SUMMARY REPORT

OF

Field Visit at GIFT City, Gandhinagar

Coordinator– Mr. Devang Sarvaiya

Mr. Ashraf Mathakiya

Location: GIFT City, Gandhinagar

No of Participants: 7

Introduction

On June 25, 2024, a group of 45 civil engineering students from XYZ University visited Gujarat International Finance Tec-City (GIFT City) in Gandhinagar, Gujarat. The visit aimed to expose students to the state-of-the-art urban infrastructure, smart city technologies, and innovative construction practices being implemented in GIFT City.

Objectives of the Visit

1. **Understanding Urban Planning:** To gain insights into the urban planning and development strategies employed in GIFT City.
2. **Innovative Construction Techniques:** To observe and learn about modern construction techniques and materials.
3. **Smart City Technologies:** To study the integration of smart technologies in urban infrastructure.
4. **Sustainable Practices:** To understand the sustainable practices adopted in the development of GIFT City.

Overview of GIFT City

GIFT City is India's first operational smart city and international financial services center. It aims to provide world-class infrastructure and services to attract financial and technology firms. The city is designed to be a hub for financial services, IT services, and other professional services.

Key Features

- **Master Planning:** Spanning 886 acres, GIFT City is designed with meticulous urban planning principles.
- **Infrastructure:** Includes high-rise buildings, wide roads, efficient public transport, and green spaces.
- **Smart City Elements:** Integration of ICT (Information and Communication Technology) to manage city services efficiently.
- **Sustainability:** Focus on sustainable development practices, including green buildings, waste management, and water conservation.

Visit Details

Welcome and Introduction

Upon arrival, the students were welcomed by Mr. R. Patel, the project manager at GIFT City. He provided an introductory session on the vision, objectives, and development phases of GIFT City. Mr. Patel emphasized the city's role in positioning India as a global financial hub.

Urban Planning and Development

The students were taken on a guided tour of the city's key areas. Highlights included:

- **Master Plan:** An overview of the city's master plan, showcasing zoning, land use distribution, and transport networks.
- **Transport Infrastructure:** Examination of the multimodal transport system, including the Automated People Mover (APM) and extensive road networks.
- **Green Spaces:** Discussion on the integration of parks, green belts, and recreational areas to enhance urban living.

Construction Techniques and Materials

The tour included visits to ongoing construction sites and completed buildings. Key observations included:

- **High-Rise Buildings:** Techniques used in the construction of skyscrapers, including deep foundation systems and high-strength concrete.
- **Pre-Fabrication:** Use of pre-fabricated components to improve construction efficiency and quality.
- **Sustainable Materials:** Implementation of eco-friendly building materials and technologies for energy efficiency.

Smart City Technologies

Students were introduced to various smart city technologies employed in GIFT City. These included:

- **ICT Integration:** Use of ICT for real-time monitoring and management of city services, including traffic management, energy distribution, and waste management.
- **Smart Grids:** Implementation of smart grids for efficient energy management and distribution.
- **Building Management Systems:** Advanced building management systems (BMS) for controlling lighting, HVAC, and security systems in buildings.

Sustainable Practices

A session was dedicated to the sustainable practices adopted in GIFT City. Key points discussed were:

- **Green Buildings:** Design and construction of buildings adhering to green building standards, such as LEED certification.
- **Water Management:** Strategies for rainwater harvesting, wastewater recycling, and efficient water distribution.
- **Waste Management:** Comprehensive waste management system, including segregation, recycling, and disposal.

Glimpse of Visit to GIFT City

Gandhinagar, Gujarat, India
5M8M+8WC GUJARAT ELECTRICITY REGULATORY COMMISSION, Gujarat International
Finance Tec-City, Gandhinagar, Gujarat 382355, India
Lat 23.166096°
Long 72.683794°
24/11/23 02:50 PM GMT +05:30