



**DEPARTMENT OF ELECTRONICS
REPORT**

1. Name & Title of the Activity:

A One-Day State Level Workshop on SOLAR POWER INSTALLATION,
OPERATION & MAINTENANCE.

Date: 15.02.2024

Venue: Seminar Hall

Beneficiaries:

26 Students of our college & 143 students from Various Colleges.

| Brief Description |
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| The workshop provided a comprehensive learning experience focused on solar energy production and its practical applications, including the charging of batteries. Participants were introduced to smart energy concepts and current industry trends such as green energy, smart buildings, smart grids, and energy harvesting technologies. |
| Details of the Workshop |
| <p>First Session: Participants were introduced to renewable energy sources, particularly solar power techniques for generating electrical energy. This session included hands-on exposure to solar energy production and its application in real-life scenarios.</p> <p>Second Session: The discussion progressed to green energy, On-grid and Off-grid systems, and energy harvesting technologies. The session aimed to equip participants with the knowledge needed to efficiently use solar power, focusing on installation, operation, and maintenance. These components were highlighted as crucial outcomes of the project.</p> |
| Outcome |
| The workshop successfully achieved its objective of providing practical exposure to solar energy production and understanding the real-life application of charging a battery. Students also gained insights into smart energy concepts and other industry trends. The practical sessions on installing, operating, and maintaining solar power systems offered participants valuable hands-on experience, enhancing their understanding of renewable energy technology and its application. |



**DEPARTMENT OF ELECTRONICS
REPORT**

1. Name & Title of the Activity:

A Awareness Programme on “Soil Sample Collection and Testing for farmers” in
Puliangulam Village.

Date: 25.02.2024

Venue: Anganvadi maiyam, Puliangulam Village

Beneficiaries: 40 villagers.

| Brief Description |
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| The program educated farmers received instruction on how to gather and analyse soil samples. Explain how to get a representative soil sample from a soil profile for the surrounding area and how to carry out a soil survey. The procedures for collecting soil samples, analysing them in a lab, interpreting the findings, and recommending fertilizer or other management measures are also explained to the farmers. |
| Details of the Programme |
| The capacity of soils to sustain crop development is taught to farmers. Growers can reduce risk and increase profitability by selecting crop inputs with greater knowledge of the meanings associated with each soil test value. Farmers can address identified problems with their soil by using specialized fertilizers or soil conditioners, which are recommended by the results of soil testing, which also tells them about soil imbalances. These tests can enable them to take corrective and preventive action even prior to planting the crop, resulting in a final yield that is not impacted. |
| Outcome |
| The program has effectively accomplished its goal of providing information on soil testing, a tool for managing soil fertility and determining the ideal amounts of fertilizer and lime for crops. It establishes the mean nutritional condition of a field and offers a gauge of the variability of nutrients within a field. These are the same goals, but with minor adjustments, for precision agriculture soil sampling. The purpose of soil testing is to precisely assess the amount and condition of nutrients present in the soil and to make any surplus or deficit evident. |



G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS)
KOVILPATTI – 628 502.

Photo 1



Photo 2



Caption: Event Photo

Photo 3



Photo 4



Caption: Event Photo


HOD


DIRECTOR (SFC)


PRINCIPAL



**DEPARTMENT OF ELECTRONICS
REPORT**

1. Name & Title of the Activity:

Training program on "Soil Sample Collection and Testing for farmers in Puliangulam Village.

Date: 26.02.2024

Venue: Farmer's field, Puliangulam Village

Beneficiaries: 50 villagers.

| Brief Description |
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| The program taught about soil sample collection and testing for farmers by removing surface litter from the sampling location. Then, cut a uniform 1.5-2.5 cm thick slice from the side. To obtain a representative sample, collect at least 10-15 slices. The region for getting a representative sample will be defined based on eye assessment and previous experience with soil uniformity. |
| Details of the Programme |
| Through the use of a plastic tray, the locals gather the sub samples. Instructors instruct farmers in sampling frequency and timing: Three years should pass between soil tests. In order to have time to treat the soil, take a soil sample well before seeding or planting. The time for sampling needs to be consistent every year. Randomly chosen sites within the field are used to gather sub-samples. A representative sample is created by carefully combining the sub-samples, and examination of this sample yields average values for the whole region. |
| Outcome |
| For the farmer, soil testing and sampling provide a wealth of information. A well-conducted soil-sampling event can yield valuable information for tracking changes in soil fertility, creating fertilizer recommendations, and enhancing nutrient efficiency on the farm. It becomes cost-beneficial for peasants and assists farmers in understanding their soil types and nutrient deficiencies. It also helps to minimize the quantity and variety of fertilizers used. |



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Photo 1



Photo 2



Caption: Event Photos

Photo 3



Photo 4



Caption: Event Photos


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