

**A PROJECT REPORT
ON
“Determining coking properties using differential fractions of
coal samples”**

**Submitted in Fulfillment of Vocational Trainee-May 2024
Training Programme at RDCIS, Ranchi
By**

**Anubhav Jangde
21021110**



2024

Under the supervision of

**B. Chakraborty
S. K. Kushwaha**

**P. K. Pankaj
Dr. B. K. Sahoo
Dr. Bablu Ghosh
A.Kumar**

Table of Contents

Name	Page no.
Introduction	5-6
Coal (theoretical information)	7-8
Coal utilization	9
Coal carbonization and coke	10-13
Properties of Coke	14-16
Tests for coke & coal	17-27
Project report on fluidity & plasticity of coal samples using Gieseler Plastometer	28-40
Conclusion	41

स्टील अथॉरिटी ऑफ इण्डिया लि.
(भारत सरकार का संस्थान)

रिसर्च एण्ड डेवलपमेंट सेंटर
फॉर आइरन एण्ड स्टील

आई. एस. ओ. 9001 प्रमाणित
पोस्ट : डोरण्डा, राँची - 834 002



STEEL AUTHORITY OF INDIA LTD.
(A Govt. of India Enterprise)

RESEARCH AND DEVELOPMENT CENTRE
FOR IRON AND STEEL

"I.S.O. 9001 Certified"
P.O. DORANDA, RANCHI - 834 002

No.RD/PER (HRD)/VT2024-25/RDCIS034

June 20, 2024

CERTIFICATE

TO WHOMEVER IT MAY CONCERN

This is to certify that

Anubhav Jangde

a student of

Guru Ghasidas Vishwavidyalaya, Bilaspur

has undergone Summer Training in our Organization

and has completed the Project on

**"DETERMINING COKING PROPERTIES USING DIFFERENTIAL FRACTIONS OF COAL
SAMPLES"**

at

Research & Development Centre for Iron & Steel,

Steel Authority of India Limited, Ranchi

During the period from

May 20, 2024 to June 20, 2024

We found him very sincere, innovative and hard working during the training.

We wish him all success in his future endeavors.

Pragya Kumari
20/6/24
(Pragya Kumari)
Manager (HR)

"There's a little bit of SAIL in everybody's life"

पंजीकृत कार्यालय : इस्पत भवन, लोदी रोड, नई दिल्ली - 110 003

Regd. Office : Ispat Bhawan, Lodi Road, New Delhi - 110 003

आप हमसे हिन्दी में भी पत्र व्यवहार कर सकते हैं।