SIGNATURE BRIDGE

Shiv Kr Sharma[1]. Praduem Kummar[2], Samik Sharma[3]
[1,2]B.Tech in Civil Engineering, [3]Assistant Professor
MVSIT, SONIPAT

This bridge is made with the help of cantilever spar cable. This bridge is span on the Yamuna river passes the Wazirabad area. Mainly it bconnects the Wazirabad and major areas of delhi such as Preetvihar, Vivekvihar, Shahdara, Mayurvihar, Patparganj etc. Steel and concrete plays an important role in the construction of this bridge. Delhi government decided the name of this bridge is SIGNATURE BRIDGE. This bridge is the India's first highest bridge in the past bridges construction.

If we saw the past of the bridges in year 1998 a biggest or longest construction of bridge draft plan was finalized. But due to lack of manpower and financial problem creates bad situation during the construction. These situations are directly effect the timing of the bridge construction. The estimated cost of construction was rs 100 crore but it increases to rs 875 crore. But 244 crore rupees was senctioned by the PBDB. In 2004 construction of work started in full swing. In 2013 the finishing of work was 2016 but on that time work does not complete on promiss. In the past deadline of the construction is 2010 common wealth games.Since 6 times, deadlines set. But In 2018 the inauguration was done in November. It is important to put the load of Bhajanpura and Ghaziabad bound the traffic on over 100 years old ailing Wazirabadbridge.

I. DETAILS OF BRIDGE

Cantilever spar cable stayed bridge, is a type of cable and our signature bridge is also made by this cable. This bridge have the arrangements of cable in the radial and semi harp and in this the cables are spaced apart on the pylon, like the harp design, but connect to one point or a number of closely spaced points on the deck. The lenth of the bridge is 675m and widness is 35.2m. Built on the Yamuna river. Delhi to North east Delhi is considered by this grand bridge. The uppar part or as we can say that the toppest part of the bridge will also have the facility to transport the tourist on top of the main pillar for the distant views of North Delhi just like the Effel tower in France. The bridge is one of the mainly infrastructure pojects that are presently being built in New Delhi.

II. DIMENSIONS OF OUR SIGNATURE BRIDGE

- Structural design company:- SchlaichBergermann partner
- Contractor:-Tensa India construction Cidade and Joint venture gammon India
- Main span:- 251 m
- Height of pylon:- 165 m above ground
- Total length of infrastructure project:- 6km
- Lanes:-2*4
- Deck surface:-25000msq
- Total lenth of bridge:-675m (incl.100 m west extension)
- Side span: 36m
- Structural steel pylon:- 5800 tonne
- Structural steel deck:-7400 tonne
- Open foundation:-6 Nos
- Closed foundation:-16 Nos

Fact file

- Client:- DELHI TOURISM AND TRANSPORTATION DEVELOPMENT CORPORATION
- Designer:-SchlaichBergermann and partner,Germany in JV with Construma Consultancy PVT. LTD.(CCPL)Mumbai
- Architectural Advisor:- Ratan J. batlibotArchitactsPvt LTD. Mumbai
- Wind tunnel studies:- Wacker Engineers, Germany
- Construction:- Gammon(c.cidadeTensacciai JV)

Characteristics of the signature bridge

- Material – Steel and concrete
- Total lenth – 675 m (2215ft)
- Width – 35.2m (115ft)
- Height – 165 m (541ft)
- Longest span- 251m (823ft)
- Stay curves – 19

ADVANTAGES OF SIGNATURE BRIDGE

- It stops the traffic jam on those bridges which connects the Delhi to East Delhi because this bridge is very wide.
- This bridge is a tourist spot in Delhi.

DISADVANTAGES OF THE SIGNATURE BRIDGE

- Many peoples are dead or accidents are occurred by the misshapen during the clicking of selfies and photos on bridge.
- Sometimes tourists and viewers Vehicles are Encircles the sides of bridges and it creates movement of vehicles tough.

Very important information

When the Construction was starts in 2004 our delhi chief minister was Sheila Dikshit.

When the construction was completed in 4 NOVEMBER 2018 our Delhi Chief minister was ArvindKejriwal.

 Copyright 2019.All rights reserved.