



megalith  
DEPARTMENT OF CIVIL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY  
KHARAGPUR



# MEGALITH PRESENTS MODEL EXHIBITION



# SMART VILLAGES

“The Village is the cell of the national body and the cell life must be healthy and developed for the national body to be healthy and developed.”

-Sri Aurobindo

## INTRODUCTION

Models encapsulate various engineering wonders and styles of architecture used in civil engineering over the ages. A **model** is a miniature representation of any structure, both natural and man-made, that depicts its form, style and pattern. Models revive our imagination. So, elicit the artist hidden inside you!

## PROBLEM STATEMENT

Around **70** percent of India's population lives in rural areas. There has been a gradual increase in migration from villages to cities primarily for livelihood opportunities, better education, and healthcare facilities, among others. The rising burden on urban cities due to migration emphasises the need to transform villages so that they can meet the critical as well as aspirational needs of the villagers. This can be done using innovative technologies and transforming the service delivery models for villages. Transformed villages are called **Smart Villages**. One of the key challenges in developing Smart Villages is ensuring their sustainability.

**Participants are expected to design Smart Village with the objective to spur social, economic and infrastructural development and then make a miniature model of the same.**

### **Services required for smart village:-**

1. Democratic engagement - Good governance, Social development.
2. Healthcare – Medical Facilities.
3. Environmental development.
4. Education.
5. Local business - economic development and employment.

### **Note:-**

1. Assume area of the village to be **2** sq. km with a population of **5000** people.
2. Make relevant assumptions, if required.
3. Participants are required to submit the report which includes the design of the model and its description.
4. Report must not exceed **15** pages.

## **RULES AND REGULATIONS**

1. The event is open to all.
2. The team must consist of a minimum of **2** members and a maximum of **5** members.
3. The model should be handmade with household and stationary tools.
4. Readymade and factory model are not acceptable.
5. Each group should present the list of materials used for making the model.

6. Teams have to present the detailed idea behind all features of the model within **10** minutes and there will be a query session of **5** minutes at the end of the presentation.

7. The decision of judges shall be final and binding.

### **Judging criteria:-**

- Report: - **10%**
- Economic feasibility: - **10%**
- QA: - **20%**
- Detailing: - **20%**
- Presentation: - **20%**
- Innovation: - **20%**

**Note:** - Participants are requested to keep their models ready before the exhibition starts. No time would be provided for repairing the model in case of breakage or damage during the presentation.

## **CONTACTS**

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