



CSIBER Trusts  
**CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION  
AND RESEARCH (CSIBER) KOLHAPUR**

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
**Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)**

**Best Practice**

**1. Title:- CO2 Footprint Reduction and Noise Pollution Control Initiatives :  
Testing of Firecrackers of Different Brands and Different Manufacturers in collaboration  
with Maharashtra Pollution Control Board (MPCB), Regional office Kolhapur**

**2. Objectives of the Practice**

When fire crackers are burned, metal salts and explosives undergo a chemical reaction that releases many toxic chemicals into the atmosphere in the form of smoke this includes carbon di oxide, Carbon Mono oxide and Nitrogen Oxides. Toxic gases and pollutants emitted during burning of crackers contaminate air, water and soil and are harmful to birds wildlife, pets and human beings they Seriously affects a person's mental health and cause hormonal imbalance. Elevated sound levels generated during bursting of firecrackers can cause restlessness, temporary or permanent hearing loss, high blood pressure and trouble sleeping in human and animals.

The activity is carried being carried out every year before the Diwali festival with the following objectives

- To test Sound levels generated during bursting of fire crackers which are available in Local market.
- To make inventory of the values and compare these values with the limits set by local Governing bodies
- To identify and enlist the fire crackers brands which create more than 120 dB sound levels
- MPCB officials associated with this activity will take a necessary action on these brands

**4. The Context**

Diyas or lights symbolise the triumph of light over darkness and good over evil. There are many reports and books to prove that ancient Indians were aware about gunpowder and firearms. Carbon di oxide and Nitrogen Oxides are green House gases responsible for global warming and subsequently for climate change, besides the role of nitrogen Oxides in acid precipitation and

Address: University Road Kolhapur, 416004.  
Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)  
Contact: 0231-2535706/2535707 Fax: 02312535708





CSIBER Trusts

## CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION AND RESEARCH (CSIBER) KOLHAPUR

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
**Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)**

classical smog and photochemical smog formation

Fireworks can also cause breathing problems like chronic or allergic bronchitis, Bronchial asthma, sinusitis, and Pneumonia

### 5. The Practice

Under this activity students from all the departments of CSIBER are invited. MPCB officials gives briefing about the higher sound levels generated, their effects on human being animals and ecosystem with the objective to create awareness among the students. Officials of MPCB from Kolhapur region and Kolhapur Municipal Corporation collaborate this activity. MPCB officials bring maximum available brands of different manufacturers. Sound level generated during this testing are measured with sophisticated sound level meters with the help of students and technical staff of CSIBER Environment Department. Reports are prepared and sent to Petroleum and Safety organization through MPCB officials for necessary actions. Corresponding Manufacturers are further informed and adviced to make necessary changes in their products.

### Limitations

- Spiritual emotions of many students and people.
- Time specific activity to be carried out ahead of Diwali Festival
- All samples which are available in market cannot be selected for testing

### Evidence of Success

Tab. 1 Performance against Set Targets for last Four Years

Sr. No	Event	Year2018/19	Year-2021/22	Year-2022/23	Year-2022/23
1	Number of firecrackers Brands tested	18	18	18	18

Awareness created through this activity by CSIBER, MPCB and Kolhapur Municipal Corporation is getting more and more effective.

Address: University Road Kolhapur, 416004.

Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)

Contact: 0231-2535706/2535707

Fax: 02312535708





CSIBER Trusts  
**CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION  
AND RESEARCH (CSIBER) KOLHAPUR**

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
**Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)**

### 1. Problems Encountered and Resources Required

**Problems**-Restriction of Ethical Mindsets of few peoples.

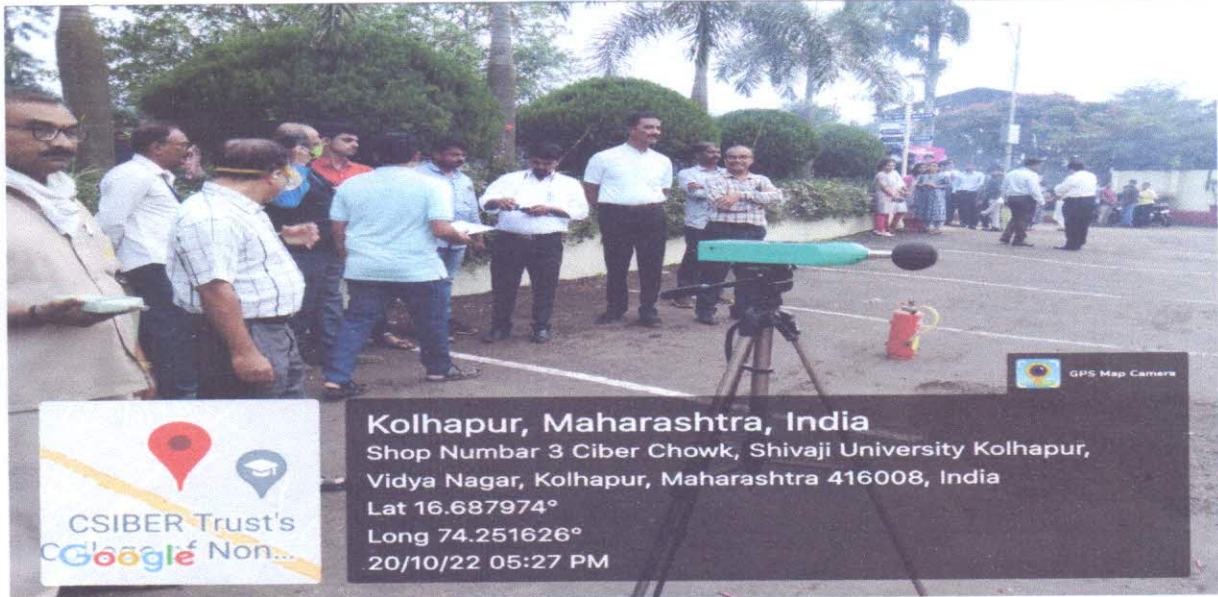
**Resources required**:- Man Power, Sophisticated Sound level meter, Expert technician, Environment Expert, Mobile Fire Extinguishers, Firefighters from Kolhapur municipal Corporation.

### 2. Notes (Optional)

**Student**: Increase in convincing skill of the student, Improvement in Practical understanding of Environment related issues and solving methods for that. Increase in instrument handling skill like Noise Pollution Monitoring equipment's on field.

**Society**: Society may get awareness about the festivals celebrated and their Environment related issues and problems arisen.

Other colleges can organize Training programmes regarding the measurements of sound levels generated during different festivals through the students which are trained in this aspect.



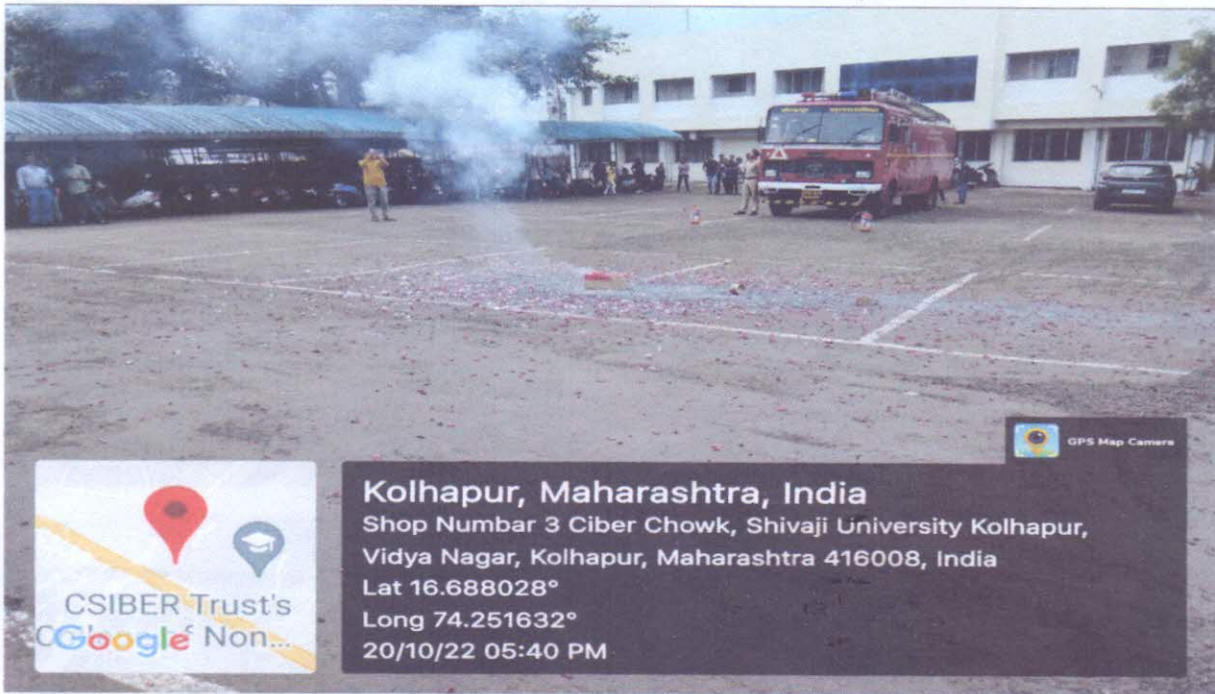
Address: University Road Kolhapur, 416004.  
Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)  
Contact: 0231-2535706/2535707 Fax: 02312535708





CSIBER Trusts  
**CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION  
AND RESEARCH (CSIBER) KOLHAPUR**

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
**Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)**



**Kolhapur, Maharashtra, India**

Shop Number 3 Ciber Chowk, Shivaji University Kolhapur,  
Vidya Nagar, Kolhapur, Maharashtra 416008, India

Lat 16.688028°

Long 74.251632°

20/10/22 05:40 PM



Address: University Road Kolhapur, 416004.

Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)

Contact: 0231-2535706/2535707

Fax: 02312535708





CSIBER Trusts

## CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION AND RESEARCH (CSIBER) KOLHAPUR

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)



Dr A. R. Kulkarni  
Prof. & Head,  
Department of Environment Management  
CSIBER, Kolhapur



Address: University Road Kolhapur, 416004.

Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)

Contact: 0231-2535706/2535707

Fax: 02312535708



CSIBER Trusts

## CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION AND RESEARCH (CSIBER) KOLHAPUR

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)

1. Title:- **Ecofriendly Ganesh Festival and Water Pollution Awareness**  
Workshop on  
**Eco Friendly God Ganesha Idol Making**  
Resource Person : Ms. Pooja Sarokar, CNCVCW, Kolhapur

### 2. Objectives of the Practice

Ganesh Festival is a popular festival in the Maharashtra. Ganesh Festival is the biggest festival celebrated for five/ ten days in Kolhapur and nearby areas. As this festival is very popular and old traditions and rituals are followed by most of the people unknowingly it contribute in the pollution of nearby water reservoirs and adding in air pollution. The objectives of this activity is as follows.

#### Objectives of this activity

- a. To create awareness in people about the adverse effects of Ganesh Idol made from Plaster of Paris and synthetic chemical Paints on Human and Environmental Health
- b. To aware public regarding ecofriendly celebration of Ganesh Festival
- c. To create awareness regarding Water Pollution during Ganesh festival.
- d. To create awareness about Ecofriendly Ganesh Idol/ Moorti made up of natural clay and natural colour, and to give training for making such idols through proper trainers

### 3. The Context

Ganesh Chaturthi, also called Vinayaka Chaturti , is an auspicious Hindu festival which is celebrated for 10 days every year. Ganesha is known as the God of wealth, sciences, knowledge, wisdom and prosperity, and that's why most Hindus remember him and seek his blessings before starting any important work.. An environmental friendly approach is rarely seen and it leads to environmental problems. Now it is a need of time to celebrate Ganesh Chaturthi in an ecofriendly friendly way.

Over the years with growing environmental awareness, few people have started celebrating Ganesh Chaturthi in an ecofriendly way. But still awareness is needed in this regard. Thus lack

Address: University Road Kolhapur, 416004.

Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)

Contact: 0231-2535706/2535707

Fax: 02312535708



CSIBER Trusts

## CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION AND RESEARCH (CSIBER) KOLHAPUR

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)



of awareness about ecofriendly options to celebrate this festival among the people becomes a cause of natural resource deterioration. As sustainability is a watchword of today's environment and health conscious people, it becomes a necessary activity to aware people regarding natural resource conservation for sustainability. When ecofriendly options suggested through ecosystem approach they are convinced and turn towards these options.

Water pollution: During this festival number of ritual practices are followed by general public which causes water pollution. Moortis of Plaster of Paris dissolves slowly and synthetic colors / paints used are enlisted hazardous chemicals adversely affects aquatic life. Nirmalya thrown in water bodies give foul odor, adds in water pollution and affect aesthetic value.

#### 4. The Practice

Under this activity students from all the departments of CSIBER are invited and selected students are given training on the preparation of Ganesha Idol from natural clay material. Well-known artists from our area are invited as trainers to give training on processing clay and Idol making. They are suggested to use natural materials for coloring and decoration of Idol. Their mistakes are rectified by trainer. Best Idol is selected by expert panel and will get certificate. At this occasion an expert session is conducted on the unknowingly created pollution due to Ganesh Festival and the way to get rid of that.

Student participating in Idol making activity with other student of the department and faculty members arrange rallies just before the festival in local areas to aware the general public and different Ganesh Mandals to celebrate Eco friendly God Ganesha Festival.

#### Limitations

- Spiritual emotions of many students and people about God Ganesha become obstructions to take self-made idols to home and worship.
- Cost of Natural Clay Ganesh Moorti and Plaster of Paris (Used mostly) are not comparable so poor people cannot afford Ecofriendly Ganesh murti.

Address: University Road Kolhapur, 416004.

Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)

Contact: 0231-2535706/2535707

Fax: 02312535708





CSIBER Trusts

**CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION  
AND RESEARCH (CSIBER) KOLHAPUR**

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
**Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)**

**5. Evidence of Success**

**Tab. 1 Performance against Set Targets for last three Years**

Sr. No.	Event	Year-2021/22	Year-2022/23	Year-2023/24
1	Number of clay Moortis made in last training session	20	30	30

It can be easily depicted from this table that number of student participation for Ecofriendly Moorti preparation is increasing year wise.

**6. Problems Encountered and Resources Required**

**Problems**-Restriction of Ethical Mindsets of few peoples.

**Resources required:-** Man Power, Clay, Expert Trainer for Murti , Environment Expert

**7. Notes (Optional)**

**Students:** Improvement in Practical understanding of Environment related issues and solving methods for that. All these benefits such type of practices should be adopted by Institutes having Environment related programmes in their curriculum.

**Society:** Society may get awareness about the festivals celebrated and their Environment related issues and problems arisen through the participant students. People also get awareness about the pollution and its adverse effects on human health. Thus socially accepted solutions are found through this activity to tackle the pollution arisen during festivals. Society may have more safe and clean enjoyable Environment.



Address: University Road Kolhapur, 416004.

Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)

Contact: 0231-2535706/2535707

Fax: 02312535708





CSIBER Trusts  
**CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION  
AND RESEARCH (CSIBER) KOLHAPUR**

An Autonomous Institute under UGC, New Delhi and Shivaji University,  
College with Potential for Excellence (CPE) III Phase,  
Reaccredited by NAAC with 'A+' Grade (CGPA 3.55)



*A. R. Kulkarni*

**Dr. A. R. Kulkarni**  
Prof. & Head,  
Department of Environment Management  
CSIBER, Kolhapur



Address: University Road Kolhapur, 416004.  
Website: [www.siberindia.edu.in](http://www.siberindia.edu.in) email: [director@siberindia.edu.in](mailto:director@siberindia.edu.in)  
Contact: 0231-2535706/2535707 Fax: 02312535708