

**FROM THE PRESIDENT:**

I feel very much happy with the 2nd issue of the BCEF newsletter in your hand. I am thankful for attending the last general meeting on **29/08/2002** in large number. Friends don't forget that your participation in the activities is the strength of the forum. More than 30 members took the advantage of the early bird scheme on that day. Other members are requested to deposit their annual fees and it is also expected that one new member by each member is inducted. We are sending this newsletter in two copies. Please distribute to at least one of your Civil engineer friend. And if required please make more photo copies.

We had also invited your contribution in making up a suitable logo for the form. Please give your suggestions or come up with ideas as soon as possible so as to finalize it at the earliest. (A suggested brief is as on the left of the heading).

The district collector has sought our (bcef) suggestion for the traffic circle to be developed at Panch Batti. All members are requested to come up in the next meeting with suitable idea so as to make the traffic at the heart of the city streamlined.

With warm regards!

GG Nankani.

**TECHNICAL PRESENTATION****Venue:**

BDMA Conference Hall,  
6th floor, Vaikunth Megha Township,  
Opposite Polytechnic College,  
Bholav, BHARUCH (East)  
Phone- 02642 (28190/26619)

**Time:**

5th October 2002  
6:30 PM to 8:30 PM.

**TOPIC:**

Presentation  
**Latest revision of IS:456 (2000)**

By

Er. SUDHIR GUPTA  
GHARDA CHEMICALS (PANOLI)

Review by  
Er. JIVRAJ PATEL  
Vice President (BCEF)

GROUP DISCUSSION  
TRAFFIC CIRCLE AT PANCH BATTI

**ALL MEMBERS ARE INVITED FOR THE  
MEETING AND HIGH TEA**

Proceedings of the technical presentation **TECHNICAL ISSUES INVOLVED IN WEIR CUM CAUSEWAY ON RIVER NARMADA TO ARREST SALINITY DUE TO BACK SEA WATERS** and **AUGMENTING SURFACE TRANSPORTATION FACILITY BETWEEN BHARUCH & ANKLESHWAR**. (By Shri M.K.Barot, Manager (Civil), GNFC.

A presentation on subject of **"Improvement of water quality in Narmada river around Bharuch"** with help of **"Case Study of Weir Cum Causeway built on river Tapi, at Surat"** on 29/08/2002.. The technical deliberation was aimed at focussing the probable solution for two major problems. First is salinity in waters of Narmada river & second is need for augmentation in existing convenient surface transportation facility between Bharuch & Ankleshwar as a substitute to century old Golden Bridge.

In his colourful & informative slide show, Shri Barot touched upon a very vital & long pending burning issue of Surface transportation between Bharuch & Ankleshwar. Looking to the rapid growth of twin cities in couple of decades and limitation of Centurion Golden Bridge which has outlived its life, he emphasized on the need of a permanent solution to this crucial problem and suggested an alternative remedy by way of constructing a **Weir** cum causeway (WCC) on Narmada. To supplement his thought, he narrated the case study of WCC on river Tapi at Surat and highlighted the benefits, over & above the main objective, envisaged from the proposed scheme.

The members took active involvement in the group discussion by Er. Janak Vakil, Er. Jivraj Patel, Er. Tarak Mamlatdarna, Er. I.J.Jani, Er. GG Nankani and others.

The presentation was very well appreciated by group of participants which included Executives, Consultants and Businessmen in the fields of Civil Engineering, Design & Construction & all members of BCEF.

**Editorial Committee:**

- |                     |                    |
|---------------------|--------------------|
| 1. Er. Chirag Baxi  | 4. Er. D.A.Patel   |
| 2. Er. Rajiv Vaidya | 5. Er. Bakul Patel |
| 3. Er. Nitish Patel | 6. Er. U.J.Shah    |

**Member: (Name & Address)**


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**Announcement**

1. The logo for the Forum is to be made. Please suggest suitable logo based on the name, motives and area of activities.

2. Please give news/articles/events/suggestion for the newsletter to the editorial committee.

#### OBJECTIVES OF THE FORUM

1. To serve the society for better living conditions and help the local administration in creating and maintaining good infrastructure .
2. To develop quality awareness for durable civil engineering structures.
3. To create environmental awareness.
4. To educate technicians and supervisors for good construction practices.
5. To bridge the available local resources with the suitable new developments.
6. Set up a Rural development cell for awareness regarding water, roads, housing .
7. To interact amongst the civil engineers for exchange of ideas, information, know-how etc.

#### Executive Committee:

President: Er. GG Nankani (Ph: 46910)  
Vice President: Er. Jivraj Patel (Ph: 42981)

Secretary: Er. Nitish Patel (02646-51779)  
Jt. Secretary/Treasurer:  
Er. Tarak Mamlatdarna (Ph: 29541)

Members: Er. Kalpesh Bhatt (Ph: 30483)  
Er. Bipin Bhatt (Ph: 40178)  
Er. Chirag Baxi (Ph: 37417)

#### GOLDEN TOP TEN FOR HARMONY

1. **Speak to people.** : There is nothing so nice as cheerful words of greetings.
2. **Smile at people.** : It takes 72 muscles to frown while only 14, to smile.
3. **Call people by name.** : The sweetest music to anyone's ears is the sound of own name.
4. **Be friendly & helpful:** If you have friends, be a friend.
5. **Be cordial.** : Speak & act as if everything you do is a genuine pleasure.
6. **Be genuinely interested in people.** : You like almost everything you try.
7. **Be generous with praise but cautious with criticism.**
8. **Be considerate with feelings of others** : There are 3 sides of a controversy. Yours, the others & the right one.
9. **Be alert** to give service. What counts in life is what you do for others.
10. Add to this a good **sense of humor**, a big dose of patience & a dash of humanity & you will be rewarded many fold.

#### REPORT OF AMERICAN SOCIETY OF CIVIL ENGINEERS ON FAILURE OF WORLD TRADE CENTER

American Society of Civil Engineers (ASCE) has prepared a report on failure of WTC (collapsed on 11/09/01) which has been published in August issue of "Civil Engineering & Construction Review"

There are 3 obvious reasons of failure. Each reason has been described below.

1. **Aircraft Impact:** Of the two hijacked Boeing 767 planes, the first traveling at 766 Km/h speed, hit WTC 1 at 8.46 AM between floors 94 & 98. The building had collapsed one hour forty-eight minutes later. The second plane hit the WTC 2 at 9.03 AM at speed of 944 kmph between floors 78 & 84. It collapsed after fifty-six minutes after the hit. Total fuel carried by both the planes was 44000 Gallons.

2. **Fire:** A huge fireball resulting from the impact precipitated the failure of the towers. Some blast type over pressures developed through lift shafts from burning vapors. The fuel helped burn all combustible materials on the floors involved, bringing temperature to 1000 degree C. in a series of separate fires, assisted by ready supply of air from breaking windows. Such a major impact would have rendered the fire protection systems useless.

3. **Structural Failure:** Will be some localized floor collapses occurred near the impact, the load, originally supported on the floors by the external columns were transferred to other load paths. Although loads were successfully redistributed after the impact, returning the building to stable state, the structure's Global strength was generally degraded. It therefore had limited ability to resist additional severe loading event, such as that produced by heavy winds or earthquakes. Sagging of horizontal framing elements because of heat combined with loading of derbies, would have resulted in pancake failure of floors. The dynamic effect of falling floors, would have further hastened the collapse.

4. The report says that despite sustaining massive damage, these towers remained standing long enough for 99% of people to escape from parts of the building below the crash impact zones in each one.

#### Think it Over:

Make yourself an honest and then you may be sure, there is one rascal less in the world.

**CONCRETE IS FOR EVER -MAKE IT THAT WAY**  
Indian Concrete Institute