



# MODEL EXHIBITION

## INTRODUCTION

Bridges are one of the most magnificent and significant structures that serve the purpose of road connectivity in cases of inaccessible terrains.

The Problem Statement requires the participants to design (preliminary) a bridge and then make a miniature model of the same.

Given picture represents the location of the bridge:

## PROBLEM STATEMENT

Haldia Port, which forms the gateway to Bay of Bengal for numerous cargo and shipping vessels remains one of the busiest ports in India.

The transportation of freight and cargo across the river is currently being fulfilled by the following: -

- Waterways between Diamond Harbor and Haldia Dock.
- Railways enrouting all the way till Bagnan to cross the river at a later stage.

The proposed bridge is supposed to ease the ferry traffic between Haldia Dock Port to the opposite bank of Hooghly. It is also supposed to reduce the goods transportation time.

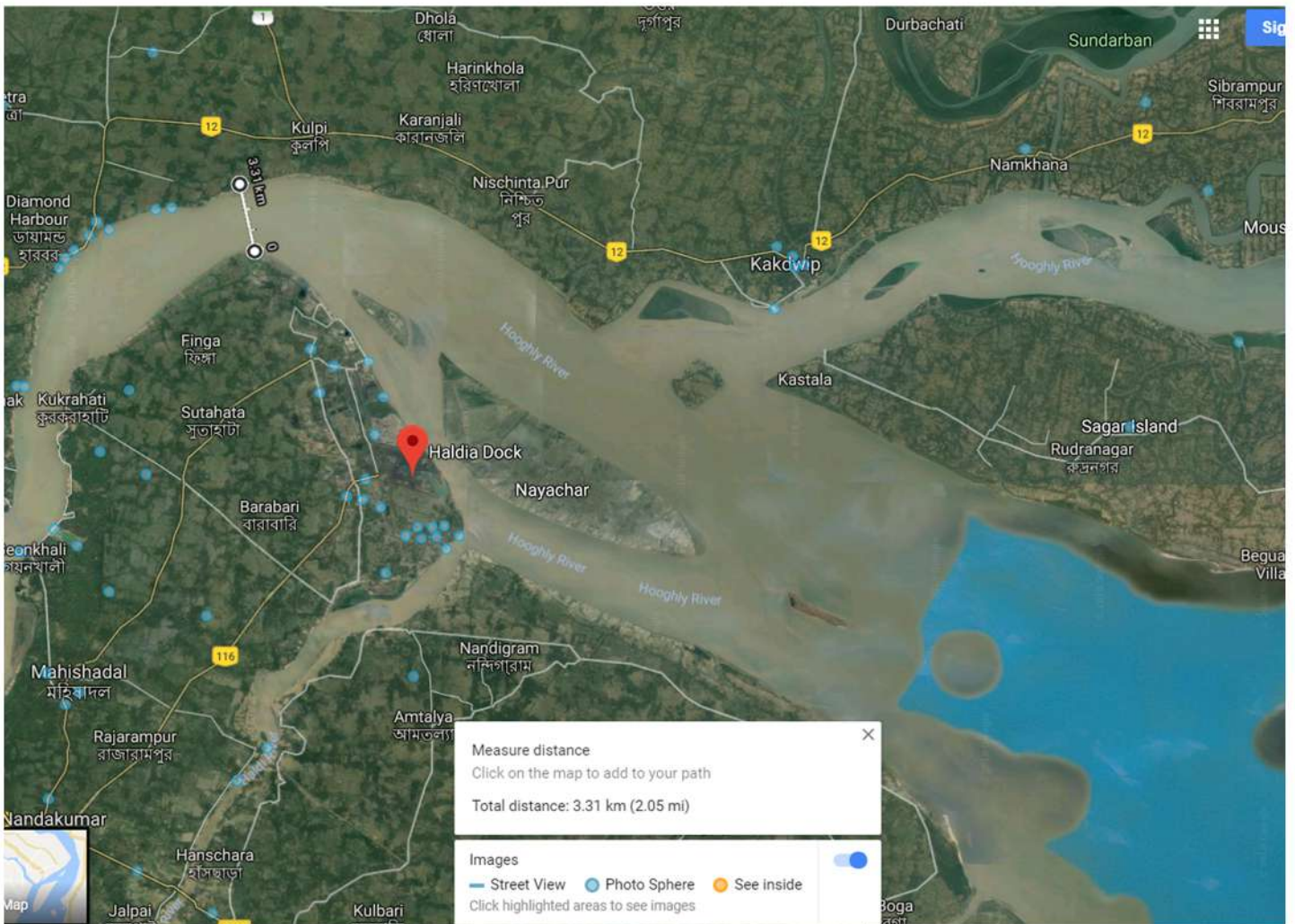
**Participants are expected to consider the following points while designing the bridge:**

- Participants are free to decide upon the type of bridge they want to build as per the site location.
- The bearing capacity of the soil is assumed to be  $150 \text{ KN/m}^2$
- Traffic Forecast for deciding the number of lanes.
- Seismic Activity of the particular region.
- Wind Intensity in the region etc.

**Participants are required to submit a report of their model, which consists:**

- Discussion/argument supporting their choice of type of bridge.
- All the relevant data which are needed for the design can be assumed/estimated by quoting the source or by detailed calculations which are needed to be clearly explained.

Given picture represents the location of the bridge:



Location coordinate on Google Map: (22.107589, 88.206896)

# RULES & REGULATIONS

1. The event is open to all.
2. Team must consist of minimum 2 member and maximum of 5 members.
3. The model should be handmade with household and stationary tools.
4. Readymade and factory model are not acceptable.
5. Teams have to present the detailed idea behind all features of the model within 10 minute and there will be a query session of 5 minute at the end of the presentation.
6. The decision of judges shall be final and binding.



# JUDGING CRITERIA

Report: 20%

Detailing/Modelling: 30%

Presentation: 30%

Q/A: 20%

# CONTACT US

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