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About the Institution

Introduction

Govt. ITI Sheragada, Ganjam, Odisha is a newly established Govt. ITI at Sheragada. Sheragada is a town situated in a very rural area as it is one of the 21 blocks present in Ganjam. In just few words, the ideology of our ITI is “Learn to hide your need & show your skills.”

Establishment

Govt. ITI Sheragada was established in June 2018. This ITI was setup with a capacity for 200 trainees, with land of over 5.785 acers by NTPC Ltd. Under their CSR activity. This included infrastructural facilities including classroom, workshop, and boundaries. The aim of the Odisha Govt. is to provide a qualified and skilled

workforce to the industry from the rural population of Sheragada, and to provide those who are interested in making their career in the technical field, an opportunity to receive proper training. This ITI is situated near the peacock sanctuary which enhances its beauty. In this rural area, our ITI is very helpful for village level trainees. Govt. ITI Sheragada comes under the Directorate of Technical Education & Training (DTET), Odisha.

History

There are 50 villages in Sheragada block. The population of these 50 villages is 72,875. Among them, only 39.8 % are literate and 60.2% are illiterate. Those who are illiterate, depends upon daily income for their family, for which they

prefer to go outside Odisha like Surat, Mumbai, Kerala, etc. as daily laborer. The Govt. has targeted the youth in this area for enhance the technical skills of the rural youth to improve their employability. In this regard, the National Thermal Power Corporation (NTPC) had built an advanced and model infrastructure with the help of Central Public Work Department (CPWD) at Padampur village, Sheragada, Ganjam. After completion of the infrastructure, NTPC decided to handover the building to Principal Govt. ITI Sheragada for functioning of training program in Electrician, Fitter & Welder as per MOU made with Govt. of Odisha. NTPC Ltd. has also provided all the furniture, equipment and machineries for function of sanctioned trades as per NCVT norms up to a maximum expenditure of Rs. 7.72 Crs.

MG Set

1. AC to DC and DC to AC motors
2. DC Series, compound & sump motor
3. Single Phase Grinder
4. IGBT AC motor
5. Bench Drilling Machine
6. Diesel Generator Set
7. Single Phase Transformer
8. Lathe Operating Machine
9. 3 Phase Drill Machine and Grinder
10. Power Saw
11. Single Phase welding Machine
12. Compressor
13. TIG & MIG Machine
14. Gas Welding

Apart from the above-mentioned machines, NTPC has also given other equipment which are very helpful for the trainees in today's world.

Specialty of the ITI

This ITI is structured in a way that is similar to a corporate office with workshops. In our ITI we have many special things such as:

- Digital Class rooms with Audio Visual facility.
- Model IT Lab.
- Informative Library Facility.
- All kinds of advance machinery in the workshops.
- Many more tools and equipment provided to the trainees.
- Morning assembly with newspaper reading, Surya Namaskar, and other exercises.
- Monthly self-defense programs for women trainees by a local police officer and other activities for women empowerment.
- Stipend schemes introduced by Govt. of Odisha to encourage different categories of trainees to not only enroll in the ITI, but to also do something with their capabilities. These schemes are Banishree for PWDs, Prerana for male trainees, Sudakhya for women trainees and BOC for labor cardholders.
- Different types of plants are planted by the trainees.

Future Plan

- Our future plan is to fulfil our goals as well as brighten the future of trainees. Some of our key focus areas are:
- As 60.2% of people are daily laborers, out of which 80% are youth, these can be skilled on the village level and Gram Panchayat level at our ITI.

- We will empower women trainees by introducing new trades such as SMO trade in the future.
- We will provide more Nano Unicorn and Bank Loans for the trainees.
- We will introduce new employment in companies such as TATA, Aditya Birla, Wipro, IMFA etc.
- We will build hostels for both women and men trainees.
- We will introduce new activity-based learning like Yoga, Seminars, etc.
- We will create a pitch for cricket and volleyball.
- We will provide career counselling in larger number of schools and colleges.
- We will visit the trainees' home for more retention.

- We will introduce more apprenticeship programs by registering many new local companies.
- We have a plan to introduce a vehicle created by our trainees, which will operate with the help of solar panels.
- We will publish success stories of our role models.
- We will organize an alumnus meet for the role models.

Capacity

We have a total capacity of 200 and three trades have been introduced till now. These trades are:

- Electrician
- Fitter
- Welder

The duration for electrician and fitter trade is 2 years while for welder trade is 1 year.

Sustainability Report

Introduction to SDGs: What are Sustainable Development Goals?

Sustainable Development Goals (SDGs) are a collection of 17 global goals designed to be a "blueprint to achieve a better and more sustainable future for all". The SDGs were set in 2015 by the United Nations General Assembly.



The 17 SDGs are integrated—that is, they recognize that action in one area will affect outcomes in others, and that development must balance social, economic and environmental sustainability.

SUSTAINABLE DEVELOPMENT GOALS



The Sustainable Development Goals are:

- No Poverty
- Zero Hunger
- Good Health and Well-being
- Quality Education
- Gender Equality
- Clean Water and Sanitation
- Affordable and Clean Energy
- Decent Work and Economic Growth
- Industry, Innovation, and Infrastructure
- Reducing Inequality
- Sustainable Cities and Communities
- Responsible Consumption and Production
- Climate Action
- Life Below Water
- Life on Land

- Peace, Justice, and Strong Institutions
- Partnerships for the Goals

Why do we need SDGs?

There was a need to produce a set of universal goals that would help combat the urgent environmental, political and economic challenges facing our world. The Millennium Development Goals, i.e. the SDGs, explicitly call on all businesses to apply their creativity and innovation to solve sustainable development challenges. The beauty of the goals is that everyone can contribute, and every contribution, small or big, will make an impact on our world.

Working primarily in developing and transitional countries, we see both the negative impact of the changing environment and the growing inequality, but also the positive impact of the goals and how they are helping create better

opportunities for the local communities. We have to use this momentum and keep pushing towards achieving the goals, so we can create a better world for all.

Universal goals result in greater mobilization of the global community, strengthen collaboration and networking of stakeholders across the sectors, countries and regions, and promote innovation and sharing of expertise and best practices. Examples of impact of such mobilization of resources may include achievements in the health sector, such as reduction of child mortality and universal access to healthcare.

How can we achieve SDGs?

We can achieve the 17 SDGs by:

- Raising awareness of the 2030 Agenda and the achievement of the SDGs for persons with disabilities.
- Promoting an active dialogue among stakeholders on the SDGs with a view to create a better world for persons with disabilities.
- Establishing an on-going live web resource on each SDG and disability.



Introduction to Learn-X

What is Learn-X?

Learn-X (Learn Excellency) is a project-based teaching methodology, in which students learn by actively engaging in real-world and

Personally meaningful projects. Learners demonstrate their knowledge and skills by creating a public product or presentation for a real audience.

Students develop deep content knowledge as well as critical thinking, collaboration,

creativity, and communication skills. Project Based Learning unleashes a contagious, creative energy among students and teachers.

Project Based Learning is a teaching method in which students gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem or challenge.

Why do we need such an intervention?

Traditional learning in classroom-based education is being challenged by the ever-increasing complexity in our lives and societies. Researches in the learning methods have opened new vistas in Project-Based Learning. Reasons why you as teachers, guides, educators, educationists, or students should go for project-based learning are:

- Collaboration
- Problem Solving
- Creativity
- In-Depth Understanding
- Self-Confidence
- Critical Thinking

- Perseverance.
- Project Management
- Curiosity
- Empowerment

How does Learn-X work?

It requires a lot of preparation and planning. It begins with an idea and an essential question. The steps for project based learning are:

- Start with the Essential Question
- Design a Plan for the Project
- Create a Schedule
- Monitor the Students and the Progress of the Project
- Assess the Outcome
- Evaluate the Experience

Sustainability Projects



Project 1: Maintenance of garden in ITI

Objectives of the Project

- Improve plantation skills
- Learn different techniques of seeding
- Enhance the beauty of the ITI campus
- Plant healthier plants
- Enhance the cleanness of the garden and surrounding



Introduction

Maintenance of ITI garden is a sustainability project. Once your garden is up and growing, a certain level of care is required for it to reach its full potential. Gardening is a much-loved activity but unfortunately, due to our busy lifestyles, we don't all have the time to beautify our outdoor spaces. Keeping your garden healthy is not only a way to beautify your yard; it can actually add significant value to your home. Whether you're a green-thumbed newbie or have been gardening for years, it's important to know how to maintain your plants in the most efficient and cost-effective ways.



Team Members

Team from Welder Trade Team from Fitter Trade

What did you do in the project?

The team took the following initiative:

Collected some waste plastic cups.

Collected some new plants from trainers and some by their own.

Cleaned the area as per instructions.

Took care of some ground electrical wires.

Separated the team in different groups as per the work.

Planted some flower plants along with medicinal plants also.

Design the garden for auto flow of water to all the plants.

How does it relate to UN SDGs?

Goal 3: Ensure healthy lives and promote well-being for all at all ages.

Goal 15: Sustainably manage forests, combat desertification, halt and reverse land degradation, halt biodiversity loss.



Conclusion:

The trainees and all the staff benefited from the garden by getting flowers, medicinal plants and the campus also became beautiful.

Project 2: Rainwater Harvesting

Objectives of the Project

- To save the water that falls down on earth in the form of rain.
- To eradicate "water shortage" during the summer season.
- To avoid the huge loss caused due to erosion which is caused by runoffs.
- To reduce the adverse effect of floods through proper storage of rainwater during the "rainy season".
- To increase the level of groundwater.

Introduction

When raindrops are collected and stored for future use, rather than allowing them to run off, it is called rainwater harvesting. Rainwater can be collected from rivers or roofs and redirected to a deep pit, aquifer, a reservoir with percolation, or collected from dew or fog with nets or other tools. Its uses include water for gardens, livestock, irrigation, domestic use with proper treatment, indoor heating for



houses, etc. The best and cheapest alternative to the traditional water supply systems is rainwater harvesting. However, to be able to harvest rainwater, you'll need to install a rainwater harvesting system.

Team Members

Team from Electrician Trade

What did you do in the project?

The team took the following initiative:

- Collected some card boards and plastic pots from campus.
- Collected some cotton from trainers.
- Collected some plastic flowers from campus along with one plastic pipe.
- Used damaged plastic bottle and collected some toy cars from home.
- Searched for the model design along with required materials for water harvesting from YouTube and other media.



- Took guidance from principal sir and expert trainers.
- Coloured in the design.

How does it relate to UN SDGs?



Goal 3: Ensure healthy lives and promote well-being for all at all ages.

Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

Goal 6: Ensure availability and sustainable management of water and sanitation for all.

Goal 8: Promote inclusive and sustainable economic growth, employment and decent work for all.



Conclusion

Through this project we learnt that we can reduce flooding and erosion through rainwater harvesting. Harvesting rainwater can therefore help the environment in a number of ways. We can also reduce the ITI's water bill, as well as the electricity bill. We can also use the harvested water for watering the plants in garden.