

Magnetic Properties of Manganites Thin Film

SUBMITTED TO ST. XAVIER'S COLLEGE, MAHUADANR

AFFILIATED TO NILAMBER PITAMBER UNIVERSITY

BACHELOR OF SCIENCE

BY

Eleen Ekka

SEM - 6

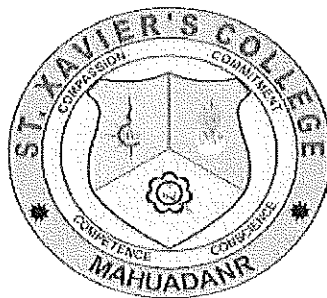
(Reg. No. – NPU2021000092)

(Roll No. – 220251100040)

Under the supervision of

Asst. Prof. Mr. Ajay Kumar Saw

DEPARTMENT OF PHYSICS



ST XAVIER'S COLLEGE MAHUADANR

Nationally accredited with Grade 'B' (NAAC)

MAHUADANR, LATEHAR, JHARKHAND-822119

ACKNOWLEDGEMENT

First of all I praise and thanks the **ALMIGHTY GOD** from the depth of my heart for showering his grace, love and blessing to make this Endeavour possible.

I am profoundly thankful to my beloved principle, **Dr. Fr. MK Joseph SJ** for allowing me to study the under-Graduate course in this historical institution.

I thank Prof. **Md. Zafar Aqubal**, (MSC NET), Head of the department of physics, St. Xavier's College, Mahuadanr -822119, for allowing me to take this project and permission to use the lab and the instruments available in the department.

Asst. Prof. Ajay Kumar Saw was also my guide for this project work. I am extremely grateful for his inspiring guidance, useful discussions and encouragement throughout the project whose meticulous and patient guidance, ha enriched me personally and intellectually.

I thank Fr. Dr. Samir Toppo SJ, Administrator of St. Xavier's college Mahuadanr, who allowed me to 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.

Eleen Ekka
ELEEN EKKA

CERTIFICATE

This is to certify that the project work entitled “**Magnetic properties of Manganites thin film**” submitted to **St. Xavier’s college Mahuadanr** in partial fulfilment to requirement for the award to 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 **Ms. ELEEN EKKA** (Reg. No.-NPU2021000092) during the academic year 2021-2024.



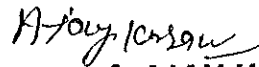
Md. ZAFAR AQUBAL

Head of the Department

Department of Physics,

St. Xavier’s college Mahuadanr

822119



Asst. Prof. AJAY KUMAR SAW

Project Guide

St. Xavier’s College Mahuadanr

822119