



राज्य शैक्षिक अनुसंधान एवं प्रशिक्षण परिषद्, हरियाणा
गुड़गांव -122 001
State Council of Educational Research & Training, Haryana
Gurgaon-122 001

To

All District Education Officers,
Haryana

Memo No: Science/2024/2933

Dated : 30-09-2024

Subject: Regarding Celebration of Rastriya Avishkar Saptah- 2024-25

This is with reference to letter no PC(science)SS 13098 dated 18-09-2024 regarding the program **Rastriya Avishkar Saptah** under the theme "**Promotion of Tree Plantation and Water Conservation**" as part of the Rashtriya Avishkar Abhiyan (RAA) 2024-25.

This year's activity is "**Plant a tree in the Name of Mother**". Guidelines for plantation drive are enclosed herewith. **The DSS will be the district nodal officer for this activity.** You are hereby instructed to start the plantation activity across all schools of your district to promote environmental awareness, sustainability and the spirit of scientific inquiry among students and send the report in 15 days from the commencement of activity.


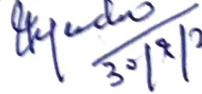
Attachment: (1) Guidelines for tree plantation drive

(2) Letter from the o/o SPD


Joint Director

Copy to

1. Director School Education, Shiksha sadan Panchkula for information
2. SPD, HSSPP, Panchkula
3. DEEOs (ALL)
4. Academic Cell Panchkula


Joint Director

30/9/24



Ref. No. PC(Sci.)/SS/- 13048

Date: 18/9/2024

To

The Director
SCERT
Haryana, Gurugram

Subject: Regarding celebration of Rashtriya Avishkar Saptah 2024-25.

Kindly refer to the subject cited above, and a letter received from NCERT, New Delhi dated on 02.09.2024 regarding conducting a programme called, "Rashtriya Avishkar Saptah" 2024-25 (RAS) every year with the objective to engage students in scientific exploration and inculcation of experimentation skills. This year too observation of RAS 2024-2025 has been planned on the theme "Promotion of Tree-Plantation and Water Conservation". This activity is proposed to be aligned with the call of the Hon'ble Prime Minister of India, to "Plant a tree in the Name of Mother." Guideline for the tree plantation drive is enclosed. The same is also available on the NCERT website, www.ncert.nic.in.

Smt. Poonam Yadav, HOD, Science Wing, SCERT will coordinate as overall State incharge for the activity. DSS will work as District Nodal Officer under instruction of Smt. Poonam Yadav, HOD, Science Wing, SCERT to organize the activity in all Govt. Schools. She will submit the report to HSSPP Panchkula within 15 days after the commencement of activity.

-Sd-

Sh. Jitender Kumar, IAS
State Project Director
HSSPP, Panchkula

Date: 18/9/2024

Date:- 06.09.2024

Place: Panchkula

Endst. No. - 13099-13101

A copy of above is forwarded to following for information:

1. PS/SPD for information of W/SPD.
2. PA/JSPD for information of W/JSPD.
3. Smt. Poonam Yadav, HOD, Science Wing, SCERT.

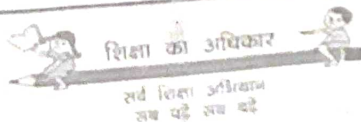
Sec. Wing
25/9/24

S.C.E.R.T. (HR)
Gurugram

Diary No. 3834

Date: 25/09/24

Associate Consultant
HSSPP, Panchkula



शिक्षा का अधिकार

सर्व शिक्षा अभियान
सब पढ़ें सब बढ़ें

RASHTRIYA AVISHKAR SAPTAH (RAS) 2024-2025

TREE PLANTATION DRIVE

GUIDELINES

Introduction

Tree plantation is a vital activity for sustaining the environment. Trees play a crucial role in maintaining ecological balance, improving air quality, and providing habitat for wildlife. They act as natural air filters, absorbing carbon dioxide, and releasing oxygen, which is essential for all living beings. Additionally, trees help prevent soil erosion, conserve water, and mitigate climate change effects. Tree plantation is immensely important from the point of view of the overall development of children as a responsible citizen with sensitivity to the environment. Engaging in tree planting activities would create environmental awareness, in terms of its vital role in maintaining ecological balance, absorbing carbon dioxide and producing oxygen besides supporting biodiversity. It will also provide hands-on learning experiences, allowing children to gain practical knowledge about biology and ecology in a memorable way. Caring for newly planted trees instills a sense of responsibility and encourages a greater appreciation for nurturing living things. Additionally, outdoor activities like tree planting promote physical health and enhance mental well-being by reducing stress and providing a sense of accomplishment. These activities also build teamwork and collaboration skills, fostering a sense of community feeling among students. The trees planted by children serve as a living legacy, reinforcing the idea that their actions can make a long-lasting and positive impact on society. Thus, incorporating tree plantation into school activities enriches students' educational experiences and helps them grow into environmentally conscious and responsible individuals.

In alignment with the Hon'ble Prime Minister's initiative to emphasize tree plantation in the name of the mother, "*Ek Ped Maa Ke Naam*" this year's theme for *Rashtriya Avishkar Saptah* (RAS) encompasses activities focused on **"Promotion of tree plantation and water conservation."** The following guidelines pertain to the tree plantation activity in the first phase to be undertaken by school students of classes 5th to 12th. Guidelines for the promotion of water conservation shall be available on the NCERT website soon.

Planting local trees holds significant importance for both the environment and the community. Local tree species are well-adapted to the region's climate, soil, and ecosystem, which ensures their healthy growth and sustainability. These trees provide essential habitats and food sources for native wildlife, promoting biodiversity and supporting the balance of local ecosystems. By planting local trees, we also preserve the genetic heritage of the area, maintaining the unique characteristics and resilience of indigenous plant

species. Local trees are typically more resistant to local pests and diseases, reducing the use of chemical fertilizers and promoting a healthier environment. They contribute to the stability of the soil, preventing erosion and enhancing soil fertility through natural leaf litter and organic matter. Additionally, local trees often require less maintenance, making them more efficient and cost-effective for urban and rural landscaping projects. Furthermore, planting local trees fosters a sense of community and connection to the land. It encourages students to learn about and appreciate their natural surroundings, instilling a sense of pride and stewardship. This community involvement can lead to increased environmental awareness and collective efforts to protect and preserve local ecosystems.

Role of students

- Who can participate: Students from classes 5th to 12th can participate in the tree plantation drive.
- Active Participation: Planting trees, watering them, and ensuring their growth.
- Learning and Education: Gaining knowledge about different types of trees, their benefits, and how to take care of them.
- Community Involvement: Encouraging community members to participate and educating them on the importance of tree plantation.
- Environmental Stewardship: Developing a sense of responsibility towards the environment and adopting sustainable practices.

Role of teachers

- Guidance and Supervision: Guiding students in the correct techniques of planting and caring for trees.
- Organizing the event: Coordinating the tree plantation drives and related activities within the school and community.
- Mentorship: Serving as role models in environmental conservation and inspiring students to take initiative.
- Planning and Execution: Both students and teachers can collaborate in planning the tree plantation drive, selecting appropriate sites, and ensuring the necessary resources are available.
- Monitoring and Maintenance: Establishing a system to regularly monitor the growth of the planted trees and address any issues that arise.

Steps for tree plantation

Planting a tree involves several steps to ensure its healthy growth and long-term survival. Here are the key steps for a successful tree plantation:

1. **Select the Right Sapling:** Choose a tree species that is well-suited to the local climate, soil, and environmental conditions. Native or local tree species are often the best choice. Talk to teachers, elders and grandparents to know which tree grows best in your area. You may also contact the local forest department office or a nursery in your nearby locality. Schools are expected to facilitate such consultation. You can select plants like Teak, Tamarind, *Peepal*, *Banyan*, etc., and avoid planting shrubs such as Rose, Hibiscus, Jasmine, Banana plant, Henna, etc. Students should explore the local name and the botanical name of the sapling and the same may be reported in the Google form. However, names of the trees given above are suggestive. Schools may choose trees as per local habitat of the area.
2. **Number of saplings to be planted:** Plant at least 10 to 15 saplings in the school campus or nearby areas in the locality where there is proper light, water facilities and also where children can take care of them.
3. **Choose the Planting Site:** Identify a suitable location with good soil quality for planting the sapling in your school/ neighbourhood with the help of your teacher. Ensure the site has enough space for the sapling to grow to its mature size without obstruction from buildings, power lines, or other trees. Check the soil quality and drainage to make sure it is suitable for the chosen tree species. If the current site exhibits poor soil conditions, such as being classified as Barren land i.e., *Banjar* or *Osar Bhumi*, remedial action is required. Specifically, a larger planting pit should be dug and filled with fertile soil procured from an external, more suitable location. This approach will provide a more appropriate environment for tree growth and health.
4. **Prepare the Soil:** Clear the planting area of weeds, grass, and debris. Loosen the soil to a depth of at least 12 inches to help the plant's roots establish. If necessary, mix in compost or organic matter to improve soil fertility. Take pictures of this step.
5. **Dig the Pit:** Dig a pit which is two to three times wider than the plant's root ball and just as deep. This will help the roots to spread and establish themselves. Make sure that an adult person supervises the activity and take pictures of this step to upload on the Google form.
6. **Remove the Tree sapling from Its Container:** Gently remove the tree sapling if it has a container or plastic wrapping. If the roots are tightly bound, carefully loosen them to help them in outward growth.
7. **Place the Sapling in the Pit:** Carefully position the tree sapling in the center of the pit. Ensure the top of the root ball is in level with or slightly above the soil to prevent waterlogging. Take pictures of this step.
8. **Backfill the Pit:** Fill the pit with the soil gently. Water the soil to help settle it around the roots. Take pictures after completing this step.

9. **Water the plants:** Water the plants appropriately after planting. This helps settle the soil and provides essential moisture to the roots.
10. **Mulch Around the Plant:** Apply a layer of mulch (dried leaves, straw, etc.) around the base of the plant, extending out to the drip line. Mulch helps retain moisture, regulate soil temperature, and suppress weeds. Keep the mulch a few inches away from the-plant to prevent rot.
11. **Protect the plant from grazing:** If you have planted the tree in areas within the reach of grazing animals make sure the plant is protected using some eco-friendly twigs, bamboo sticks, etc. around the plant. Take pictures of the plant after completing the step.
12. **Stake the plant (if necessary):** If the plant is in a windy area or has a weak stem, stake it for support. Use soft ties to secure the plant to the stakes, allowing some movement to encourage strong trunk growth.
13. **Water Regularly:** Ensure the plant receives regular watering, especially during the first few years until it establishes its root system.
14. **Monitor and Maintain:** Keep an eye on the health and growth of the plant. Prune any dead or damaged branches, and watch for signs of pests or diseases. Continue to water and mulch as needed. Take pictures of your tree every week to record the progress.

Following steps will help ensure your plant grows into a healthy and thriving part of the landscape. Make sure to take pictures of the tree at every step.

Precautions to be followed while planting

1. **Wear Appropriate Clothing:** Ensure to use long sleeves, and sturdy shoes to protect against thorns and insects.
2. **Be Mindful of Allergies:** Be aware of any allergie(s) you may have for plants or insects. Take necessary precautions, such as using insect repellent or wearing protective clothing.
3. **Respect Wildlife:** Be aware of and respect any wildlife you may encounter during the planting process.
4. **Seek Supervision:** If you are unsure about any aspect of tree planting, seek guidance from your teacher or someone experienced to ensure safety and proper technique.
5. **Avoid Overwatering:** Ensure proper drainage to prevent waterlogging, which can suffocate roots.
6. **Handle Roots Carefully:** Be gentle when handling roots to avoid damaging them, as healthy roots are crucial for the tree's survival.

7. **Avoid Planting Too Deep:** Do the plantation at an appropriate depth so that the root collar is slightly above ground level, as planting too deep may lead to the decaying of roots.
8. **Protect Against Wildlife:** Use tree guards or fencing to protect young plants from grazing animals, such as cows, goats, rabbits, etc.
9. **Use of Manure/Fertilizers:** As far as possible, children should be encouraged to use manure or compost instead of chemical fertilizers as it is natural and chemical fertilizers can harm the tree and the surrounding environment.
10. **Monitor Growth:** Regularly inspect the tree for signs of stress, disease, or pest infestation, and take appropriate action promptly.
11. **Practice Good Hygiene:** Wash your hands thoroughly after handling soil or plants to remove any potential contaminants.

PROCEDURE FOR FILLING GOOGLE FORM

Filling up Google Form is very easy. You need to have a Gmail account for filling this Google form

1. Once you have a working Google ID (Gmail), you can open any browser and copy/ type the following URL into browser:

<https://forms.gle/d3cgziGfnPsidnoCA>

2. Click on fill out form on the front page.
3. It will take you to the Section 1 where you need to enter personal details.



Data submission form - RAS 2024 | डाटा प्रस्तुति फॉर्म

The name and photo associated with your Google account will be recorded when you upload files and submit this form. Your email is not a part of your response.

desmncctras2024@gmail.com

Instructions | निर्देश

Click on the following link and go through the PDF carefully before proceeding further | आगे बढ़ने से पहले, नीचे दिये लिंक पर क्लिक करें तथा PDF को ध्यानपूर्वक पढ़ें।

Help | सहायता

Checkout announcement section on ncert.nic.in for all the updates regarding RAS 2024

For any assistance/help, kindly email us at

desmncctras2024@gmail.com | RAS 2024 के बारे में अधिक जानकारी के लिए ncert.nic.in पर घोषणा अनुभाग देखें। किसी भी तरह की सहायता के लिए हमें

desmncctras2024@gmail.com पर ई-मेल करें।

The name, email, and photo associated with your Google account will be recorded when you upload files and submit this form

* Indicates required question

Poster of Tree Plantation Drive for Rashtriya Avishkar Saptah 2024-2025



E-mail *

Your answer

Name of the Student *

Your answer

Class of the Student *

Choose

4. After clicking on Next button, you will be taken to Section 2 of the Form, where you have to fill your State, District and School details like School Name, Address etc.

School details | विद्यालय विवरण

State/Union Territory | राज्य/केंद्रशासित प्रदेश *

Choose ▾

City / शहर *

Your answer _____

Name of District | जिले का नाम *

Choose ▾

Block / Town / Sector where School is located | ब्लॉक / टाउन का नाम जहाँ पर विद्यालय स्थित है *

Your answer _____

Name of School | विद्यालय का नाम *

Your answer _____

U-DISE code School | विद्यालय का यू-डाइस कोड

Your answer _____

Is your school a PM Shri school? / क्या आपका स्कूल पीएम श्री स्कूल है? *

Yes

No

I don't know

Pin code | पिन कोड *

Your answer _____

Locality of School (Urban/Semi-urban/Rural) | विद्यालय के अवस्थिति (शहरी/अर्ध-शहरी/ ग्रामीण) *

Rural | ग्रामीण

Semi-urban | अर्ध-शहरी

Urban | शहरी

Name of School Principal/Head of School | विद्यालय के प्रधानाध्यापक/ संचालक का नाम *

Your answer _____

Name of Teacher(s) involved in guiding the activities | क्रियाकलापों के समय मार्गदर्शन करने वाले अध्यापक/ अध्यापकों का नाम *

Your answer _____

Designation of Teacher(s) involved in guiding the activities | क्रियाकलापों के समय मार्गदर्शन करने वाले अध्यापक/ अध्यापकों का पद *

Your answer _____

5. After clicking on Next button, you will proceed to Section 3 of the Form. In this section, you have to fill the data for Activity.

Activity / गतिविधि

Name of the 1st sapling selected for plantation / वृक्षारोपण हेतु चयनित प्रथम पौधे का नाम *

Your answer _____

Name of the 2nd sapling selected for plantation(If planted) / वृक्षारोपण के लिए चयनित दूसरे पौधे का नाम (यदि लगाया गया हो)

Your answer _____

Name of the 3rd sapling selected for plantation(If planted) / वृक्षारोपण के लिए चयनित तीसरे पौधे का नाम (यदि लगाया गया हो)

Your answer _____

Was the soil prepared for tree plantation ? / क्या वृक्षारोपण के लिए मिट्टी तैयार की गई थी? *

Yes

No

What was the source of collecting the tree sapling for plantation ? / वृक्षारोपण के लिए पौधे एकत्रित करने का स्रोत क्या था? *

Local Nursery

Neighbourhood

Nearby forest

Others

Area selected for plantation / वृक्षारोपण हेतु चयनित क्षेत्र *

School Premises

Neighborhood

Public Place

Other: _____

The tree plantation is dedicated to whom in your family ? / आपके परिवार में वृक्षारोपण किसको समर्पित है? *

Grand Father / Father

Grand Mother / Mother

Other: _____

Photograph of tree planted along with the student / छात्र के साथ लगाए गए पेड़ की तस्वीर *

6. After this, you have to click on Submit button to finally submit your Form.

Note: You can check your responses again by clicking on the Back button before making Final submission. No changes can be made after Final submission of the Form.



7. After submission, a message will be received “Your response has been recorded”.

8. After this, you may close the window/ tab of your web browser.

For any assistance/ support, kindly email us at:

desmncertras2024@gmail.com