



# **BHARUCH CIVIL ENGINEERS FORUM**

(Reg. No. GUJ/847/Bharuch. Under Society Act 1860)  
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From the desk of President

Dear Engineer Friends,

I am extremely happy to present before you the 4th issue of the bulletin.

Due to sudden change in the programs of the MP and MLA's of Bharuch the presentation on Weir cum Causeway scheduled on 19/01/03 had to be postponed to 15/02/03. So the technical visit cum picnic program to Narmada Dam. The program could not be arranged in March and April due to the academic examinations. We will plan it in the winter now.

We are now preparing for the presentation before the Hon. Chief Minister of Gujarat in the middle of May. We hope we would succeed in getting the implementation of this very important project, which will solve the long due requirement of Sweet Water of the residents of Bharuch & Ankleshwar who will breath the sigh of relief on it's completion.

Hoping to meet you shortly. Till then by by and Hari – Om.

G.G. Nankani

## **TECHNICAL PRESENTATION CUM DISCUSSION ON WEIR CUM CAUSEWAY ON RIVER NARMADA AND KALPSAR PROJECT.**

On 15/02/2003 a presentation & evening talk was organized on the topics of " Sweet water Problem of Bharuch & Ankleshwar" as well as " Kalpasar Project" for Gujarat.

The welcome speech by our president Er G.G.Nankani & floral welcome of dignitaries and speakers by our members,

### **Kalpsar Project:**

The talk on Kalpasar Project was given by Shri Belani, a close associate of Shri Anil Kane the originator of Kalpasar project. He explained that this is a 56 KM long Multifacility Weir Project which on its completion will store about 1400 crore cubic meters of Sweet Water in the 9 rivers i.e. Narmada, Dhadhar, Mahisagar, Mesawo, Watrak, Sabarmati, Bhagwo, Ghelo and Kanubhar. It can easily cater to the Drinking, Irrigation and Industrial requirements of North Gujarat as well as part of South Gujarat including Bharuch Distirict. It can also generate about 5000 MW of Hydro Electricity. The project is estimated to cost

Approx. Rs. 35000.0 Crores and is likely to take 20- 25 years for its completion.

### **Weir cum Causeway on river Narmada:**

Er. M.K.Barot – Manager Civil GNFC made presentation on the hardcore problem of Sweet Water Availability to Bharuch & Ankleshwar towns and its surrounding villages and Industries as well as the traffic linkage between the twin towns. This problem is going to be further aggravated in coming days when the Golden Bridge will be closed to traffic by next 5-6 years due to it's old age of 125 years and the Narmada Dam will attain it's full height. He proposed a solution to this problem by constructing a Causeway - Cum – Weir near Golden Bridge with elaborate reasoning. This project will cost approx.Rs. 100.0 Crores and can be completed in 2-3 years period.

The participants which included Shri Mansukhbhai Vasava, Shri Rameshbhai Mistry – Honourable MP and MLA of Bharuch respectively, Many local political leaders, well known Industrialist Shri Anandpura, Ex MD- NCPL & SD- GNFC Shri J.K.Shah, prominent citizens of Bharuch and Knowledgeable Members of BCEF, gave encouraging remarks and appreciated the efforts put by BCEF in highlighting the hardcore problems of Bharuch District. After long deliberations on this issue, all Unanimously accepted that since, Kalpasar is a High Cost & Long term Project, it will be in the interest of people of Bharuch & Ankleshwar District to go for Causeway Cum Weir at the earliest.

Secretary, Er. Nitesh Patel gave the vote of thanks. The program was covered by Local TV Channels like Narmada, CT, Bharuch In and National Channel Zee.

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## **TECHNICAL PRESENTATION**

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

**Time:** 4th May 2003 - SUNDAY  
9:30 AM to 12:30 PM.

**TOPICS:**

**Common cracks in structures and its remedies.**  
**Common cracks in structures and its remedies.**

By Er. Janak Vakil  
Consultant (Ankleshwar)

**Presentation on Use of software by Civil Engineers**

By : Mr. Deepak Shah  
Roshni Computers (Vadodara)

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

**Salient features of the discussions and deliberations made by BCEF about the Golden Bridge and the Causeway Cum Weir over River Narmada**

➤ Drinking Water:

Acute shortage of drinking water in Bharuch, Ankleshwar & su

➤ Effluent pipe line:

There is a proposed Effluent Pipeline project by Bharuch Eco the cost of Rs. 122.00 Cros. The cost can be reduced to a great e

➤ Availability of more water in river Narmada & Tapti canal existing industries will take water from the weir.

➤ Increase in agricultural area due to assured source of irrig

➤ The money invested can be recovered in very short durati

**Recommendations & Concluding Remarks**

**River front development**

- Fisheries,

1. Sounding investigations should be carried out to find out health of existing piers for its load capacity.
2. The existing expansion joints should be replaced by with epoxy based material.
3. Since the golden bridge has outlived its service life, it is necessary to construct another bridge or Causeway cum weir o
4. Golden bridge should be preserved as Heritage structure.
5. River front should be developed along both the banks.
6. Railways have experience of maintaining thousands of similar steel bridges across the country. They have stan procedure, which should be followed by PWD for this bridge also for its longevity.

➤ Industries:

Asia'a largest chemical industrial zone of Ankleshwar, Panoli & Zagadia are facing the water scarcity. The increasing be fulfilled only with this solution for continual industrial growth. Dahej mega estate also is benefited for its water require requirement of 1000 MLD of water for industries, towns, villages & irrigation can be fulfilled with this arrangement.

➤ Irrigation:

Approximately 4000 Hectares of additional land gets irrigation to increase the productivity by about Rs. 20.00 Crores.

➤ Salinity:

According to a report, about 55% of cultivable land of Bharuch District is going to be affected by SALINITY INGRESS b having water containment in upstream, this severe problem can be tackled. A great advantage in Agriculture.