A DIGITAL MINI-SPECTACLE FOR SHOWCASING THE GLORY OF HAMPI

Principal Investigator	:	Dr. U. T. Vijay, Chief Scientific Officer
Collaborating Agencies	:	IIT Delhi, CBRI Roorkee, NID, KSCST
Budget	:	Rs. 191.80 lakhs (KSCST: Rs.6.11 lakhs)
Funded by	:	DST, GoI
Duration	:	April 2018 to March 2019

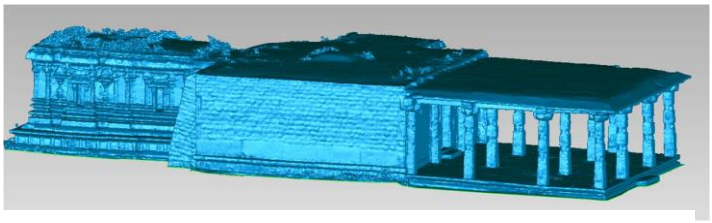
Objectives:

- 3D Laser scanning to generate point clouds (KSCST) of selected monuments of Hampi
- 3D modeling and rendering and development of 3D Replicas
- AR & VR based interactive 3D interface for virtual walkthrough of the monument and other augmented reality interfaces

Progress:

- Participated in Brain storming meeting conducted at Hampi along with other collaborating organizations and representatives from ASI, Hampi to decide the monuments to be taken up for the project
- Prepared digital and physical 3D model of Vittala temple complex to serve as a proof of concept for what can be done in the Grand Spectacle with the whole city of Hampi.
- Carried out 3D Laser scanning of Maha Mantapa (Musical Pillars) with Main Vittala temple along with other monuments in Vittala temple complex. 9 Monuments viz, Maha Mantapa with Vittala main temple, Kalyana Mantapa, Sabha Mantapa, Bhajan Mantapa, Saraswathi temple, Lakshmi temple, Stone Chariot, Garuda mantapa and inside and outside compound wall with 3 Gopurams of Vittala Temple complex.
- Submitted the outputs of 3D Laser scanning of these 9 monuments of Vittala temple complex in Hampi (3D Point cloud data and 3D Mesh Models) for further processing to IIT, Delhi
- 3D laser scanning outputs of Kings Palace basement and audience hall of Hampi provided to NID, Bengaluru for further processing
- Participated in exhibiting the Outputs in International Heritage symposium& Exhibition held at Delhi on 15-16 January 2020
- Final report submitted to DST, GoI.

3D Point Cloud data of Lakshmi temple in Vittal temple



3D Mesh Model of Lakshmi temple in Vittal temple Complex