

July 6, 2023

TO WHOM IT MAY CONCERN

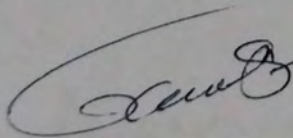
SUB: SUCCESSFUL COMPLETION OF SUMMER INTERNSHIP

This is to certify that **Mr. Aryan Saha**, S/o Sri Tapan Saha, a 4th year student of B. Tech. in the discipline of Chemical Engineering of **Heritage Institute of Technology, Kolkata**, has undergone his summer internship in Process Department of our organisation from **7th June' 2023 to 6th July' 2023**.

Mr. Saha exhibited good conceptual knowledge in the field of application and combines a pleasant personality.

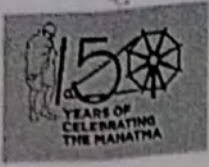
We wish him success in life & in all future endeavours.

For **IVL Dhunseri Petrochem Industries Private Limited**,



TARUN KANTI GIRI
DGM (HR & Admin)





इंडियन ऑयल कॉर्पोरेशन लिमिटेड

हल्दिया रिफाइनरी, डाकघर : हल्दिया ऑयल रिफाइनरी -721606

जिला : पूर्य मेदिनीपुर (प० ब०)

Indian Oil Corporation Limited

Haldia Refinery, P.O. : Haldia Oil Refinery-721606

District : Purba Medinipur, West Bengal

Website : www.iocl.com, E-mail : haldiarefinery@indianoil.in

Fax : 91-3224-252141, Phone : 91-3224-223270



रिफाइनरीज प्रभाग
Refineries Division

Ref No. HRLC/23-24/S.IT/137s

Date: 10th July 2023

Subject: Completion of Summer Internship at Haldia Refinery (IOCL)
(To Whomsoever It May Concern)

This is to certify that Mr./Miss. Soumen Bhaskar studying in 6th Semester, 3rd Year in Chemical Engineering at Heritage Institute Of Technology has undergone Summer Internship at Indian Oil Corporation Limited - Haldia Refinery from 12th June 2023 to 10th July 2023.

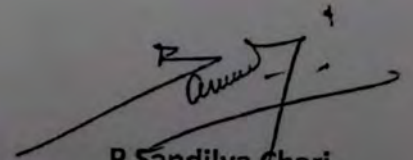
The project assigned to him/her was "Heat Balance of Heat Exchanger". His/Her assessment during the internship period for the above project is as follows:

- **Attendance: Outstanding**
- **Project Review / Performance: Excellent**
- **Learning Ability / Knowledge: Excellent**

Satisfactory	Good	Very Good	Excellent	Outstanding
Less Than 60%	60% to 70%	70% to 80%	80% to 90%	Above 90 %

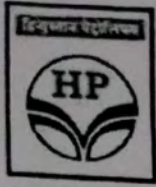
We wish him/her all the success in his/her life.

Soumen Bhaskar
Chemical Engineering
Heritage Institute Of Technology


P Sandilya Chari,
Asst. Manager (L&D),
IOCL – Haldia Refinery.

पी सैंडिल्या चारी, सहायक प्रबंधक (एल एन्ड डी)
P Sandilya Chari, Assistant Manager (L & D)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड, हल्दिया रिफाइनरी
INDIAN OIL CORPORATION LIMITED, Haldia Refinery

पंजीकृत कार्यालय : जी-9, अली यावर जंग मार्ग, बान्द्रा (पूर्व) मुंबई, महाराष्ट्र - 400 051
Regd. Office : G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai, Maharashtra-400 051
CIN - L 23201 MH 1959 GEN 011388



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार उपक्रम) पंजीकृत कार्यालय : 17, जमशेदजी टाटा रोड, मुंबई - 400 020.

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020.

मुंबई रिफाइनरी, पो. ऑ. बॉक्स नं. 18820, बी. डी. पाटील मार्ग, माहुल, मुंबई - 400 074.
MUMBAI REFINERY, P.O. BOX NO. 18820, B. D. PATIL MARG, MAHUL, MUMBAI - 400 074
टेलीफोन : TELEPHONE : 2507 6000, फॅक्स : FAX : 2554 2008, तार - हिनरिफ, TELEGRAM - HINREF
CIN : L23201MH1952GOI008858

Date: 14/07/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss Kumkum Kedia, Chemical Engineering Student from Heritage Institute of Technology, Kolkata has successfully completed her project for summer internship in Technical Department of Mumbai Refinery - Hindustan Petroleum Corporation Limited, Mumbai during the period from 01/06/2023 to 14/07/2023.

During this period, she exhibited exceptional skills and knowledge, and her contributions were valuable and instrumental in the successful completion of the project titled : Overview of NHGU, Process Calculations & Simulation.

We found her extremely committed, detail-oriented, and well-disciplined. Her association with us was fruitful and we wish her all the very best in her future endeavours.

Vimmy Meena
Vimmy Meena
Assistant Manager -HR
Capability Building

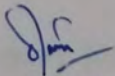
CERTIFICATE

This is to certify that, this project report on “**Overview of HGU-II, OHCU UNIT and Project on calculation of furnace efficiency when internal fuel oil and fuel gas is used, effect on consumption of fuel gas when there is no internal fuel oil consumption at same furnace efficiency and furnace efficiency when natural gas is used as single fuel.**” which is a section of production Hydrogen and mainly Diesel, was prepared by **Apeksha Ghosh** (Roll No.- 2055077), student of Bachelor of Technology in Chemical Engineering at **Heritage Institute of Technology, Kolkata**. She has undergone In-Plant Summer Internship from 29.05.23 to 26.06.23 at Indian Oil Corporation Limited, Haldia Refinery and have completed the internship under my supervision.

During the above period, her performance was satisfactory.

I wish a bright future in her life.

संजय कुमार देहुरी, वरिष्ठ उत्पादन प्रबंधक
Sanjay Kumar Dehury, Senior Production Manager
इंडियन ऑयल कॉर्पोरेशन लिमिटेड, हल्दिया रिफाइनरी
INDIAN OIL CORPORATION LIMITED, Haldia Refinery



Mr. Sanjay Kumar Dehury

SPNM (OHCU)

IOCL, Haldia

July 6, 2023

TO WHOM IT MAY CONCERN

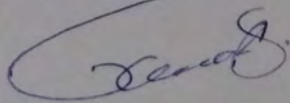
SUB: SUCCESSFUL COMPLETION OF SUMMER INTERNSHIP

This is to certify that **Mr. Aniruddha Samanta**, S/o Sri Tarun Samanta, a 4th year student of B. Tech. in the discipline of Chemical Engineering of **Heritage Institute of Technology, Kolkata**, has undergone his summer internship in Process Department of our organisation from **7th June' 2023 to 6th July' 2023**.

Mr. Samanta exhibited good conceptual knowledge in the field of application and combines a pleasant personality.

We wish him success in life & in all future endeavours.

For IVL Dhunseri Petrochem Industries Private Limited,



TARUN KANTI GIRI
DGM (HR & Admin)

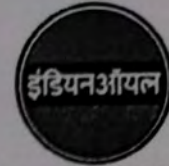




इंडियन ऑयल कॉर्पोरेशन लिमिटेड
हल्दिया रिफाइनरी, डाकघर : हल्दिया ऑयल रिफाइनरी - 721606
जिला : पूर्व मेदिनीपुर (प० बं०)

Indian Oil Corporation Limited

Haldia Refinery, P.O.: Haldia Oil Refinery-721606
District : Purba Medinipur, West Bengal
Website : www.iocl.com, E-mail : haldia refinery@indianoil.in
Fax : 91-3224-252141, Phone : 91-3224-223270



IndianOil

रिफाइनरीज प्रभाग
Refineries Division

Ref No. HRLC/23-24/S.IT/134s

Date: 10th July 2023

Subject: Completion of Summer Internship at Haldia Refinery (IOCL)
(To Whomsoever It May Concern)

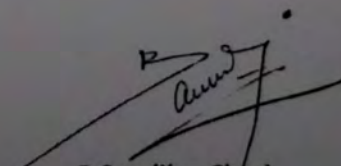
This is to certify that **Mr./Miss. Arpit Mondal** studying in 6th Semester, 3rd Year in Chemical Engineering at Heritage Institute Of Technology has undergone Summer Internship at Indian Oil Corporation Limited - Haldia Refinery from 12th June 2023 to 10th July 2023.

The project assigned to him/her was "Calculation of Required Pump Output in WSA Plant". His/Her assessment during the internship period for the above project is as follows:

- Attendance: Excellent
- Project Review / Performance: Very Good
- Learning Ability / Knowledge: Excellent

Satisfactory	Good	Very Good	Excellent	Outstanding
Less Than 60%	60% to 70%	70% to 80%	80% to 90%	Above 90 %

We wish him/her all the success in his/her life.


P Sandilya Chari,
Asst. Manager (L&D),
IOCL – Haldia Refinery.

पी सैंडिल्या चारी, सहायक प्रबंधक (एल एन्ड डी)
P Sandilya Chari, Assistant Manager (L & D)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड, हल्दिया रिफाइनरी
INDIAN OIL CORPORATION LIMITED, Haldia Refinery

Arpit Mondal
Chemical Engineering
Heritage Institute Of Technology

पंजीकृत कार्यालय : जी-9, अली यावर जंग मार्ग, बान्द्रा (पूर्व) मुंबई, महाराष्ट्र - 400 051
Regd. Office : G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai, Maharashtra-400 051
CIN - L 23201 MH 1959 GOI 011388



ISO 9001/ ISO 14001/ OHSAS 18001

इंडियन ऑयल कॉर्पोरेशन लिमिटेड

हल्दिया रिफाइनरी, डाकघर : हल्दिया ऑयल रिफाइनरी - 721606

जिला : पूर्व मेदिनीपुर (प० ब०)

Indian Oil Corporation Limited

Haldia Refinery, P.O.: Haldia Oil Refinery-721606

District : Purba Medinipur, West Bengal

Website : www.iocl.com, E-mail : haldiarefinery@indianoil.in

Fax : 91-3224-252141, Phone : 91-3224-223270



IndianOil

परीक्ष प्रभाग
Examinations Division

Date: 19th June 2023

Ref No. HRLC/23-24/S.IT/8s

Subject: Completion of Summer Internship at Haldia Refinery (IOCL) (To Whomsoever It May Concern)

This is to certify that **Mr./Miss. Bapi Singha** studying in 6th Semester, 3rd Year in Chemical Engineering at Heritage Institute Of Technology has undergone Summer Internship at Indian Oil Corporation Limited - Haldia Refinery from 22nd May 2023 to 19th June 2023.

The project assigned to him/her was "Overview of LOB & Calculation of Number of Tubes of Heat Exchanger & Furnace Efficiency". His/Her assessment during the internship period for the above project is as follows:

- Attendance: Outstanding
- Project Review / Performance: Outstanding
- Learning Ability / Knowledge: Outstanding

Satisfactory	Good	Very Good	Excellent	Outstanding
Less Than 60%	60% to 70%	70% to 80%	80% to 90%	Above 90 %

We wish him/her all the success in his/her life.

P Sandilya Chari
19/6/23
P Sandilya Chari,
Asst. Manager (L&D),
IOCL – Haldia Refinery.

Bapi Singha
Chemical Engineering
Heritage Institute Of Technology

पी संदिल्या चारी, सहायक प्रबंधक (एल & डी)
P Sandilya Chari, Asst. Manager (L & D)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड, हल्दिया रिफाइनरी
INDIAN OIL CORPORATION LIMITED, Haldia Refinery

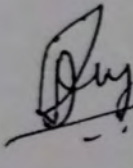
ACKNOWLEDGEMENT

After the completion of our In-plant training, we intend to thank all the staff members of 'IVL Dhunseri' who directly or indirectly were responsible for making our stay during the training period fruitful. It was wonderful opportunity for us as **Plastic technology** students to experience industrial atmosphere and this experience will surely help us in some way to evolve as good engineers in future.

We are indebted to **Mr. T.K Giri, DGM (HR & Admin)** for making possible for us to come to IVL Dhunseri Petrochem Industries Pvt Ltd. We send our appreciation to **Ms. Anandita Pal (HR)** for her cordial guidance.

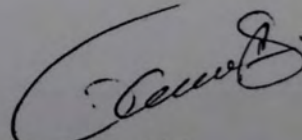
We are especially thankful to **Mr.P.P.Dey(Process Head),Mr. Swarup Paul(AGM, Process)** for their valuable guidance and co-operation.

With grateful heart, we would like to thanks the persons who were somehow helped us for our successful training. But nevertheless we thank to entire IDPIPL family for the pains they undertook us, their co-operation and valuable guidance and support.


(PARTHA P. DEY)

Mr. P.P.Dey
(Process Head)





Mr.T.K. Giri
DGM(HR&Admin)



(Formerly known as Bengal Cracker Complex Limited)

Plant :
Post Box No.-12, Durgachak,
Haldia, Dist.-Purba Medinipore
West Bengal, Pin-721602, India
TEL. : + 91(03224) 274007/384/400/876
WEBSITE : www.haldiapetrochemicals.com
CIN : U24100WB2015PLC205383

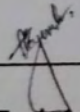
Date: 14 July 23

To Whom It May Concern

This is to certify that Mr. Hritwik Ghosh, student of Heritage Institute of Technology, Department of Chemical Engineering, has undergone Industrial Training from 19th June 2023 to 14th July 2023 at our Haldia Plant.

He is being awarded this certificate on satisfactory completion of his training at Haldia Plant.

We wish him all success for his future endeavors.



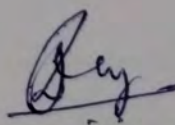
Tusher Majumder
General Manager – Plant Human Resource

ACKNOWLEDGMENT

After the completion of our In-plant training, we would like to thank all the staff members of 'IVL Dhunseri' who directly or indirectly were responsible for making our stay during the training period fruitful. It was a wonderful opportunity for us as Chemical Engineering students to experience an industrial atmosphere which will surely help us in evolving as good engineers in the future.

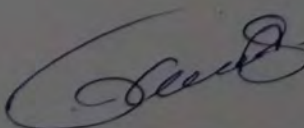
We are indebted to Ms. Anindita Pal (HR) for making it possible for us to attend the training in IVL Dhunseri Petrochem Industries Pvt. Ltd. We send our appreciation to Mr. S.K. Pattanaik (Sr. Manager, Admin), Mr. Tarun Kanti Giri (HR Head) and Mr. Sanjib Halder (HR) for their guidance. We are especially thankful to Mr. Partha Pratim Dey (Process Head), Mr. Hem Chandra Pandey (AGM, Process), Mr. Santanu Santra (Senior Engineer) and Mr. Sourav Das (Asst. Manager, Instrumentation) for their valuable guidance and cooperation.

With a grateful heart, we would like to thank each and everyone who have helped us throughout our training. Altogether, we thank the entire IDPIPL family for their co-operation, valuable guidance and support.

X 
(PARTHA P. DEY)

Mr. P. P. Dey
Process Head



X 

Mr. T. K. Giri
HR Head

DPL/VOCATIONAL TRG/2023/17

Date: 04th July 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Ammaar Ahmad Khan** student at **Heritage Institute of Technology, Kolkata** has undergone summer internship training at Deepak phenolics limited, Dahej unit for a period from 05th June 2023 to 04th July 2023.

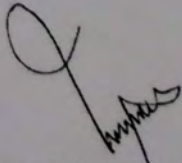
He had submitted the **Project Reports** on topic-

1. Optimization of Heat exchanger (Phenol)
2. Root Cause Analysis (RCA) of Distillation Column (Phenol)

During his training we found him to be honest, sincere & hardworking.

We wish him success in all future endeavors.

FOR DEEPAK PHENOLICS LIMITED.



Manish Rathod
HR Head, Dahej Site
Deepak Phenolics Limited

DEEPAK PHENOLICS LIMITED

CIN: U24100GJ2011PLC064669

Dahej Division : 12/B/1, GIDC Dahej, Village : Ambheta, Taluka : Vagra, Dist : Bharuch, Gujarat, 392 130, India.

Tel. : +91 2641 280700 / 291495

Registered & Corporate Office :

1st Floor, Aaditya - II, Chhani Road, Vadodara - 390024. Gujarat, India.

Tel: +91 265 276 5500 | Fax: +91 265 276 5557

www.godeepak.com



July 05, 2023

TO WHOM IT MAY CONCERN

This is to certify that Ms. Diya Mukherjee, pursuing her third year of B.Tech course in Chemical Engineering from Heritage Institute of Technology, Kolkata has completed her Vocational Training starting from June 07, 2023 to July 05, 2023 as trainee in our organization.

During this period, she was given training on fuel balance in a Steel Plant, details of a Compressor and sizing of an Industrial Compressor, stress analysis of pipe and Heating, Ventilation and Air Conditioning (HVAC).

She took keen interest and completed the assignment successfully as per schedule.

She is hard working and sincere towards her job. Her performance and conduct during the period of training was found to be satisfactory.

M. N. DASTUR & COMPANY (P) LTD

Dhritiman Ray
Senior Manager - HR

DhR:trna



JADAVPUR UNIVERSITY
KOLKATA-700032, INDIA

Tele-fax : 033 2414 6378
Phone : 033 2457 2246

FACULTY OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CHEMICAL ENGINEERING

From: Dr. Ranjana Chowdhury

19.07.2023

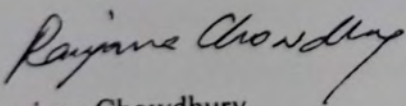
Professor and Former Head

To whom it may concern

This is to certify that Ms. **Chitrita Banerjee**, a student of B. Tech 4th year, Chemical Engineering Department, Heritage Institute of Technology, Kolkata has successfully completed the research project titled "*Studies on Kinetic Analysis of Pyrolytic Conversion of Vegetable Market Wastes of Kolkata*" during the Summer Internship in June, 2023 under my supervision.

It was a pleasure to interact with Ms Chitrita during the Internship.

I wish her all success.


Ranjana Chowdhury


Dr. Ranjana Chowdhury
Professor
Chemical Engineering Department
JADAVPUR UNIVERSITY
Kolkata-700 032

CERTIFICATE

This is to certify that JYOTIDIP HAJRA, student of HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA 3rd YEAR, B. TECH has completed his summer vocational training for 1 month (22nd May, 2023 to 19th June, 2023) at INDIAN OIL CORPORATION, HALDIA REFINERY under the mentorship of Mr. KANAI CHATTERJEE (SPNM) of LUBE OIL BASE UNIT (LOB). On the basis of his training, he was assigned a project on the topic - "DETAILED PROCESSING IN VDU and CIDW and CALCULATIONS OF NUMBER OF TUBES IN HEAT EXCHANGER (E-14) OF CIDW UNIT AND EFFICIENCY OF FURNACE (F-01)".

This is to certify that he has successfully completed the said project independently and exclusively within the due time.

कानाई चटर्जी वरिष्ठ उत्पादन प्रबंधक
Kanai Chatterjee, Senior Production Manager
इंडियन ऑइल कॉर्पोरेशन लिमिटेड, हल्दिया रिफाइनरी
INDIAN OIL CORPORATION LIMITED, Haldia Refinery

 16/6/23

Mr. Kanai Chatterjee
SPNM, LOB Unit
IOCL, HALDIA



इंडियन ऑयल कॉर्पोरेशन लिमिटेड

हल्दिया रिफाइनरी, डाकघर : हल्दिया ऑयल रिफाइनरी -721606
जिला : पूर्व मेदिनीपुर (प० ब०)

Indian Oil Corporation Limited

Haldia Refinery, P.O.: Haldia Oil Refinery-721606

District : Purba Medinipur, West Bengal

Website : www.iocl.com, E-mail : haldiarefinery@indianoil.in

Fax : 91-3224-252141, Phone : 91-3224-223270



Indian Oil

रिफाइनरीज प्रभाग
Refineries Division

Ref No. HRLC/23-24/S.IT/136s

Date: 10th July 2023

Subject: Completion of Summer Internship at Haldia Refinery (IOCL)
(To Whomsoever It May Concern)

This is to certify that **Mr./Miss. Sayan Guha** studying in 6th Semester, 3rd Year in Chemical Engineering at Heritage Institute Of Technology has undergone Summer Internship at Indian Oil Corporation Limited - Haldia Refinery from 12th June 2023 to 10th July 2023.

The project assigned to him/her was "Calculation of Required Pump Output in WSA Plant". His/Her assessment during the internship period for the above project is as follows:

- Attendance: Excellent
- Project Review / Performance: Very Good
- Learning Ability / Knowledge: Excellent

Satisfactory	Good	Very Good	Excellent	Outstanding
Less Than 60%	60% to 70%	70% to 80%	80% to 90%	Above 90 %

We wish him/her all the success in his/her life.

P Sandilya Chari,
Asst. Manager (L&D),
IOCL – Haldia Refinery.

पि. सन्डिल्या चारी, सहायक प्रबंधक (एल&डी)
P Sandilya Chari, Assistant Manager (L&D)
इंडियन ऑयल लिमिटेड, हल्दिया रिफाइनरी
INDIAN OIL CORPORATION LIMITED, HALDIA REFINERY

Sayan Guha
Chemical Engineering
Heritage Institute Of Technology



UNIVERSITY OF CALCUTTA

DEPARTMENT OF CHEMICAL ENGINEERING
University College of Science & Technology
92, Acharyya Prafulla Chandra Road,
Kolkata-700 009, India
Tel : (033) 2350-8386/6387/6396/1397/9937
Fax : 91-33-2351-9755
Telex : 021-2752 UNIV IN
Gram : SCIENCE

Ref No.....

Date.....

CERTIFICATE

This is to certify that the Internship Report on “**Enhanced performance of electroultrafiltration with pulsating field**” submitted by **Fahim Ahmed**, a 6th semester student (**Roll No.: 12620006022**) of the Department of Chemical Engineering, Heritage Institute of Technology Kolkata, is a bona fide record of the work carried out by him from **01.06.2023** to **15.07.2023** at the **Chemical Engineering Department, University of Calcutta** under my supervision.

Dr. Debasish Sarkar

Associate Professor

Department of Chemical Engineering

University of Calcutta



16.7.23
DR. DEBASISH SARKAR
Associate Professor
Department of Chemical Engineering
92, Acharyya Prafulla Chandra Road
Kolkata- 700 009, India





(Formerly known as Bengal Cracker Complex Limited)

Plant :
Post Box No.-12, Durgachak,
Haldia, Dist.-Purba Medinipore
West Bengal, Pin-721602, India
TEL. : + 91(03224) 274007/384/400/876
WEBSITE : www.haldia Petrochemicals.com
CIN : U24100WB2015PLC205383

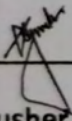
Date: 14 July 23

To Whom It May Concern

This is to certify that Mr. Arunava Das, student of Heritage Institute of Technology, Department of Chemical Engineering, has undergone Industrial Training from 19th June 2023 to 14th July 2023 at our Haldia Plant.

He is being awarded this certificate on satisfactory completion of his training at Haldia Plant.

We wish him all success for his future endeavors.



Tusher Majumder
General Manager – Plant Human Resource



DPL/VOCATIONAL TRG/2023/18

Date: 04th July 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Hritam Jana** student at **Heritage Institute of Technology, Kolkata** has undergone summer internship training at Deepak phenolics limited, Dahej unit for a period from 05th June 2023 to 04th July 2023.

He had submitted the **Project Report** on topic-

1. Catalyst regeneration (Cumene Reactors)

During his training we found him to be honest, sincere & hardworking.

We wish him success in all future endeavors.

FOR DEEPAK PHENOLICS LIMITED.

Manish Rathod
HR Head, Dahej Site
Deepak Phenolics Limited

DEEPAK PHENOLICS LIMITED

CIN: U24100GJ2011PLC064669

Dahej Division : 12/B/1, GIDC Dahej, Village : Ambheta, Taluka : Vagra, Dist : Bharuch, Gujarat, 392 130, India.

Tel. : +91 2641 280700 / 291495

Registered & Corporate Office :

1st Floor, Aaditya - II, Chhani Road, Vadodara - 390024. Gujarat, India.

Tel: +91 265 276 5500 | Fax: +91 265 276 5557

www.godeepak.com





TO WHOM IT MAY CONCERN

19th July 2023

This is to certify that Mr. Swapnadeep Bhattacharjee, a 3rd year B. Tech student of Chemical Engineering of Heritage Institute of Technology, Kolkata has undergone and successfully completed Industrial Internship during the period from 12th June 2023 to 15th July 2023 in the Dept. of Resin Plant, Water Base Paints Plant, Solvent Base Paints Plant, Process Quality Control, Emulsion Plant and Raw Materials Quality Assurance department at our Rishra Works.

He has successfully completed training and submitted the training report during the internship period.

During the internship period we found him a sincere and hardworking person.

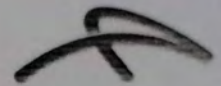
We wish him all success in life.

Prantik Biswas

Sr. Manager - Personnel & I.R.

BERGER PAINTS INDIA LIMITED

Works : 103/2, G. T. Road, P.O. Rishra, Dist : Hooghly, West Bengal, Pin - 712 248, Phone : 7596050640-43
Regd. Office : Berger House, 129 Park Street, Kolkata - 700 017, Phone : 2229 9724-28, 2229 6005-06, Fax : 91-33-2249 9009/9729, www.bergerpaints.com



ArcelorMittal

10th July 2023

TO WHOM IT MAY CONCERN

This is to certify that Mr. Praneel Bhattacharya, a student of Chemical Engineering Department, Heritage Institute of Technology, Kolkata, has undergone vocational training in the Electrical, Instrumentation and Automation Department of our organization, under Mr. Rajesh Singha, from 7th June 2023 to 10th July 2023.

During this period, he was assigned with the training related to the following topic:

“Iron and Steelmaking Process in an Integrated Steel Plant”

We found him to be sincere, hardworking and his performance during the period of training was found to be satisfactory.

For and Behalf of
ArcelorMittal Design And Engineering Centre (P) Limited

Subrata Chatterjee
Head of Human Resources



ArcelorMittal Design And Engineering Centre Private Limited
Registered and Head Office

Godrej Waterside Building, Tower 2, Level 3, Unit 307, Plot No. V,
Street Number 13, DP Block, Sector V, Salt Lake, Kolkata - 700091, India
CIN: U74210WB2008PTC128082
T: +91 33 44148400 | Email id: amdec.ind@arcelormittal.com

ArcelorMittal Design And Engineering Centre Private Limited
Kazakhstan Branch

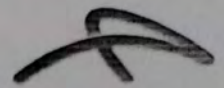
Legal address: M28D4G7, Republic of Kazakhstan,
Karaganda region, Temirtau, 1 Republic Avenue, Office Room #108
(Engineering Building)
Business Identification Number (BIN): 220441044323
T: +7 7710532355 | Email: amdec.kz@arcelormittal.com

«ArcelorMittal Design And Engineering Centre Private Limited» Компания
Тіркелген және Бас Кеңсе

Godrej Waterside ғимараты, Мұнара 2, Деңгей 3, Бөлiмше 307, У-часке № V, Кешiк
Блок DP Сектор V, Үндiстан, Калькутта, Солт-Лейк, 700091
KCN: U74210WB2008PTC128082
T: +91 33 44148400 | Email id: amdec.ind@arcelormittal.com

«ArcelorMittal Design And Engineering Centre Private Limited»
Қазақстандағы Филиалы

Заңды мекенжайы: Қазақстан Республикасы, Қарағанды облысы,
Темiртау қаласы, Республика даңғылы, 1, № 108 кiмсе (Инженерлiк ғимарат),
пошталық индекс M28D4G7
Бизнес сәйкестiндiру нөмiрi (БСН): 220441044323
T: +7 7710532355 | Email: amdec.kz@arcelormittal.com



ArcelorMittal

10th July 2023

TO WHOM IT MAY CONCERN

This is to certify that Ms. Madhurima Datta, a student of Chemical Engineering Department, Heritage Institute of Technology, Kolkata, has undergone vocational training in the Electrical, Instrumentation and Automation Department of our organization, under Mr. Rajesh Singha, from 7th June 2023 to 10th July 2023.

During this period, she was assigned with the training related to the following topic:
"Iron and Steelmaking Process in an Integrated Steel Plant"

We found her to be sincere, hardworking and her performance during the period of training was found to be satisfactory.

For and Behalf of
ArcelorMittal Design And Engineering Centre (P) Limited

Subrata Chatterjee
Head of Human Resources



ArcelorMittal Design And Engineering Centre Private Limited
Registered and Head Office

Godrej Waterside Building, Tower 2, Level 3, Unit 307, Plot No. V,
Street Number 13, DP Block, Sector V, Salt Lake, Kolkata - 700091, India
CIN: U74210WB2008PTC128082
T: +91 33 44148400 | Email id: amdec.ind@arcelormittal.com

ArcelorMittal Design And Engineering Centre Private Limited
Kazakhstan Branch

Legal address: M28D4G7, Republic of Kazakhstan
Karaganda region, Temirtau, 1 Republic Avenue, Office Room #108
(Engineering Building)
Business Identification Number (BIN): 220441044323
T: +7 7710532355 | Email: amdec.kz@arcelormittal.com

«ArcelorMittal Design And Engineering Centre Private Limited» Компания
Тіркелген және Бас Кеңсе

Godrej Waterside ғимараты, Мұнара 2, Деггей 3, Бөлiмше 307, Учаске № V, Көше нөмірі 13,
Блок DP, Сектор V, Үндістан, Калькутта, Солт-Лейк, 700091
KCN: U74210WB2008PTC128082
T: +91 33 44148400 | Email id: amdec.ind@arcelormittal.com

«ArcelorMittal Design And Engineering Centre Private Limited»
Қазақстандағы Филиалы

Заңды мекенжайы: Қазақстан Республикасы, Қарағанды облысы,
Теміртау қаласы, Республика даңғылы, 1, № 108 кеңсе (Инженерлік ғимарат),
пошталық индекс M28D4G7
Бизнес сәйкестендіру нөмірі (БСН): 220441044323
T: +7 7710532355 | Email: amdec.kz@arcelormittal.com



TO WHOM IT MAY CONCERN

19th July 2023

This is to certify that Mr. Arka Patra, a 3rd year B. Tech student of Chemical Engineering of Heritage Institute of Technology, Kolkata has undergone and successfully completed Industrial Internship during the period from 12th June 2023 to 15th July 2023 in the Dept. of Resin Plant, Water Base Paints Plant, Solvent Base Paints Plant, Process Quality Control, Emulsion Plant and Raw Materials Quality Assurance department at our Rishra Works.

He has successfully completed training and submitted the training report during the internship period.

During the internship period we found him a sincere and hardworking person.

We wish him all success in life.

Prantik Biswas
Sr. Manager - Personnel & I.R.

BERGER PAINTS INDIA LIMITED

Works : 103/2, G. T. Road, P.O. Rishra, Dist. : Hooghly, West Bengal, Pin - 712 248, Phone : 7596050640-43
2229 9724-28, 2229 6005-06, Fax : 91-33-2249 9009/9729, www.bergerpaints.com



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AIR WATER INDIA PRIVATE LIMITED

CIN: U74900WB2014FTC203939

July 4th, 2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Abhishek Singh, B.Tech - Chemical Engineering student of Heritage Institute of Technology, Kolkata** has successfully completed the following project with our Operations Onsite team in Air Water India Pvt. Ltd. from 07th June 2023 till 4th July 2023 under the guidance of Ms. Shubhrima Das.

His Internship Project was: "**Type of Heat Exchangers -AWIPL, Jamshedpur**".

During this assignment, he was found to be good.

We wish him all the best.

Yours sincerely,

Archita Bhattacharyya
Head – HR, Corporate Communication & Admin

Registered Office:

DLF IT Park-1,
Tower-A, 11th Floor,
Major Arterial Road,
Block-AF, Action Area-1,
New Town, Rajarhat,
Kolkata-700156,

Parbangla

Parbangla, Via
Batanagar,
PO: Parbangla,
District: South 24
Parganas,
Kolkata-700140

Asansol

G.T. Road,
PO: Ningha,
Taluka: Jamuria
District:
Paschim
Bardhaman

Jharkhand

Tatanagar
Near Biswakarma
Technical
Institute
Garamnallah,
Jharkhand

Factory:

Bellary

(1800 TPD Plant)
Inside JSW Steel
Limited Premises,
Toranagallu,

Hyderabad

Plot No:178 & 179/A
Survey No:183,184 & 185,
Phase-III, Iala
IP- Pashamylaram (V),
Bateswara

Chennai

Plot No. G21 Sipcot
Industrial Park,
Irungattukottai
Sriperumbudur.



Dr. Sanjib Barma ME, Ph.D.
Assistant Professor
Department of Chemical Technology
University of Calcutta
92, A.P.C. Road, Kolkata 700 009 (INDIA)



Fax : 91-033-2351-9755
Phone : 2350-8386 / 6387 / 1397 (Off.)
M : 7898889085 7003225579
e-mail : sanjib.burma@gmail.com

INTERNSHIP CERTIFICATE

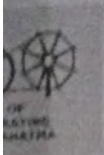
To whom it may concern

This is to certify that **Soumyadeep Kushary** has successfully completed the internship on "FABRICATION OF TUBULAR MEMBRANE SUPPORTS PREPARED BY EXTRUSION METHOD" during the time period of 5th June, 2023 to 5th July, 2023 under my supervision. I appreciate his work and contributions.

Sanjib Barma
26/07/2023

Dr. Sanjib Barma
Assistant Professor,
Department of Chemical Technology
University of Calcutta

DR. SANJIB BARMA
Assistant Professor
Department of Chemical Technology
University of Calcutta
92, A. P. C. Road, Kolkata-700009



इंडियन ऑयल कॉर्पोरेशन लिमिटेड
हल्दिया रिफाइनरी, डाकघर : हल्दिया ऑयल रिफाइनरी - 721606
जिला : पूर्व मेदिनीपुर (पब बंग)

Indian Oil Corporation Limited

Haldia Refinery, P.O. : Haldia Oil Refinery-721606
District : Purba Medinipur, West Bengal
Website : www.iocl.com, E-mail : haldia.refinery@indianoil.in
Fax : 91-3224-252141, Phone : 91-3224-223270



IndianOil

तज प्रभाग
Gas Division

Ref No. HRLC/23-24/S.IT/52s

Date: 26th June 2023

Subject: Completion of Summer Internship at Haldia Refinery (IOCL)
(To Whomsoever It May Concern)

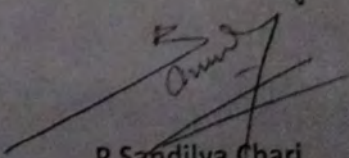
This is to certify that Mr./Miss. Priyanshu Sanyal studying in 6th Semester, 3rd Year in Chemical Engineering at Heritage Institute Of Technology has undergone Summer Internship at Indian Oil Corporation Limited - Haldia Refinery from 29th May 2023 to 26th June 2023.

The project assigned to him/her was "Furnace Efficiency Calculations". His/Her assessment during the internship period for the above project is as follows:

- Attendance: Outstanding
- Project Review / Performance: Excellent
- Learning Ability / Knowledge: Excellent

Satisfactory	Good	Very Good	Excellent	Outstanding
Less Than 60%	60% to 70%	70% to 80%	80% to 90%	Above 90 %

We wish him/her all the success in his/her life.



P Sandilya Chari,
Asst. Manager (L&D),

IOCL – Haldia Refinery.

P Sandilya Chari, Assistant Manager (L & D)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड, हल्दिया रिफाइनरी
INDIAN OIL CORPORATION LIMITED, Haldia Refinery

Priyanshu Sanyal
Chemical Engineering
Heritage Institute Of Technology



TO WHOM IT MAY CONCERN

19th July 2023

This is to certify that Mr. Ritam Das, a 3rd year B. Tech student of Chemical Engineering of Heritage Institute of Technology, Kolkata has undergone and successfully completed Industrial Internship during the period from 12th June 2023 to 15th July 2023 in the Dept. of Resin Plant, Water Base Paints Plant, Solvent Base Paints Plant, Process Quality Control, Emulsion Plant and Raw Materials Quality Assurance department at our Rishra Works.

He has successfully completed training and submitted the training report during the internship period.

During the internship period we found him a sincere and hardworking person.

We wish him all success in life.

Prantik Biswas

Sr. Manager - Personnel & I.R.

BERGER PAINTS INDIA LIMITED

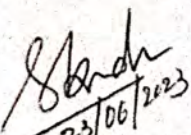
Works : 103/2, G. T. Road, P.O. Rishra, Dist. : Hooghly, West Bengal, Pin - 712 248, Phone : 7596050640-43
Regd. Office : Berger House, 129 Park Street, Kolkata - 700 017, Phone : 2229 9724-28, 2229 6005-06, Fax : 91-33-2249 9009/9729, www.bergerpaints.com

CERTIFICATE

This is to certify that, this project report on Vacuum Distillation Unit (VDU) and Resid Fluid Catalytic Cracking Unit(RFCC) which is a section of DHDS BLOCK was prepared by **Jumasri Ganguly** (Roll No. 2055066, 3rd year), student of **Bachelor of Technology** in Chemical Engineering at **Heritage Institute of Technology, Kolkata**. She have undergone In- Plant Summer Internship from 29.05.23 to 26.06.23 at **Indian Oil Corporation Limited, Haldia Refinery** and have completed the internship under my supervision.

During the above period, her performance was satisfactory.

I wish a bright future in her life.


23/06/2023
Mr. S P Kundu
SPNM, DHDS Unit
IOCL, Haldia

Mr. P Sandilya Chari
Assistant Manager (L&D)
IOCL, Haldia



31 July 2023

Subject: Internship Certificate Letter

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Anamika Sarkar** (B.Tech-Chemical, Heritage institute of Technology, Kolkata) has successfully completed an internship with **Himadri Speciality Chemical Limited** as an Intern from **1 June 2023 to 31 July 2023**.

She has maintained a professional demeanor and showcased moral character throughout the internship period.

We hereby certify her overall work as satisfactory.

Wishing her the best of luck in her future endeavors.

For **Himadri Speciality Chemical Limited**



Authorized Signatory
Ms. Sreerupa Kundu Ghosh
Sr. Manager - HR



(Formerly known as Bengal Cracker Complex Limited)

Plant
Post Box No -12, Durgachak,
Haldia, Dist -Purba Medinipore
West Bengal, Pin-721602, India
TEL. : + 91(03224) 274007/384/400/376
WEBSITE : www.haldia Petrochemicals.com
CIN : U24100WB2015PLC205383

Date: 14 July 23

To Whom It May Concern

This is to certify that Ms. Urjoshi Chatterjee, student of Heritage Institute of Technology, Department of Chemical Engineering, has undergone Industrial Training from 19th June 2023 to 14th July 2023 at our Haldia Plant.

She is being awarded this certificate on satisfactory completion of her training at Haldia Plant.

We wish her all success for her future endeavors.

Tusher Majumder
General Manager – Plant Human Resource



July 05, 2023

TO WHOM IT MAY CONCERN

This is to certify that Ms. Suchita Gora, pursuing her third year of B.Tech course in Chemical Engineering from Heritage Institute of Technology, Kolkata has completed her Vocational Training starting from June 07, 2023 to July 05, 2023 as trainee in our organization.

During this period, she was given training on fuel balance in a Steel Plant, details of a Compressor and sizing of an Industrial Compressor, stress analysis of pipe and Heating, Ventilation and Air Conditioning (HVAC).

She took keen interest and completed the assignment successfully as per schedule

She is hard working and sincere towards her job. Her performance and conduct during the period of training was found to be satisfactory.

M.N. DASTUR & COMPANY (P) LTD

Dhritiman Ray
Senior Manager – HR

DhR:trna



TO WHOM IT MAY CONCERN

19th July 2023

This is to certify that Miss. Priyanjali Das, a 3rd year B. Tech student of Chemical Engineering of Heritage Institute of Technology, Kolkata has undergone and successfully completed Industrial Internship during the period from 12th June 2023 to 15th July 2023 in the Dept. of Resin Plant, Water Base Paints Plant, Solvent Base Paints Plant, Process Quality Control, Emulsion Plant and Raw Materials Quality Assurance department at our Rishra Works.

She has successfully completed training and submitted the training report during the internship period.

During the internship period we found her a sincere and hardworking girl.

We wish her all success in life.

Prantik Biswas
Sr. Manager - Personnel & I.R.

BERGER PAINTS INDIA LIMITED

Works : 103/2, G. T. Road, P.O. Rishra, Dist : Hooghly, West Bengal, Pin - 712 248, Phone : 7596050640-43
Regd. Office : Berger House, 129 Park Street, Kolkata - 700 017, Phone : 2229 9724-28, 2229 6005-06, Fax : 91-33-2249 9009/9729, www.bergerpaints.com





DASTUR

July 05, 2023

TO WHOM IT MAY CONCERN

This is to certify that Ms. Jahnvi Singh, pursuing her third year of B.Tech course in Chemical Engineering from Heritage Institute of Technology, Kolkata has completed her Vocational Training starting from June 07, 2023 to July 05, 2023 as trainee in our organization.

During this period, she was given training on fuel balance in a Steel Plant, details of a Compressor and sizing of an Industrial Compressor, stress analysis of pipe and Heating, Ventilation and Air Conditioning (HVAC).

She took keen interest and completed the assignment successfully as per schedule.

She is hard working and sincere towards her job. Her performance and conduct during the period of training was found to be satisfactory.

M.N. DASTUR & COMPANY (P) LTD

Dhritiman Ray
Senior Manager – HR

DhR:trna

M. N. Dastur & Company (P) Ltd
Consulting Engineers

P-17 Mission Row Extension
Kolkata 700013, India.

T +91 33 2225 0500 / 5420
F +91 33 2225 1422 / 7101
kolkata@dastur.com
www.dastur.com

CIN: U74210WB1955PTC022399



(Formerly known as Bengal Cracker Complex Limited)

Plant :
Post Box No.-12, Durgachak,
Haldia, Dist.-Purba Medinipore
West Bengal, Pin-721602, India
TEL. : + 91(03224) 274007/384/400/876
WEBSITE : www.haldia Petrochemicals.com
CIN : U24100WB2015PLC205383

Date: 14 July 23

To Whom It May Concern

This is to certify that Mr. Prithul Das, student of Heritage Institute of Technology, Department of Chemical Engineering, has undergone Industrial Training from 19th June 2023 to 14th July 2023 at our Haldia Plant.

He is being awarded this certificate on satisfactory completion of his training at Haldia Plant.

We wish him all success for his future endeavors.

Tusher Majumder
General Manager – Plant Human Resource