

## Best Practice No. 1

**Title of the Practice:** Best from Waste

### Objectives:

- Aware students of waste management.
- To inculcate the social responsibility of students towards society.

**Context:** Reusing waste paper in making useful things is a need of the future. To

reuse waste and create awareness among students about waste management, the department of chemistry make medicine envelope from old papers of practical records and assignment notebooks.

**Practice:** Dept. of Chemistry makes an envelope from evaluated old practical records and assignment notebooks. These envelopes are distributed to nearby government hospitals for the distribution of medicines.

**Evidence of success:** 25 thousand envelopes have been distributed to a rural hospital, Arjuni/Morgaon. The Hospital distributes its medicines in these envelopes.

**Resources required:** Old Practical record book and assignment books.



## Best Practice No. 2

**Title of the Practice:** Floor cleaner preparation

### Objectives:

- To create awareness among people and students regarding hygiene.
- To create interest among students in industrial products.

**Context:** To prepare Floor cleaner in the chemistry laboratory lower than the market cost and utilize for the requirement of the institution.



**Practice:** Students prepare floor cleaners in the chemistry laboratory under the guidance of teachers, utilized for the institution and distributed them to the government hospitals.

**Evidence of success:** Reduced the cost of cleaning in the institution and hospital.

**Resources required:** Water, raw material, waste empty bottles.

### Best Practice No. 3

**Title of the Practice:** To develop "Miyawaki" dense forest.

#### Objectives:

- To create and spread awareness among the society to restore ecosystem by developing mini forest. (Native Species Conservation, Diversity Conservation, small area and large Diversity, Germplasm preservation, Habitat and niche for the dependent species).
- For students' live repository for plant study and identifications.



**Context:** Due to deforestation and loss of biodiversity its urgent need to restore the eco-system by developing mini forest through Miyawaki Method.

**Practice:** Miyawaki is a technique pioneered by Japanese botanist Akira Miyawaki that helps build dense native forests. The approach is supposed to ensure that plant growth is 10 times faster and the resulting plantations is 30 times dense than usual. Site of area (55m x 13 m =715 sq. m.) has been selected for miyawaki. To determine soil texture and nutritive value. Marking has been done to dig a pit of 1x1 & pit distance is 1 foot. Then make a mixture of soil, husk and cow dung in the ratio (80:10:10) respectively. Select 650 native plants from 22 varieties collected from the social forest nursery for the plantation. There was active participation of college students, college staffs and Management for plantation. Proper arrangement has been done to water. The plants fencing has been done to protect the plants form grazing animals.

**Resources required:** Manure, fertilizer, garden tools for weed management, water, labours for maintenance.

**Evidence of success:** With the help of students, staff and trustee the Miyawaki plantation has been done.

## Best Practice No. 4

**Title of the practice:** Azolla cultivation

### Objectives:

- Help and aware farmers for the applications of azolla in farming.
- Cultivation of Azolla.
- Students participation in Azolla cultivation and distributions to local farmers.



**Context:** Due to excessive use of chemical fertilizers soil fertility is decreases and its impact of crop yield due to this as a green manure the institution aware the local farmers for the utilization of Azolla.

### Practice:

- The institution already built a tank in the premises for the cultivation of Azolla.
- The department of microbiology aware the students whose parents' occupation is farming about Azolla role in the agriculture specifically the role in nitrogen fixation and hands-on-training of cultivation.
- The Azolla culture distributed free of cost to local farmers.
- Some sort of other aspects also checks regarding Azolla like fodder of cattle to increase the protein content in the milk.

**Resources required:** A artificial tank holding water, water and Azolla culture.

**Success of evidences:** The institution successfully run this programme since more than 5 years.