



भूमि फाउंडेशन ट्रस्ट

Reg.No.: 43/2021

C-28/68-A, तेलियाबाग, वाराणसी

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ईन्टर्नशिप प्रमाण पत्र

क्र०सं० :- BFT/ 2023-24/ 0005

दिनांक :- 12.07.2023

यह प्रमाणित किया जाता है कि श्रीमान हरीश बरनवाल, पुत्र - श्री संजय कुमार बरनवाल, निवासी : इस्माईलपुर (निहोरगंज), पोस्ट- कलिचाबाद, हिलालपुर, आजमगढ़, उत्तर प्रदेश - (पिन कोड - 276201), शिक्षा संस्थान : लवली प्रोफेशनल यूनिवर्सिटी, फगवारा, जो बी० टेक० कम्प्यूटर साइंस के छात्र है।

जिन्होंने दिनांक 23 जून 2023 से 10 जुलाई 2023 तक (30 घण्टे) अपनी इंटरनशिप पूरी की हैं।

अपनी इंटरनशिप अवधि के दौरान हमारी देखरेख में काम किया और उन्होंने भूमि फाउंडेशन ट्रस्ट द्वारा दिये गये हर एक कार्य को सफलतापूर्वक पूरा किया है।

हम जीवन में हर सफलता की कामना करते हैं।

अधोहस्ताक्षरी

For BHUMI FOUNDATION TRUST

Pankaj K. Singh

Authorised Signatory

पंकज कुमार सिंह

भूमि फाउंडेशन ट्रस्ट

तेलियाबाग, वाराणसी

Annexure A

Title Page

Community Development Project
On
“Per Lagaye – Jeevan Bachaye”

Submitted by:

Harish Baranwal

Registration Number

12204079

In partial fulfillment for the requirements of the award of the degree of
“B. Tech. in Computer Science and Engineering”



“School of Computer Science and Engineering”

**Lovely Professional University
Phagwara, Punjab.**

Acknowledgement

I would like to express my special thanks of gratitude to my project guide **Mr. Pankaj Kumar Singh** and **Mr. Soumen Dutta** (Bhumi Foundation Trust) as well as our University which gave me the golden opportunity to do this wonderful Community Development Project. The success and outcomes of this project require a great deal of guidance and support many people. Everything I have done is just thanks to such supervision and support. I would also like to thank my parents and my fellow friends who helped me a lot in finalizing this project within the limited time period.

Date: 25 August 2023

Name: Harish Baranwal

Registration ID: 12204079

Roll Number: RK22SKA02

About the NGO

Bhumi Foundation Trust is a Non-Government Organization, that looks after the plants and nature. Their main goal is to protect plants and make sure they stay safe. They believe that plants are essential for our planet's health, and they work hard to teach others about their importance.

This Trust is highly dedicated to environmental conservation and the promotion of sustainable practices. As a Plant Foundation, their core focus lies in advocating for the protection and preservation of plant life. Founded by a group of passionate environmentalists and botanists, the organization strives to address critical issues related to deforestation, biodiversity loss, climate change, and habitat destruction.

The mission of the Bhumi Foundation Trust is to foster a profound sense of environmental responsibility and reconnect people with nature by emphasizing the significance of plant life in the ecological balance of our planet. Through education, community engagement, and conservation efforts, the organization aims to create a world where plant species thrive, supporting a sustainable and biodiverse ecosystem.

NGO Social Media Pages:

Facebook : <https://www.facebook.com/bhumifoundationtrust/>

Twitter : https://twitter.com/Bhumi_Trust

Instagram : <https://www.instagram.com/bhumifoundationtrust/>

Linkedin: <https://www.linkedin.com/company/bhumi-foundation-trust/>

Introduction

The introductory idea of community development is for local participation and the organization of local residents to meet the challenges faced by the communities. The Community Development Project that I have been working on since June 23, 2023 under the guidance of an NGO (Bhumi Foundation Trust) on this topic was basically all about spreading social awareness about afforestation and also apprehensive people about planting trees and is positive side effect.

This NGO handed me with the stylish platform to partakes through my views through my blog. The main objective of NGO is to adopt a green and clean environment by planting trees and to protect plants and make sure they stay safe. The NGO also has started the fundraiser program in which people are requested to donate on humanitarian grounds. A few meetings were held during the volunteering periods. The idea is simple- every individual and family should take it ownership of the environment. We understand it very much that People may not be able to plant trees in the area where they live, we live for various reasons. So, we deal with everyone using as many trees as you like through this program.

Problem Identification and the Causes of problem

Our earth cannot survive without trees. They contribute to climate control, air purification, and wildlife habitat. However, deforestation is a significant issue, and the number of trees we are losing is worrying. Because of this, it is crucial that we concentrate on planting trees today. We can reduce climate change, enhance air quality, and build a more sustainable future for our world by planting trees. So, I chose to work with any Plantation NGO.

These are the following major causes that are imposing threats to the trees and plants.

1. Lack of Knowledge:

I live in a village of Azamgarh district of Uttar Pradesh and the condition here can be understood by the fact that many villagers have not heard the word Global Warming yet. There is a problem here is that people are not aware of environmental related problems and intend to live as they are doing right now. The lack of knowledge about the importance of planting and environmental awareness is a concerning issue. Schools are doing great raise awareness about the application of botanical but real the problem lies with the adults because they don't get any kind of information about it. The reason is due to the ignorance of the people living here. They do not know about climate change and soil corrosion consequences of having fewer trees. Not knowing the positive impact of planting trees can lead to deforestation, which harms our environment and wildlife.

2. Low-Quality Soil:

The quality of the soil in our region is not very good. Because of with rain, soil erosion is relatively common in this area. The nutrients needed by the device filter out and are left only more slowly soil quality. The reason is also due to the decrease in the number of trees. As all of us know that trees help prevent soil erosion.

Objectives to be achieved.

- **All sided development:** The CDP aims to improve all aspects of the community, including education, health, and welfare, by involving people from the community to contribute to its development.
- **Changing the thought process:** The CDP seeks to encourage positive thinking and create strong connections between community members, especially regarding children, to bring about a positive change in the way people think and act.
- **To aware people:** The main goal of the community Development works to make people aware of different things Issues that impede community growth and health.
- **Solve community Issues:** The main goal of the community Development works to make people aware of different effects issues that stymie community growth and health.
- **To motivate people:** The program aims to motivate community members to get involved in various initiatives that benefit the common good and improve humanity. Social organizers play a key role in energizing the community for positive change.

Various Steps taken to achieve the objectives.

I am very happy to have worked on this project. I worked from **June 23rd to July 10th, 2023**. I am very proud to have given myself something community. I divided my work into few different parts.

- **Spreading awareness about the project**
- **Adopting plants at my residence.**
- **Influence people to plant trees.**
- **Encourage people to understand the importance of planting trees.**
- **Fertilizing plants and observe plant, which I adopted.**

Various meetings were held by the NGO through online and offline platform in which I actively participated. Some instructions were given to all the volunteers, and we were given tasks to identify the issues in our neighborhood or our society. And then the second task was to make a poster and being the topic social awareness, we had to stand in crowded area and aware people with dummy oxygen bottle with mask on shoulders which was provided by the NGO; and do plantation with people and click some pictures and those were posted on Bhumi Foundation Trust's social media pages.

Simultaneously, I bought various types of plants like Mango, Neem, Banyan, Peepal and planted them from 25th June 2023. It was my first time planting a tree. I also planted Snake, Areca Palm, Spider plants in plant pots in my garden. It took me nearly 7 days (from 25th June 2023 to 1st July 2023). I used only organic fertilizers. For potassium and calcium supply I use some homemade supplements like tea leaf, bone powder which are very effective for trees. I use loam soil. This soil is sour or acidic, but when we mix it with organic matter, lime, and compost, it becomes really good for plants to grow. It provides many benefits to help plants thrive.

Materials used:

- **Loam Soil**

A well-balanced combination of sand, silt, and clay particles makes up loam soil, which is frequently regarded as the best kind of soil for gardening and agriculture. It provides a wide range of advantages that are very favorable to plant development and production.

Because of the special makeup of loam soil, it has great water-retention qualities, ensuring that plants get enough moisture without drowning. Additionally, the way it is constructed allows for effective drainage, reducing water stagnation and root rot. The right root formation and healthy plant growth are supported by this equilibrium between water retention and drainage.

- **Compost**

Compost, often referred to as "Black Gold" in gardening circles, binds together soil and nutrients that plants require for healthy growth. Compost not only increases the amount of micronutrients in the soil but also aids in the retention of nutrients. Compost also improves soil structure for better drainage, offers much-needed nitrogen, and aids with moisture retention. The following compost was given by nurseries: Coco Peat, Peat Moss, Perlite.

- **Mulches, Plant Residues**

Mulch is a substance that is spread on top of the soil surface surrounding plants to give a number of advantages. It aids in maintaining soil moisture, preventing weed development, controlling soil temperature, and enhancing soil structure. Straw, leaves, wood chips, and other organic debris, as well as man-made materials like plastic, can all be used to make mulch.

When a plant is harvested or trimmed, any components that are left over are referred to as plant residue. Crop stalks, leaves, branches, and other plant elements that are no longer actively growing might be included in this. Plant waste may be utilized in a variety of ways, such as mulch as a source of organic matter for composting, or even as a technique to replenish soil nutrients through natural decomposition processes.

- **Animal Manure**

Animal manure, often considered a natural treasure in agriculture, is a valuable organic resource that has been used for centuries to enrich soil and enhance crop growth. It is the result of the decomposition of animal waste, such as cow dung, chicken droppings, mixed with bedding materials and other organic matter.

- **Bone Meal, Rock Phosphate**

Bone meal, a natural fertilizer, is made from finely ground animal bones, typically from cattle, poultry, or fish. It's a valuable source of essential nutrients, primarily phosphorus and calcium, that contribute to plant growth and development. As a slow-release fertilizer, bone meal gives plants a consistent supply of nutrients throughout time, promoting healthy root systems, flowering, and fruiting.

One advantage of rock phosphate is its potential to improve soil structure and cation exchange capacity, facilitating nutrient retention and uptake.

- **Home-made Vermicompost**

Homemade vermicompost is a monument to the beauty of recycling and the wonders of nature's small helpers. This useful product is the final result of a simple yet remarkable process involving the collaboration of earthworms and organic waste. It is a veritable gold mine of micronutrients necessary for strong development as well as plant nutrients including nitrogen, phosphorus, and potassium. It is a superior soil conditioner and fertilizer due to its ability to retain water and contain a balanced amount of nutrients.

I took a container and filled it with bedding material, such as shredded newspaper or cardboard and added some food scraps and bedding material, and then added some earthworms. I took the container moist but not wet. I turned the bin every few weeks to aerate the compost.

The compost would be ready to use in about 1.5 months.

Fundamentals Notice:

- Always keep eyes on those little trees to protect them any kind of bugs, virus etc. During this rainy season I watered them 2-3 times a week. Must be noticed, water can't be gathered around the tree. It ruins the trees sensitive and underdeveloped roots.
- For doing this movement broadly, Bhumi Foundation Trust has required a lot of funds. They collect the funds to buy new plants, trees and their care and treatment. I donated some amount also and asked people to raise some funds for the same.

Below are some images from my volunteering time for this Community Development Project:

❖ Spreading awareness about the project

Humans have used forests for fuel for thousands of years, and 2.6 billion people today still use biomass mainly wood and charcoal for cooking. Bhumi Foundation Trust works to promote bioenergy from scrap wood, oil and fats, sugar and starch crops, residues and wastes, and even algae to reduce reliance on forests and decrease greenhouse gas emissions. NGO's vision is that by 2050, 100% of the world's energy will come from sustainable, renewable sources, including bioenergy.

I participated in 2 societal programs also regarding awareness which was conducted by the NGO.



❖ Adopting plants at my residence.

I already mentioned the whole process how I got those saplings and grew them at my home.



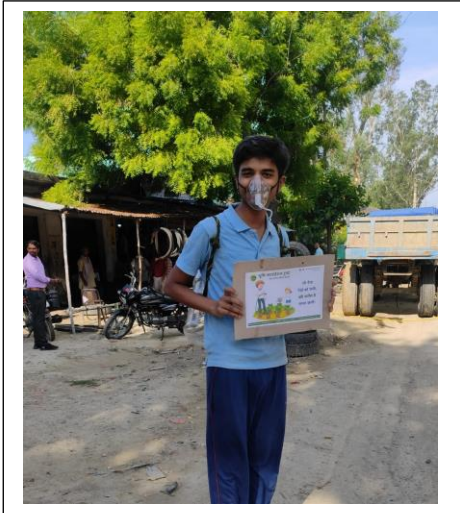
❖ Aware people to needs of planting trees.

It isn't hidden from anyone the current situation of environment, global warming and the pollution far and wide. So, it was a necessary step to let people know the actual value of planting trees at their homes or workplace.



❖ **Influence people to planting trees.**

I utilized the popularity of social media to my advantage. I shared the complete journey of growing plants at my home on different social media platforms like WhatsApp and Instagram etc. By doing so, I hoped to reach more people and inspire them to join in planting trees and promoting a greener environment.



Effectiveness of the Project

This community development project will be able to provide the community the following mentioned aspects and, in addition, I got to learn so much from this project.

1. **Clean and green environment:** As we know that trees absorb CO₂ from the atmosphere and make the environment pure. So, if even one person will plant one tree, that will help to keep the environment green and clean.
2. **Collection of funds for plants:** The NGO works on the funds collected by the people and those funds are used for various purposes. Financial support from the community ensures the sustainability of the project. When local residents invest in the NGO's campaigns and programs financially, they are more likely to remain engaged and committed to its success.
3. **Awareness among the society:** The whole Community development programmed was all about spreading awareness amongst the people about the afforestation and its benefits. When people understand the long-term positive impact of afforestation on factors like climate change mitigation, biodiversity conservation, soil erosion prevention, and air quality improvement, they are more likely to support and invest in such initiatives.

Societal Problems

These are the few societal problems which I faced during my project.

- 1. Lack of access to education and healthcare:** Many people often had lack of education about current situation of environment. They did not know about the Global Warming word yet. I had to spend more time explaining all of these.
- 2. Low wages:** During the plantation campaign, I saw that plantation workers often earn low wages, which can make it difficult for them to meet their basic needs. This can lead to poverty, hunger, and other problems.
- 3. Land Disputes:** Sometimes, there were some people who did not gave his land for planting tree due to their negative thoughts and unawareness about consequences of lack of trees and plants. They started an argument and dispute with us.
- 4. High prices:** High prices of plants, composts and manures and plantation tools are also one of the problems. I saw the prices of these things in the markets. For the first time I was also shocked after hearing the prices. But the NGO helped me to buy some items. I think that's why most of the people avoid such programs.

Apart from that there are some other problems also in society like:

- 1. Education & Health Care:** People with less education are more likely to have poor health and less access to healthcare. This is because education can help people understand the importance of good health, make healthier choices, and access quality healthcare.
- 2. Gender Inequality & Human Rights:** Gender inequality is a major human rights issue that affects women and girls around the world. It manifests itself in many ways, including violence against women, unequal access to education and employment, and discrimination in the workplace. Gender inequality is a violation of the human rights of women and girls, and it is also a major obstacle to development.

Conclusion

“Plant a tree today for a better tomorrow.” The importance of trees cannot be emphasized forest cover and tree planting, and their importance only increases in the current scenario, with Global warming and climate change pose significant and genuine threats to our planet and all living beings. Planting is transplanting young plants or sowing seeds to facilitate weeding and promote forest planting. Planting new trees can bear full fruit work! It's not only good for the environment and the earth, but it's also a way to make the world a better place and a cleaner place to live because trees help lower floors pollution. In our relationship with the earth, just like any other relationship, there is a give-and-take. It's true that we plant more trees to make up for what we cut down, ensuring a balance in nature and harmony in our environment. Planting trees is the only way to ensure that the screen coverage of our planet is not completely erased. Trees give us life. It's time we return to nature. It is the time now that we nourish the earth by planting trees, which will be a fantastic step forward in caring for our environment.



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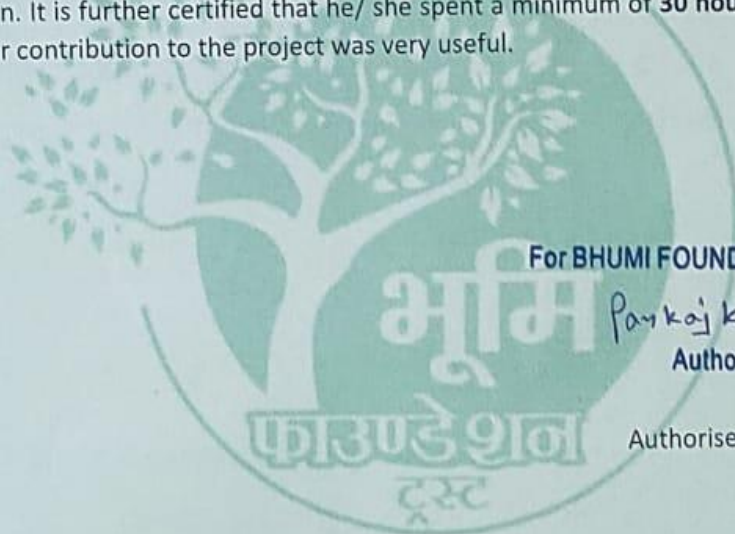
No.:- BFT/ 2023-24/ 0005

Date : 12-07-2023

ANNEXUR B

Certification by the Bhumi Foundation Trust regarding the Student Project

This to certify that the **Mr. Harish Baranwal, S/o. Sanjay Kumar Baranwal**, carried out the Project title "**Per Lagaye - Jeevan Bachaye**" in the supervision of **Mr. Pankaj Singh** in our organization. It is further certified that he/ she spent a minimum of **30 hours** on the project and his/ her contribution to the project was very useful.



For BHUMI FOUNDATION TRUST

Pankaj K. Singh

Authorised Signatory

Authorised Signatory

Below are some images from my volunteering time for this Community Development Project:

