering from scoliosis. A condition in which the spine is bent. This was an ill side effect of Osteosarcoma and its treatment. Typically, there are two ways to treat this condition which is either thru multiple surgeries (which is highly expensive) or thru Orthotics techniques of wearing a spinal brace which corrects the posture incrementally over time.

Typically, this process is conducted by a Orthotics doctor who creates this brace by moulding POP over the patient's body. This process is highly inaccurate, requires immense manual and re-work and the fabricated device is heavy and requires heavy adjusting, making the treatment long and regular visits are required.

Altem supported Pandit Deendayal Upadhyaya National Institute for Persons with Physical Disabilities to support Payal thru Digital Orthotics, this process is common in western countries but rarely done in India.

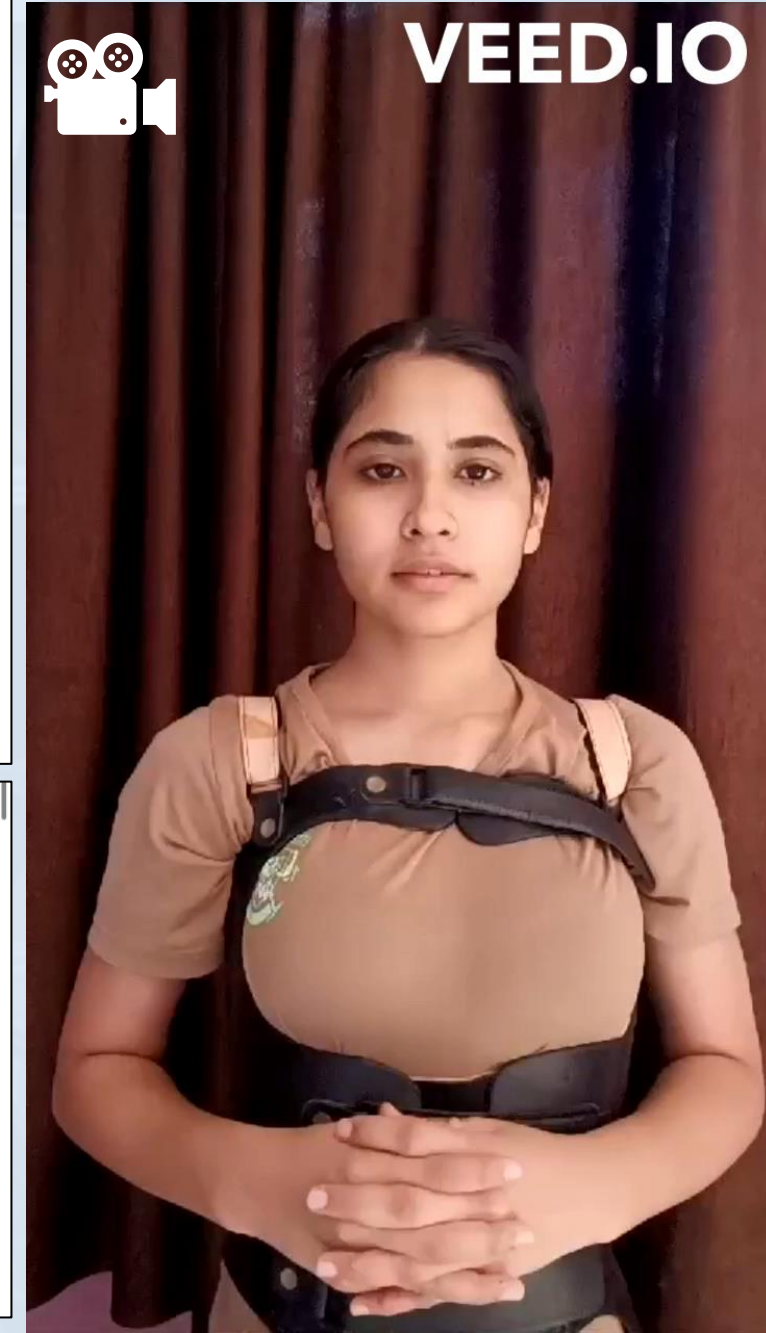
Using our 3D scanning tools, we 3D Scanned Payal. This method is completely non-contact and takes less than 10 minutes (with the patient). Then using Digital design and Analysis tools our team designed the brace which was 3D Printed by us and fitted onto the patient. The patient has now completely recovered. The 3d printed brace is lighter and convenient for the patient are requires little to no adjustment from the doctor's side.

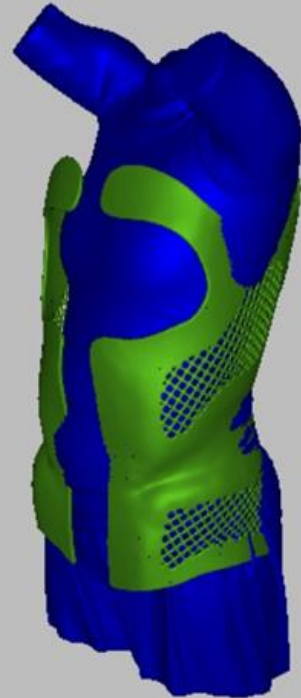


Helping Payal Lead a better life



VEED.IO





The videos show 3D scanning and design process by Altem Team to create this first of a kind brace in India



Treating Black Fungus with 3D Technologies – Government Hospital in Delhi



Mucormycosis: The 'black fungus' is a side effect of covid treatment and has a fatality rate of 50%. Most Black Fungus patients (with weak immunity) face severe maxillofacial damage.

India has reported 50,000 + such cases

Using Scanned data, prosthesis is fabricated to rehabilitate patients who have lost/faced severe damage to maxillofacial regions.





Thank You