EXAMPLE PROBLEM STATEMENT

Design a Cable stayed or suspension bridge

Instructions:

- 1. Minimum free span (Distance between two piers) should be 750 mm and not more than 1200 mm.
- 2. Minimum span of the bridge should be 1350mm.
- 3. The deck width may vary between a minimum of 200 mm to a maximum of 250 mm.
- 4. Height of Bridge should not exceed 1000mm.
- 5. Clear distance between deck and ground should not be less than 200mm.
- 6. Other than design for keeping the bridge to stand no other construction is allowed at the base.

Material provided:

Wood, Thread, pins, adhesive, hammer and saw

**Drill will be available with NIRMAAN team members.

Scoring and judging criterion:

- 1. Maximum Load (in Kg) at which the structure fails.-50%
- 2. Asthetics.-25%
- 3. Amount of wood used.-20%
- 4. Time taken to complete the design.-5%

^{**}Decision made by the judges will be final and binding.