

## SCHOOL OF ENGINEERING












### DEPARTMENT OF PETROLEUM ENGINEERING

#### List of Projects carried out in the Academic Year 2022-2023 (2019-2023 Batch)

Sl. No.	Academic Year	Title of the Project	Name of the Supervisor
1	2022-23	Numerical Simulation for Enhanced Heavy Oil Recovery using CMG Software	Dr. Abhinav Kumar
2	2022-23	DEVELOPMENT OF EMULSION BASED DRILLING FLUID AND COMPARISON WITH WATER BASED DRILLING FLUID BASED ON DRILLING FLUID PROPERTIES	Dr. Barasha Deka
3	2022-23	STUDY THE EFFECT OF GAS HYDRATE INHIBITORS ON DRILLING FLUID PROPERTIES	Dr. Barasha Deka
4	2022-23	Effect of Natural Surfactants on Wettability Alteration on Carbonate Rock Samples	Dr. Deepjyoti Mech
5	2022-23	Formulation of Non-Damaging Drilling fluid (NDDF) Using Solanum Tuberosum and the Effect of Salt	Dr. Deepjyoti Mech
6	2022-23	OIL SPILLS REMEDIATION USING RICE STRAW FIBERS BY ADSORPTION METHOD	Dr. Kalpajit Hazarika
7	2022-23	DEVELOPMENT OF HYBRID DRILLING FLUID AND ENZYME-ACID PRECURSOR-BASED CLEAN-UP FLUID FOR WELLS	Dr. Kalpajit Hazarika
8	2022-23	PRODUCTION OF BIOFUEL FROM GRAPE LEAVES	Dr. Sourav Mukherjee
9	2022-23	Creation of Gas dehydration unit (GDU) and Dew point Depressant unit (DPDU) facilities	Dr. Suman Paul
10	2022-23	Green Drilling Fluid: Use of Eucalyptus extract in water based drilling fluid	Mr. Bhairab Jyoti Gogoi
11	2022-23	Eco-friendly Drilling fluid: An Experimental investigation on effect of organic waste products on rheological and filtration loss properties of Water Based Drilling fluid	Mr. Bhairab Jyoti Gogoi
12	2022-23	PHASE BEHAVIOR PREDICTION OF BINARY MIXTURES USING PENG-ROBINSON EQUATION OF STATE	Mr. Gaurav Kundu
13	2022-23	PHASE BEHAVIOR STUDY OF RESERVIOR FLUID USING EQUATION OF STATE MODELLING	Mr. Gaurav Kundu


  
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**Certificate of the Projects carried out in the Academic Year 2022-2023  
(2019-2023 Batch)**

Sl. No.	Academic Year	Certificate
1	2022-23	<div style="text-align: center;">  <h2>PRESIDENCY UNIVERSITY</h2> <p>Private University Estd. in Karnataka State by Act No. 41 of 2013</p>  <h3>DEPARTMENT OF PETROLEUM ENGINEERING</h3> <h3><u>CERTIFICATE</u></h3> <p>This is to certify that this report “Numerical simulation for Enhanced Heavy Oil Recovery using CMG Software” is a bonafide work of “KRITIKA (20191PET0021), TANIYA K G (20191PET0055), MOHAMMED ADNAN (20191PET0028), JAFFAR SADIQ M R (20191PET9007)” who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">   <b>Dr. Abhinav Kumar</b>            Project Guide            Petroleum Engineering            Presidency University         </div> <div style="text-align: center;">   <b>Dr. Suman Paul</b>            HOD            Petroleum Engineering            Presidency University         </div> <div style="text-align: center;">   <b>Dr. Shrishail Anadinni</b>            Associate Dean            School of Engineering            Presidency University         </div> <div style="text-align: center;">   <b>Dr. Abdul Sharief</b>            Dean            School of Engineering            Presidency University         </div> </div> <div style="margin-top: 20px;"> <p><b>Name and Signature of the Examiners</b></p> <p>1) Dr. Abhinav kumar  05/06/2023</p> <p>2) Dr. Deepjyoti Mehta  5/6/23</p> <p>3) Dr. Suman Paul -  05/06/23</p> </div> <div style="text-align: right; margin-top: 10px;">           REGISTRAR   </div> </div>


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2022-23



## PRESIDENCY UNIVERSITY





Private University Estd. in Karnataka State by Act No. 41 of 2013





**DEPARTMENT OF PETROLEUM ENGINEERING**


**CERTIFICATE**

This is to certify that this report “**DEVELOPMENT OF EMULSION BASED DRILLING FLUID AND COMPARISON WITH WATER BASED DRILLING FLUID BASED ON DRILLING FLUID PROPERTIES**” is a bonafide work of “RIZWAN (20191PET0068), FERUZ AHMED KHUDAVAND (20191PET0012), MOHAMMED ZAIN YC (20191PET0036), THOTA GUNA NAGA MURARI (20191PET0059)”, who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.

 <b>Dr. Barasha Deka</b> Project Guide Petroleum Engineering Presidency University	 <b>Dr. Suman Paul</b> HOD Petroleum Engineering Presidency University	 <b>Dr. Shrishail Anadinni</b> Associate Dean School of Engineering Presidency University	 <b>Dr. Abdul Sharief</b> Dean School of Engineering Presidency University
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**Name and Signature of the Examiners**

- 1) Dr. Barasha Deka  05/06/2023
- 2) Dr. Suman Mukherjee  05/06/23
- 3) Dr. Suman Paul -  05/06/23



  
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2022-23



## PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013



### DEPARTMENT OF PETROLEUM ENGINEERING

#### CERTIFICATE

This is to certify that this report "STUDY THE EFFECT OF GAS HYDRATE INHIBITORS ON DRILLING FLUID PROPERTIES" is a bonafide work of ASWIN KS (20191PET0005), JESWIN JAVAD (20191PET0018), MOHAMED SUHAIL (20191PET0027) and MOHAMMED ISHAQ (20191PET0030), who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.

*Barasha Deka.*

**Dr. Barasha Deka**  
Project Guide  
Petroleum Engineering  
Presidency University

*S Paul*

**Dr. Suman Paul**  
HOD  
Petroleum Engineering  
Presidency University

*A.*

**Dr. Shrishail Anadinni**  
Associate Dean  
School of Engineering  
Presidency University

*Abdul Sharief*

**Dr. Abdul Sharief**  
Dean  
School of Engineering  
Presidency University

#### Name and Signature of the Examiners

- 1) *Dr. Barasha Deka* *Barasha Deka.*  
05/06/2023
- 2) *Dr. Abhinav Kumar* *Abinav*  
05/06/2023
- 3) *Dr. Suman Paul* - *S Paul*  
05/06/23

**EXAMINED**

*Suman*  
REGISTRAR  
PRESIDENCY UNIVERSITY  
BANGALORE



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2022-23



## PRESIDENCY UNIVERSITY

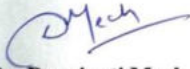
Private University Estd. in Karnataka State by Act No. 41 of 2013




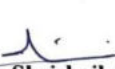
### DEPARTMENT OF PETROLEUM ENGINEERING

### CERTIFICATE

This is to certify that this report "Effect of Natural Surfactants on Wettability Alteration on Carbonate Rock Samples" is a bonafide work of "MOIDEEN ANSAF (20191PET0038), SAI DINESH M (20191PET0046), SAMEER MUHAMMED (20191PET0048), SANAMPUDI VENKATA RAMI REDDY (20191PET0049), SHAIK MUJEEB UR REHAMAN (20191PET0067)", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.

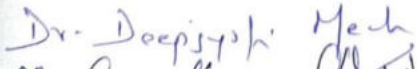





  
**Dr. Deepjyoti Mech**  
Project Guide  
Petroleum Engineering  
Presidency University

  
**Dr. Suman Paul**  
HOD  
Petroleum Engineering  
Presidency University

  
**Dr. Shrishail Anadinni**  
Associate Dean  
School of Engineering  
Presidency University

  
**Dr. Abdul Sharief**  
Dean  
School of Engineering  
Presidency University

#### Name and Signature of the Examiners

- 1)  Mech —  5/6/23
- 2)  Ms. Gauri Khandu.  05/04/23
- 3)  Dr. Suman Paul —  05/06/23

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2022-23



## PRESIDENCY UNIVERSITY

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### DEPARTMENT OF PETROLEUM ENGINEERING

#### CERTIFICATE

This is to certify that this report "Formulation of Non-Damaging Drilling Fluid (NDDF) Using Solanum Tuberosum and the Effect of Salt" is a bonafide work of "Mohammed Muzammil Patvegar (20191PET0032), Mohd Zubair (20191PET0037), Rishu Singh (20191PET0043), Rizvi Abusamama (20191PET0044), Shaikh Adnan ZakirHusain (20191PET0052)", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.



**Dr. Deepjyoti Mech**  
Project Guide  
Petroleum Engineering  
Presidency University



**Dr. Suman Paul**  
HQD  
Petroleum Engineering  
Presidency University


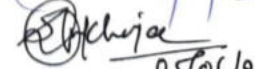



**Dr. Shrishail Anadinni**  
Associate Dean  
School of Engineering  
Presidency University



**Dr. Abdul Sharief**  
Dean  
School of Engineering  
Presidency University

#### Name and Signature of the Examiners

- 1) **Dr. Deepjyoti Mech** -  5/6/23
- 2) **Dr. Suman Paul** -  05/06/23
- 3) **Dr. Suman Paul** -  05/06/23

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2022-23



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### DEPARTMENT OF PETROLEUM ENGINEERING

#### CERTIFICATE

This is to certify that this report "OILSPILLS REMEDIATION USING RICE STRAW FIBERS BY ADSORPTION METHOD" is a bonafide work of "GILAKA PAVAN (20191PET0015), SHAIK MUSTAK (20191PET0051), PILLI KALYAN KUMAR (20191PET9002), Y. VENKAT (20191PET0063), U. DIVKAR REDDY (20191PET0061)", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.

*[Signature]*  
30-05-2023

**Dr. Kalpajit Hazarika**  
Project Guide  
Petroleum Engineering  
Presidency University

*[Signature]*  
05/06/23

**Dr. Suman Paul**  
HOD  
Petroleum Engineering  
Presidency University

*[Signature]*

**Dr. Shrishail Anadinni**  
Associate Dean  
School of Engineering  
Presidency University

*[Signature]*

**Dr. Abdul Sharief**  
Dean  
School of Engineering  
Presidency University

#### Name and Signature of the Examiners

- 1) *Dr. Kalpajit Hazarika* *[Signature]* 05/06/23
- 2) *Dr. Barkasha Deka - Barkasha Deka* *[Signature]* 5/6/23
- 3) *Dr. Suman Paul - Suman Paul* *[Signature]* 05/06/23

**EXAMINED**

*[Signature]*  
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PRESIDENCY UNIVERSITY  
Bangalore



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2022-23



## PRESIDENCY UNIVERSITY

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### DEPARTMENT OF PETROLEUM ENGINEERING

#### CERTIFICATE

This is to certify that this report "Development of Hybrid Drilling Fluid and Enzyme-Acid Precursor-Based Clean-Up fluid for Wells" is a bonafide work of "AMAN TAHASILDAR (20191PET0003), MOHAMMED AFZAL (20191PET0029), MOHAMMED TAHA (2019PET0034), TAUSIF AHMED (20191PET0058)", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.



**Dr. Kalpajit Hazarika**  
Project Guide  
Petroleum Engineering  
Presidency University



**Dr. Suman Paul**  
HOD  
Petroleum Engineering  
Presidency University


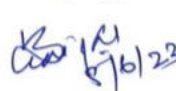



**Dr. Shrishail Anadinni**  
Associate Dean  
School of Engineering  
Presidency University



**Dr. Abdul Sharief**  
Dean  
School of Engineering  
Presidency University

#### Name and Signature of the Examiners

- 1) *Dr. Kalpajit Hazarika*  27/10/23
- 2) *Blairab Jay Gopal*  27/10/23
- 3) *Dr. Suman Paul* -  27/10/23

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2022-23



## PRESIDENCY UNIVERSITY

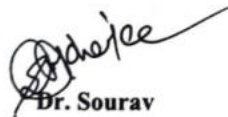
Private University Estd. in Karnataka State by Act No. 41 of 2013



### DEPARTMENT OF PETROLEUM ENGINEERING

#### CERTIFICATE

This is to certify that this report of "PRODCUTION OF BIOFUEL FROM GRAPE LEAVES" is a bonafide work of "HITHESH PV (20191PET0017), KADIRI LALITHA (20191PET0019), KUSHAL K (20191PET0022), PRASHANTH R (20191PET0042), SYED IKHLAS (20191PET0054)", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.



**Dr. Sourav  
Mukherjee**  
Project Guide  
Petroleum  
Engineering  
Presidency  
University



**Dr. Suman  
Paul**  
HOD  
Petroleum  
Engineering  
Presidency  
University

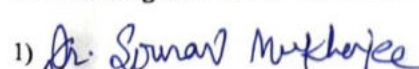





**Dr. Shrishail  
Anadinni**  
Associate  
Dean  
School of  
Engineering  
Presidency  
University





**Dr. Abdul  
Sharief**  
Dean  
School of  
Engineering  
Presidency  
University

#### Name and Signature of the Examiners

- 1)   05/06/23
- 2) Mr. Gauri Kunder  05/06/23
- 3) **Dr. Suman Paul** -  05/06/23

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2022-23



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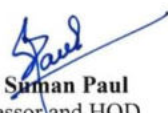


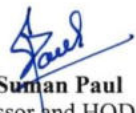
### DEPARTMENT OF PETROLEUM ENGINEERING


#### CERTIFICATE


This is to certify that this report "Creation of Gas dehydration unit (GDU) and Dew point Depressant unit (DPDU) facilities" is a bonafide work of "M.SAI PRANAV (20201LPE001)", who have successfully carried out the project work and submitted the report for partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.

**Mr. Rajan Sivasubramanian**  
HOD of Process Engineering  
JSC GOLLA ENG PVT.TLD  
Chennai




  
**Dr. Suman Paul**  
Professor and HOD  
Dept of Petroleum Engineering  
Presidency University

  
**Dr. Suman Paul**  
Professor and HOD  
Dept of Petroleum Engineering  
Presidency University

  
**Dr. Shrishail Anadinni**  
Associate Dean (Core Branches)  
School of Engineering  
Presidency University

  
**Dr. Abdul Sharief**  
Dean  
School of Engineering  
Presidency University

#### Name and Signature of the Examiners

- 1) **Dr. Sonam Mukherjee**  05/06/23
- 2) **Mr. Gaurav Khudra**  05/06/23
- 3) **Dr. Suman Paul**  05/06/23

  
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2022-23



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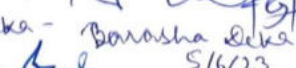

### DEPARTMENT OF PETROLEUM ENGINEERING

### CERTIFICATE

This is to certify that this report "Green Drilling Fluid: Use of Eucalyptus extract in water based drilling fluid" is a bonafide work of "AHIL SHA MC (20191PET0001), AKASH S (20191PET0002), GANESH KUMAR POTHAN (20191PET0014), M MOHAMED ALFIATH (20191PET0023), P SUHAIL AHMED (20191PET0041)", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.

			
<b>Mr. Bhairab Jyoti Gogoi</b> Project Guide Petroleum Engineering Presidency University	<b>Dr. Suman Paul</b> HOD Petroleum Engineering Presidency University	<b>Dr. Shrishail Anadinni</b> Associate Dean School of Engineering Presidency University	<b>Dr. Abdul Sharief</b> Dean School of Engineering Presidency University

#### Name and Signature of the Examiners

- 1) Mr. Bhairab Jyoti Gogoi - 
- 2) Dr. Barasha Deka -  Barasha Deka. 5/6/23
- 3) Dr. Suman Paul -  Paul 05/06/23

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2022-23



## PRESIDENCY UNIVERSITY


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### DEPARTMENT OF PETROLEUM ENGINEERING


#### CERTIFICATE

This is to certify that this report **Eco-friendly Drilling fluid: An Experimental investigation on effect of organic waste products on rheological and filtration loss properties of Water Based Drilling fluid** is a Bonafede work of MOHAMMED UZMAIR M (20191PET0035), SHRAVAN KUMAR M (20191PET0053), VEMULA PRASHANTH (20191PET0062), ANSTIN SUNNY (20191PET9004), SHIVAKUMAR PATIL (20201LPE0003) who have successfully carried out the project work and submitted the report for partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.


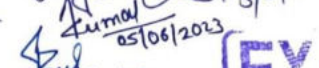
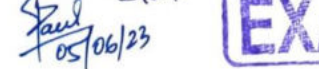
  
Mr. Bhairab Jyoti  
Gogoi  
Project Guide  
Petroleum Engineering  
Presidency University

  
Dr. Suman Paul  
HOD  
Petroleum Engineering  
Presidency University

  
Dr. Shrishail Anadinni  
Associate Dean  
School of Engineering  
Presidency University

  
Dr. Abdul Sharief  
Dean  
School of Engineering  
Presidency University

#### Name and Signature of the Examiners

- 1) Bhairab Jyoti Gogoi 
- 2) Dr. Abhinav Kumar 
- 3) Dr. Suman Paul - 

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REGISTRAR  
PRESIDENCY UNIVERSITY  
BANGALORE

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2022-23



## PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013



### DEPARTMENT OF PETROLEUM ENGINEERING

#### CERTIFICATE

This is to certify that this report "PHASE BEHAVIOR PREDICTIONS OF BINARY MIXTURES USING PENG-ROBINSON EQUATION OF STATE" is a bonafide work of "NABEED MUNNA (20191PET0039), MIDHUN M M (20191PET0024), MOHAMED MUNAWAR HUSSAIN (20191PET0026), HARI GOVID V (20191PET0016), NVM VASISTA (20191PET0040)", who have successfully carried out the project work and submitted the report for partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.



**Mr. Gaurav Kundu**  
Project Guide  
Petroleum Engineering  
Presidency University



**Dr. Suman Paul**  
HOD  
Petroleum Engineering  
Presidency University






**Dr. Shrishail Anadinni**  
Associate Dean  
School of Engineering  
Presidency University



**Dr. Abdul Sharief**  
Dean  
School of Engineering  
Presidency University

#### Name and Signature of the Examiners

- 1) Gaurav Kundu,  05/06/23
- 2) Dr. Suman Mukherjee,  05/06/23
- 3) Dr. Suman Paul,  05/06/23

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2022-23



## PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013



### DEPARTMENT OF PETROLEUM ENGINEERING

### CERTIFICATE

This is to certify that this report "PHASE BEHAVIOUR STUDY OF RESERVOIR FLUID USING EQUATION OF STATE MODELLING" is a bonafide work of "MOHAMMED REEHAN AZHAR - 20191PET0033, SYED SADIQ PASHA-20201LPE0002, MIDHUN SUBHASH- 20191PET0025, SHABEER AHMED - 20191PET9006", who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in PETROLEUM ENGINEERING during 2022-2023.

*GK/Kh*  
05/06/23

**Mr. Gaurav Kundu**  
Project Guide  
Petroleum Engineering  
Presidency University

*S Paul*  
**Dr. Suman Paul**  
HOD  
Petroleum Engineering  
Presidency University

*[Signature]*  
**Dr. Shrishail Anadinni**  
Associate Dean  
School of Engineering  
Presidency University

*[Signature]*

**Dr. Abdul Sharief**  
Dean  
School of Engineering  
Presidency University

**Name and Signature of the Examiners**

1) *Gaurav Kundu GK/Kh 05/06/23*

2) *Dr. Suman Paul - S Paul 05/06/23*

3) *Dr. Suman Paul - S Paul 05/06/23*

**EXAMINED**

*[Signature]*  
REGISTRAR  
PRESIDENCY UNIVERSITY  
BANGALORE