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# **STUDY OF SOLAR POWER**

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**A DISSERTATION SUBMITTED TO ST. XAVIER'S COLLEGE**

**MAHUADANR**

**AFFILIATED TO NILAMBER PITAMBER UNIVERSITY**

**BACHELOR OF SCIENCE**

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**ST. XAVIER'S COLLEGE MAHUADANR**

**Nationally accredited with Grade 'B' (NAAC)**


**MAHUADANR, LATEHAR, JHARKHAND- 822119**

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## CERTIFICATE

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This is to certify that the project work entitled "**SOLAR POWER SYSTEM**" submitted to **St. Xavier's college Mahuadanr** in partial fulfillment of requirement for the award of bachelor of science in Physics to be awarded by the Affiliated to Nilamber Pitamber University is a bonafide record of the work carried out by **Mr. NEERAJ KUJUR** (Reg. No.-NPU2020013232) during the academic year 2020-2023.

  
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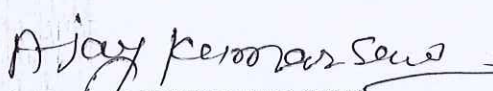
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I thank Fr. Dr. Samir Toppo S.J, Administrator of St. Xavier's College Mahuadanr, who allowed to me use the computer all the time during the college hour.

I express my heartfelt thanks to all my fellow students who encouraged me to finish this project work successfully.

*Neeraj Kujur*

NEERAJ KUJUR

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## **Conclusion:**

Our project was very productive. Our hypothesis was: we think that the solar energy can be used to power electronic appliances while not polluting the environment. Our goal is to learn how solar energy works, and in which situations it can be used.

Solar energy reduces greenhouse gas emission in the atmosphere because it harnesses the power of sun energy with little to no gasses being released. The amount of carbon dioxide released to atmosphere is way less from solar energy compared to coal plants when seeking to produce the same amount of KWh per year. The benefits of solar power to the environment include the provision of an inexhaustible supply of energy from the sun. Solar power captures the sun's energy with no harm to the environment. Therefore solar power is easier on health impacts, land use, water, and carbon emission than energy generation means, such as natural gas in fossil fuel and coal energy plants.

The result of our research proved that solar power caused no pollution whatsoever. We are also mentioned solar energy can be used to power houses and their electronic appliances, such as flashlights, electric motors and even such things as refrigerators. It can also be used to heat water and cool buildings!

There are many possible ways of demonstrating how solar energy can be used. One way would be to demonstrate physically, such as building a model that runs on solar energy such as a car or something that uses an electric motor. Another way to demonstrate would be to compare solar energy to other alternative energy sources to see which one produces the most power or less pollution.

This has been a wonderful learning experience for us. We have learned much more about how solar energy can be used to make electricity and power everyday applications. We also learned about the structure of the PV cell, which itself is the absorber of solar energy. This was a fantastic topic to research, and we have accomplished many things.

Ajay Kapoor Saw