

REPORT OF SITE VISIT

Class- BE-7th SEM, BE-5th SEM

Date:- 27/09/2016

Number of student's present- 24

Places visited- (i) Two High rise buildings in Gandhinagar, (ii) Bridge site at Bapunagar, Ahmedabad (iii) Steel Structure at VS Hospital, Ahmedabad and (iv) Sardar Sarovar Dam, Kevadiya colony.

Number of sites visited- 5

Undertaking by the students- attached

Faculty members accompanying students are listed below:-

- (i) Mr. Pratik Gadhvi,
- (ii) Mr. Ritesh Ramjiani
- (iii) Ms. Dhvani Patwa.

All the facilities were provided by - Self

Food facilities - Self

Visit commenced on 17th of September on Saturday at 9:30 pm.

Day 1 (18/09/2016):

Travel route: Mandvi – Ahmedabad (Gita mandir) - Approx. 410 km

1st site visited route – Gita mandir to Gandhinagar - Approx. 40 km

Name of firm- Parisar Group

Guided by- Harsh Sanghvi

Description of works/items observed/learnt at site: High rise building (7 buildings, each of G+6, each floor contains 4 units), Estimated cost of project- 117 crores

- Architectural Model of whole construction site
- Structural drawings of each element of structure.
- Concreting of Isolated footings- Stepped and trapezoidal in plan

Received by
K. P. Parmar
3/10/2016

- Interpretation of Structural drawings
- RMC plant and concreting through series of pipes
- Reinforcement binding of combined footing by provision of strap beam.
- Basic like Concrete covers, no. of bars for each element, formwork erection procedure, need for provision of joint in structure.

2nd site visited route – Parisar to Siddhraj Z+ - Approx. 3 km

Name of firm- Siddhraj Z+ group

Guided by- Dinesh Desai and Harsh Sanghvi

Description of works/items observed/learnt at site: Residential building (8 buildings, each of G+6, each floor contains 2 units), Estimated cost of project- 196 crores

- Structural drawings of beam, columns, slab and footings
- Elevation of whole project units
- Application of light weight blocks to reduce dead load on elements
- Reinforcement laying – longitudinal and transverse
- Reinforcement detailing at junctions of element
- Importance of safety in construction
- Concept of shear wall and its effect on total moment to be resisted
- Use of Grades, M25 concrete and Fe 500 steel.

Day 2 (19/09/2016):

3rd site visited route – Gita mandir to Bapunagar - Approx. 25 km

Name of firm- Arvee Consultants and Arya Engineers – Ahmedabad Municipal Co. Project

Guided by- Sunil Patel

Description of works/items observed/learnt at site: Bridge- Box type (Hatkeshwar- Hirawadi route, Total length- 585m), estimated cost of project- 45.41 crores

- Introduction to bridge components viz. abutments. Piers, piles, girders spans on drawings
- Actual observation of components on site
- Pile foundation – 18m deep, 6 piles in one row and single pile cap
- Concept of prestressing_ pre-tensioning and post tensioning

4th site visited route – Bapunagar to VS hospital, Ellis Bridge - Approx. 30 km

Name of firm- Ahmedabad Municipal Co. Project, Contractors- Patel group

Guided by-

Description of works/items observed/learnt at site: Gujarat tallest Steel structure (G+ 16 storeys with provision of air ambulance, Height of building-78m from GL, Two basement floor each of 11.5m, estimated cost of project- 514 crores, Total foreign based hospital concept)

- Raft foundation of 130 m X 65 m
- Steel columns, beams and galvanized sheet of 0.9 mm thick slab
- Provision of concrete on steel to protect it from rust
- Bolted connection of 8.8 grade
- Circular columns in plan at basement level
- Use of fly ash blocks- fire resistant upto 850°-1000°C upto 2 hours (Size- 600*200mm and 600*100 mm)
- Provision of total 20 lifts
- No curing concept for masonry work
- Connection of masonry using ferrous chemical

Day 3 (20/09/2016):

5th site visited route – Gita Mandir to Sardar Sarovar Dam (Kevadiya colony)- Approx. 250 km

Name of firm- Narmada Control Authority

Description of works/items observed/learnt at site:

- Underground Tunnel to the Power Plant showing the operating systems of 6 Turbines of 200 MW each
- Control Room of Power Plant with Reversible Pumping Unit
- Dam site along with Spillways, the height of the Dam is 163m and length is 1.21 km
- Lakes connecting the Dam and Canal i.e. route of approximately 22 km
- Cross Head Regulator
- Zero point of Narmada Canal

G. Prudhvi
27/9/16
Pranav
27/9/16
Sign of faculty

[Signature]
21-9-16
Sign of HOD

शिवलय
PARISAR



