



T-WORKS FOUNDATION

A Government of Telangana Initiative



T-Works Proto League 2023

Date: 02-08-2023

Team : Naam toh suna hoga

Theme: Kinetic Art

Project Name: " Ripple Blossom "

Sub - Project proposal for "Ripple Blossom " - T-Works Proto League 2023

Objective:

To create kinetic art which showcases the delicate dance of lotus and the ripple effect in a pond, captivating the viewer with seamless integration of art and motion by using interactive elements.

Technical Specifications:

Kinetic Art Type: Wave Simulation with Cam Mechanism

Overall Dimensions: 1000mm X 1000mm X 500 mm

Motion: Vertical motion of lotus and leaves, horizontal wave-like motion of acrylic fins, mimicking water.

Power : Battery operated 12V

Interactive Control: ESP32-based motion control

Integrated sound box with synchronised audio effects

Features:

- Wave Simulation
- Interactive Motion
- Aesthetic Resin Art
- Illuminated Leaves
- Ambient Lighting
- Synchronized Sounds

T-Works Foundation is a registered company u/s 8, Companies Act 2013

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tworks.telangana.gov.in

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Design and Engineering Concepts :

- Cam Mechanism: The cam mechanism will be carefully designed to achieve the desired movement pattern.
- ESP32 Integration: The ESP32 will be integrated into the system to enable gesture-based control of the lotus movement.
- Soundbox Implementation: The soundbox will be engineered to produce synchronised sounds corresponding to the lotus movements.
- Structural Integrity: The design will focus on ensuring the overall structure's stability and longevity.
- Electrical Integration: The LED lighting and interactive motion control will be seamlessly integrated into the artwork.
- Wave motion: The wave motion will be generated using gears.

Team and Their Roles:

| | |
|------------------------------|-------------------|
| Zund Operator | Devanand |
| Mechanical Design Engineer | Siva Charan |
| Mechanical - Design Engineer | Abdul Wahab |
| Mechanical Design Engineer | Masrath |
| Mechanical Design Engineer | Talha Adil |
| Finance- Documentation | Niharika |
| Market Research | Sai Kishore Yadav |
| Wood Craftsmen | Omar |

Estimated expense:

<https://docs.google.com/spreadsheets/d/1cLosqcCHsQCCB95bpb9-xiTbJfeGP7E6/edit#gid=1663910846>

Amount- ₹ 19,984

Attached spreadsheet" Project cost estimate"

