



**Project Report as part of Vocational
Training: NTPC SIPAT On the topic: Transformers oil
analysis and its Significance
Submitted by Tiwari Rohan Mithilesh**

21021161

GGV/21/01561

Guru Ghasidas University

TRANSFORMERS OIL ANALYSIS

INDEX:

SNO		NO.
1.	ABOUT NTPC AND NTPC SIPAT	4-7
2.	INTRODUCTION OF TRANSFORMER	8-12
3.	UNDERSTANDING OF TRANSFORMER	13-18
4.	5 Ws OF TRANSFORMER	18-22
5.	OIL SAMPLING AND TESTING	23-30
6.	TRANSFORMER DESIGN AND MANUFACTURING	31-34
7.	TRANSFORMER MAINTENANCE	35-42
8.	CONDITION MONITORING AND DIAGNOSTIC TECHNIQUES	43-48
9.	STRATEGIES IN TRANSFORMER	49-54
10.	CASE STUDIES	55-60
11.	ENVIRONMENTAL IMPACT AND CONCLUSION	61-64



REGIONAL LEARNING INSTITUTE, NTPC, SIPAT
क्षेत्रीय ज्ञानार्जन संस्थान, एनटीपीसी, सीपत
CERTIFICATE OF VOCATIONAL TRAINING - 2024
व्यावसायिक प्रशिक्षण प्रमाण पत्र - 2024

Ref No. RLI/SIPAT/VT/CERT/2024/VT-CHEM-233

THE CERTIFICATE IS AWARDED TO

Tiwari Rohan Mithilesh

Roll No - VT-CHEM-233

Branch - CHEM



Name of College/ Institute – Guru Ghasidas University, Koni, Bilaspur

For satisfactorily completing **Vocational Training** at NTPC, Sipat, Bilaspur for a period of four weeks from 10/06/2024 to 13/07/2024. The participant has successfully completed the course and has also completed the project assigned to him/her as part of this course. We wish him/her a bright and successful future. This Certificate is digitally signed.

Date: 18/07/2024

Ramesh

Nakka Ramesh
Sr. Manager (RLI)

Anshul

Anshul Rajan Singh
Sr. Manager (RLI)

AK

AK Tripathi
GM & Head (RLI-Simulator)