

Dnyandeep Shikshan Prasarak Mandal, Chandrapur

Dr. Khatri Mahavidyalaya Tukum, Chandrapur



BEST PRACTICES

ACADEMIC YEAR

2022-2023

Co-ordinator

Dr. M.G. Thakre

Principal

Dr. J.M. Kakde

PREFACE

Best practices added values to human life and support main goal of an institution. It can change the life of whole institution as well as individual stakeholders. These practices are able to instill the scientific approach to issues or problems of the society. The quality becomes an imperative in best practice; it should impart quality in its outcome and must be beneficial for stakeholders. The college has adopted environment friendly policies on plantation and waste management.

Nature provides free services to all. In recent years, environmental problems have increased by human activities and development of science and technology and planet earth is facing tremendous pressure from increases in population. Humans have contributed global warming which has led to catastrophic climate change in many parts of the world. People have to work for benefit of the planet and reduce emission in appropriate way. Colleges have a responsibility to install green lifestyle among the young and high profile students by undertaking green moves which can help to lower the global temperature.

In the present write up “best practices” report, outline existing scenario of campus. A brief content of this report would help everyone to think about preserving resources, show willingness to learn their importance, adopt steps to minimize resource use and set an example for others to follow the path of best practices to achieve the goal of sustainable development.

We express our deep sense of gratitude to the Chairman of the of Dnyandeep Shikshan Prasarak Mandal, Dr. N. H. Khatri and management body of DSPM and Dr. J.M. Kakde, Principal of the college for their support in preparation of the report.

It is our pleasure to acknowledge Dr. N.R. Dahegaonkar, IQAC coordinator for his support and encouragement during the preparation of report. We are grateful to Dr. Sushil B. Kapoor sir, for his unwavering support.



Dnyandeep Shikshan Prasarak mandals

Dr. Khatri Mahavidyalaya, Tukum, Chandrapur

Late. Maladevi Nandkishor Khatri Library

Innovative Ideas in Library

Title of the Practice: Innovative Ideas in Library

1) Objectives of the Practice: The objective is to promote reading, knowledge, and education through book donations, which can help communities, instructors, and students alike.

2) Context

Book donations are crucial to the development of knowledge-based communities. Books are vital to all educational, informational, creative, and developmental processes. In addition, they are a vital instrument for fostering social and intercultural discussion as well as democracy. Books offer knowledge on a variety of topics, including industry, sports, education, economics, politics, and important local, national, and worldwide studies. The joy of reading, which fascinates millions of people of all ages every day, can only be found in books.

3) The Practice

On the occasion of the birthday, it was decided unanimously to donate the books to the library under the chairmanship of honorable principal of the college. The choice of books to donate to the library is entirely voluntary for staff members, and anyone celebrating a birthday is welcome to do so. Books on competitive examination, science, technology, history, economics, and general topics are donated by teachers and supporting staff. This exercise helps students because it provides them with a variety of books for reading and preparation. This activity is distinct from the regular purchase of books for the library. Students are informed about books beyond their curriculum. They read books regularly and understand the essence of reading. The teacher always guides them in their selection of books.

4) Evidence of Success

Student feedback as an effective tool for achieving the success in this activity

Session: 2021-2022

Sr. No.	No. of the Staff	No. of Books Donated	Price
01	33	98	22487

Session: 2022-2023

Sr. No.	No. of the Staff	No. of Books Donated	Price
01	33	128	38458



Principal Dr. J. M. Kakde Giving Well-wishes to Secretary of DSPM Dr. S. B. Kapoor



Secretary of DSPM Dr. S. B. Kapoor gifted books to the library on the occasion of his birthday



Principal Dr. J. M. Kakde giving well-wishes to Mr. Pramod Raut



Principal Dr. J. M. Kakde giving Well-wishes to Treasurer of DSPM Sau. Anushree Parashar

डॉ. खत्री महाविद्यालय तुकूम - चंद्रपूर

ग्रंथालय विभाग

शिक्षक व शिक्षकेत्तर कर्मचारी यांनी जन्मदिनानिमित्त ग्रंथालयाला दिलेली सप्रेम भेट पुस्तके.

सत्र : २०२१ - २०२२

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२)	प्रा. रवि वाळके सर	०२	३३५.००
३)	डॉ. दहेगावकर सर	०१	१९४.००
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१०)	हर्ष खोब्रागडे	०१	२५०.००
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१२)	डॉ. अशोकराव माधनकर सर	०२	५५०.००
१३)	डॉ. वंदना वैद्य मॅडम	०१	३००.००
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१५)	डॉ. माधवी पॉल मॅडम	०२	५००.००
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२०)	श्री. केशवराव गौरकार	०४	१२००.००
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		एकूण :- ९८	एकूण किंमत : २२४८७

डॉ. खत्री महाविद्यालय तुकूम - चंद्रपूर

ग्रंथालय विभाग

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१)	श्री. पिंपळकर	०१	३००.००
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८)	डॉ. एस. बी. कपूर	०५	३६३९.००
९)	डॉ. टि. एम. शेख सर	०६	१८७४.००
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१२)	प्रा. सुप्रिया सादलवार	०१	३७५.००
१३)	डॉ. रवि वाळके सर	०३	१८५९.००
१४)	डॉ. एन. आर. दहेगावकर सर	०२	३७४०.००
१५)	प्रा. कु. रोहणकर	०२	३३८.००
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१७)	डॉ. गुडधे सर	०४	१२४७.००
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२०)	डॉ. अशोक माथनकर सर	०१	३००.००
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		एकूण :- १२८	एकूण किंमत: ३८४५८

डॉ. सती महारिवालय, तुळुम, बंदपूर तेवील शिवाय व शिवाकोर कर्मचारी बाजी
आपल्या जन्मदिना निमित्त संवाल्यास खंडम मेट दिल्ली पुरलक.
२०२१-२०२२

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B-MI-R-3



Best Practice1

1. Title of the Practice Estimation of biomass of trees

The most often produced greenhouse gas is carbon dioxide. The technique of removing and storing carbon dioxide from the atmosphere is known as carbon sequestration. It is one way to lessen atmospheric carbon dioxide in an effort to slow down the rate of climate change.

2.Objectives of the Practice:

Estimation of biomass of trees is a tool for getting information of growth contained within a single tree, a species, or a population. Based on the weight of the trees, the potential of trees to capture carbon dioxide can be assessed effectively. Estimation of biomass of trees is a routine practice of the college.

3.Context:

Planting trees is important because to clean the air we breathe. Trees add beauty to their surroundings by greening and cooling the campus area. Measurement of the tree trunk is the best practice to calculate weight, which further can be useful to calculate the carbon dioxide capturing capacity of the tree.

4.The practice:

In the college grounds, Ms. Mamta Rahele, Ms. Pratiksha Bhusari, and Mr. Aditya Rathod of M.Sc. Semester IV conducted the activity of measuring tree basal area. The amount is then translated to tonnes of tree biomass. Later, the trees' overall capacity to store carbon was determined. This endeavour is a significant step towards the campus's green audit

Estimation of biomass of trees is a unique practice for carbon sequestration

- a) Meeting of staff is the first step to take stock of trees on the campus
- b) Identification of trees with a girth more than 30 cm
- c) Counting all the trees at breast height
- d) Summarising all the data for final conclusion

5.Evidence of Success:

Such practice is significant for research in forestry for staff and students. People outside the campus can also be benefited from the aesthetics of the campus and fresh surrounding

6.Problem encountered:

The unevenness of the tree trunk creates problems during the measurement

7.Resources required:

Basic accessories such as measuring tape and calculators are required for the collection and analysis of the data.





GPS Map Camera



Google

Chandrapur, Maharashtra, India

X8M2+VC4, DOC Rd, Biyani Nagar, Tukum,
Chandrapur, Maharashtra 442404, India

Lat 19.984881°

Long 79.301082°

19/01/23 01:10 PM GMT +05:30



GPS Map Camera



Google

Chandrapur, Maharashtra, India

X8M2+VC4, DOC Rd, Biyani Nagar, Tukum,
Chandrapur, Maharashtra 442404, India

Lat 19.984922°

Long 79.30105°

19/01/23 01:13 PM GMT +05:30

Best Practice 2

1. Title of the Practice:

Utilization of AC condensed water in a laboratory

2. Objectives of the Practice:

Energy conservation is important for reducing dependence on conventional energy resources, it also helps save energy costs and energy bills. Overuse of water leads to scarcity of water and lowers the groundwater table. AC condensed water if properly collected can be utilized for many purposes. Our college has taken initiatives for its use in the laboratory for practical purposes.

3. Context:

The distilled water generation in the laboratory as well as procured from the market yields a high cost. The energy required to heat the water to boiling in the water distillation process is expensive, in this context the utilization of AC condensed water is effective to best use in the laboratory for general practices and washing laboratory glassware.

4. The practice:

Collection of AC condensed water with the involvement of students is beneficial because

- a) The additional cost of distilled water generation in the laboratory is reduced to its maximum
- b) Cost of energy is reduced
- c) The time required to generate water is also reduced
- d) Raw Water required to produce distilled water is also reduced
- e) Students could learn the importance of water and energy conservation
- f) The distilled water demand of the laboratory is fulfilled

The collection and utilization of AC condensed water involve the following activities.

- a) The Meeting is organized at the start of the session
- b) All the formalities like the use of fresh PVC container for a collection of AC condensed water is completed
- c) AC condensed water from principles cabin is routinely collected
- d) Water quality parameters are checked before use for laboratory practices
- e) The routine laboratory practices are performed using AC condensed water

f) Surplus water is also used for washing glassware

g) The quantity of condensed water obtained from the AC is adequate to fulfil the demand

h) The cost of purchasing distilled water from the market is almost negligible

5.Evidence of Success:

This approach is attracting the attention of the students. Prior to being used in the laboratory, they routinely gather and test the water to determine its purity.

6.Problem encountered:

The collection efficiency of AC condensed water is reduced during non-operation of air conditioner.

7.Resources required:

Except for the PVC containers and active participation of staff and students, no other resources are required



Figure 3-Demonstration on “Air Conditioners Condensed Water

