



G H Patel College of Engineering & Technology, V. V Nagar



## Department of Civil Engineering

### Report on

### Visit to “Cable stayed suspension bridge and Baroda Museum and picture gallery at Sayajibaug and L &T Knowledge city, Vadodara”

Department of Civil Engineering, GCET has organized one day (08/08/18) educational visit to “Cable stayed suspension bridge and Baroda Museum and picture gallery at Sayaji Baug and L &T Knowledge city, Vadodara”. 59 students and 2 faculty member (Dr. Snehal Popli and Prof. Ajay Vaghela) participated in educational visit.

**About the Cable stayed suspension bridge and Baroda Museum and picture gallery at Sayaji Baug:** Sayaji Baug is a garden located in Centre of Vadodara (Baroda). Sayaji Baug was dedicated to the citizens of Vadodara by Maharaja Sayajirao Gaekwad III in Year 1879. Sayaji Baug, well known as Kamati Baug, constructed on the river Vishwamitri. There was a cable-stayed suspension bridge (julta pul) at Sayaji Baug, which connected Zoo and the Park as of Vishwamitri river flows from side of the park. The bridge was also made during construction of Public Park, during 1879. The bridge was one of the main attractions of the garden and was the only suspension bridge of its kind in city. During 1964, the bridge broke down due to heavy rush on the bridge, due to social festival. A newly bridge is now constructed at the same area by L & T Ltd. in 2018. The bridge has a length of 110m and width of 4.75m. 11 cables have been used. The piles of the bridge have height of 28.5 meter. The Baroda Museum and Picture Gallery within Sayaji Baug preserves a rich collection of art, sculpture, ethnography and ethnology. Major attractions of this museum include Egyptian mummy and skeleton of a blue whale. The picture gallery, which was opened in Year 1921, exhibits art works of British painters.

#### **About L & T Knowledge city:**

Green Building has become a new building philosophy, pushing the application of more environmentally friendly materials, the implementation of strategies to save resources and lower waste consumption, and the improvement of indoor environmental quality, among others. The main aim of the visit was to know more about green building construction, their functioning and to learn the application of Green building concepts. Mr. Vinod, Project Manager, has explained about the green initiatives through a presentation. The green building rating was done by Leadership in Energy and Environmental Design (LEED) and received Gold Certification. A green building rating system is a tool that evaluates the performance of a building and its impact on the environment. The manager explained the principles of green buildings which includes water efficiency, energy efficiency, material efficiency and sustainable site design. He explained

efficient light system which they are using, their landscaping, the usage of double glazed glass, functioning of chillers, Albedo paint on roof tops, and many more things.

**Aim of Visit:**

The main aim of visit is to observe the cable stayed suspension bridge and green building. The students learnt about the concept of suspension of bridge and which major parameters are to be taken care while constructing the green building.