**CURRICULUM VITAE**

**Dr. (Mrs.) Subrata Borgohain Gogoi**

Correspondence language: English, Assamese and Hindi

Sex: Female

**Designation**

Dean, Faculty of Earth Sciences and Energy

Professor & Head, Department of Petroleum Technology

**Contact Information**

The primary information is denoted by (\*)

**Address**

Primary Affiliation (\*)

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**Civil Status**

Married, 2 children

**Homepage :** Web link of your profile:

<https://dibru.ac.in/userlist/welcome/profile/189>

## AD Scientific Index 2021

https://www.adscientificindex.com/scientist.php?id=434420

**Google Scholar page:** <https://scholar.google.co.in/citations?user=BchqJ0gAAAAJ&hl=en>

**Scopus ID:** 35217807700

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F

**Vidwan:**

https://vidwan.inflibnet.ac.in/profile/52543

**Degrees**

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| --- | --- |
| 24.8.07 | Ph.D  Thesis entitled: Flow through porous media with special reference to Enhanced Oil Recovery of Oil India Ltd., Duliajan  Department of Petroleum Technology  Dibrugarh University  Supervisors: Dr. N.N. Dutta (IIT-Guwahati in lien from NEIST, Jorhat) & Prof. K.D. Gogoi (Department of Petroleum Technology, Dibrugarh University), 2003 -2007 |
| Aug’96-Aug’98 | Master of Technology  Dissertation entitled: Modernization of Digboi Refinery  Department of Petroleum Technology  Dibrugarh University, Assam, India |
| Sept’90-Oct’91 | P.G. Diploma  Department of Petroleum Technology  Dibrugarh University, Assam, India |
| June’85-Feb’89 | Bachelor of Engineering  Chemical Engineering  Assam Engineering College  Guwahati University, Assam, India |
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**Employment**

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| **SI.**  **No.** | **Designation, and place of posting** | **Organization** | **From** | **To** | **Pay matrix/scale (INR)** |
| 1 | Dean, Faculty of Earth Sciences & Energy | Dibrugarh University | 9.8.23 | - | 1,44,200 – 2,18,200/-  (Pay matrix) |
| 2 | Head & Professor | Dibrugarh University | 1.2.21 | - | 37,400-67,000+ AGP10,000 |
| 3 | Professor | Dibrugarh University | 26.6.14 | 31.1.21 | 37,400-67,000+ AGP10,000 |
| 4 | Associate Professor | Dibrugarh University | 26.6.11 | 26.6.14 | 37,400-67,000+  AGP 9,000 |
| 5 | Head & Associate Professor | Dibrugarh University | 26.5.13 | 12.1.15 | 37,400-67,000+  AGP 9,000 |
| 6 | Reader | Dibrugarh University | 26.5.08 | 26.5.11 | 15,600-39,100+  AGP 8,000 |
| 7 | Senior Lecturer | Dibrugarh University | 13.12.05 | 26.5.08 | 15,600-39,100+  AGP 6,000 |
| 8 | Senior Lecturer | Dibrugarh University | 17.12.01 | 13.12.05 | 12,000-420-1,83,000 |
| 9 | Lecturer | Dibrugarh University | 17.3.94 | 17.12.01 | 2200-75-2800-100-400 |
| 10 | Engineer (Technical Services) | Bongaigoan Refinery and Petrochemicals Ltd. | 19.10.91 | 14.3.94 | Gross pay=20000 |

**Research Disciplines:** Petroleum Exploration & Production, Environmental technology in petroleum industries, Petroleum Refining and Petrochemicals

**Areas of Research:** Enhanced Oil Recovery, Oil Field Produced Water treatment and Management, Solid waste management, Environmental effects of drilling waste discharges, Designing of a Non-Damaging Drilling Fluid, Rheology of crude oil.

**Programmes Taught**

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| 1. **M. Tech. in Petroleum Technology (Petroleum Exploration & Production)** | | |
| Course no. PT 105 (T) & PT 105 (P) : | Flow through porous media | |
| Course no. PT 206 (T) & PT 206 (P) : | Enhanced Oil Recovery | |
| Course no. PT 301 : | HSE and Risk Management | |
| Course no. PT 3D1 : | Minor Project | |
| Course no. PT 401 : | Dissertation | |
|  |  | |
| **2**. **One year Diploma in Oil Well Drilling Technology** | | |
| Course no. OW 202 : | HSE and Risk Management | |
|  | | |
| 1. **Pre-Registration Course work for PhD in Petroleum Technology** | | |
| Course I : | | Research Methodology (Core) |
| Course II: | | Production Engineering |
| Course III: | | Petroleum Economics & Environmental Management |

**Awards and Recognitions**

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| 2-13th May’23; | Visiting Indian Professor / Principal Investigator to Clean Energy Research Lab. of Ontario Tech University in connection with DST - IC IMPACTS, Canada project No. DST/INT/CAN/P-02/2019; under Department of Science & Technology, Government of India, (International Bilateral Cooperation Division), Government of India. |
| 28 th Nov’22 | Invited as a Resource Person for the Refresher Course on Women Empowerment: Issues and Challenges and Social Issues on Child and Women Development, conducted by UGC-Human Resource Development Centre, Gauhati University, during the period from 16.11.22 to 01.12.22 to deliver a lecture on, “Women doing Science and Research”, on 28.11.22. |
| 20-22 May’22 | The paper entitled, “Computational Analysis of Crude Oil pipeline transportation”, authored by Bondita Robidas, Madhurjya Phukan, Subrata Borgohain Gogoi and Akashdeep Hazarika. Bondita Robidas was awarded the Springer Best Paper Presentation Award (Oral) in the track of, “Sustainable Transportation and Urban Development”, at the North-East Research Conclave (NERC) Towards – Sustainable Science & Technology, Assam Biotech Conclave -2022, Venue: IIT Guwahati. |
| 6th May’22 | Invited as a Keynote speaker to deliver a talk on the theme: Impact of Water on Hydrocarbon, at the National Conference on Water Management on 5th & 6th May’22 sponsored by the Department of Science and Technology – Science and Engineering Research Board, New Delhi, organised by the Department of Petroleum Technology, Dibrugarh University, Dibrugarh. |
| 30th April’22 | Invited as a Special Guest Speaker in Valedictory function to be held on 30th April 2022, on the occasion of Sanrakshan Kshamata Mahotsav (SAKSHAM-2022), as per the directives of the Ministry of Petroleum & Natural Gas, ‘Oil & Gas Conservation Mass Awareness Campaign (SAKSHAM-2022)’ on the theme “Azadi Ka Amrit Mahotsav through Green & Clean Energy”, at IOCL (AOD) Digboi. |
| 27th April’22 | Invited as an eminent trainer for the awareness program arranged for the workers on 27th April 2022, on the occasion of Sanrakshan Kshamata Mahotsav (SAKSHAM-2022), as per the directives of the Ministry of Petroleum & Natural Gas, ‘Oil & Gas Conservation Mass Awareness Campaign (SAKSHAM-2022)’ on the theme “Azadi Ka Amrit Mahotsav through Green & Clean Energy”, at Brahmaputra Cracker and Polymer Limited (BCPL), Dibrugarh. |
| 27th April’22 | Invited as the Guest A resource person to deliver a talk on, “Enhanced Oil Recovery”, at Short Term Training Programme, sponsored by AICTE, New Delhi and organised by the Department of Petroleum Technology, Dibrugarh University, Dibrugarh |
| 21st April’22 | A resource person to deliver a talk on, “Enhanced Oil Recovery”, at Short Term Training Programme, sponsored by AICTE, New Delhi and organised by the Department of Petroleum Technology, Dibrugarh University, Dibrugarh |
| 19th April’22 | A resource person to deliver a talk on, “Flow through Porous Media”, at Short Term Training Programme, sponsored by AICTE, New Delhi and organised by the Department of Petroleum Technology, Dibrugarh University, Dibrugarh |
| 24th Mar’ 22 | Invited as a resource person to deliver a talk on, “EOR in CO2 Emission Reduction”, at PETROFEST organised by SPE-DU Chapter, in the Department of Petroleum Technology, Dibrugarh University, Dibrugarh. |
| 9th Mar’ 22 | Invited as a resource person to deliver a talk online on, “Enhanced Oil Recovery”, at the ATAL FDP on, "Recent trends in upstream Petroleum Technology", in the Department of Petroleum Technology, Dibrugarh University, Dibrugarh. |
| 9th Feb’ 22 | Invited as a resource person to deliver a talk online on, “Management of Hydrocarbon Exploration and Production through EOR”, at the ATAL FDP on, "Management of Hydrocarbon Exploration and Production", in the Department of Petroleum Technology, Dibrugarh University, Dibrugarh. |
| 11th Jan’ 22 | Invited as a resource person to deliver a talk online on, “Enhanced Oil Recovery: an overview”, at the ATAL FDP on, "Advanced Experimental and Simulation Research Trends in Chemical Engineering (AESRTCE-2022)", in the Department of Chemical Engineering, National Institute of Technology Hamirpur. |
| 17th Nov’21 | Appointed as External PhD Examiner on 17.11.21 at Universiti Teknologi PETRONAS, Malaysia |
| 30th Jun’21 | Appointed as External PhD Examiner on 30.6.21 at Department of Technology, Savitribai Phule Pune University (formerly University of Pune), Ganeshkhind, Pune |
| 18th Feb’ 21 | Invited as an Expert Member (Senate Nominee) for recruitment process for faculty positions (Associate Professors) at IIT-ISM, Dhanbad. |
| 31st Jan’21 | Guest of Honour at SAKSHAM 2021 from 16th Jan’21 to 15th Feb’21 at Indian Oil Corporation (AOD), Digboi |
| 17th Mar’2020 | Invited as an Expert Member (Senate Nominee) for recruitment process for faculty positions (Assistant Professor) at IIT-ISM, Dhanbad |
| 29th Aug’2020 | Resource person in the 7th Workshop session of Women in Science, Technology, Engineering and Mathematics (STEM) organised by Chain Initiative, Kolkata in collaboration with the United States Consulate. |
| July’19 | Experts for All India Council for Technical Education, New Delhi |
| 4th - 9th May’19 | Invited as a member from Academia to OTC 2019 (Offshore Technology Conference) held in Houston's NRG Park |
| 18th Feb’19 | Invited as Chief Guest to First Percy Evans Memorial Lecture at OIL, Duliajan |
| 8th Feb’19 | Invited as Chief Guest to the awareness session on Fuel Conservation (e.g., domestic LPG) for the housewives of BCPL employees at the Admin Building, Brahmaputra Cracker and Polymer Limited (BCPL), Lepetkata as part of Saksham-2019 (Oil & Gas Conservation Month celebration from 16.1.2019 to 15.2.2019) in line with PCRA guidelines under the Ministry of Petroleum and Natural Gas (MoPN&G). |
| 21-22 Jan’19 | The paper entitled, “Depositional Flow nature of surficial sand: A case study of Brahmaputra Floodplain, Evidence for recent climate change”, authored by Pranab Boral, Arunabh Borpatra Gohain and Subrata Borgohain Gogoi. Pranab Boral was awarded the Best Presentation Award (Oral) in the International Multidisciplinary Research Conference on Biodiversity, Climate Change, Physical and Life Sciences (IMRCBCPL) 2019, held in DHSK College during 21-22 Jan’19, organized by International Academy of Science and Research, Kolkata and Confederation of Indian Universities, New Delhi. |
| 12-15 Nov’18 | Springer, part of Springer Nature, expressed its appreciation for the oral communication of the paper no. ID432 entitled, “Analyses and treatment of oil field formation water of Upper Assam Basin (India)”, at the 1st Conference of the Arabian Journal of Geosciences (CAJG), held in Hammamet, Tunisia. |
| 14th Mar’18 | Invited Academician to present on the theme entitled, “Enhanced Oil Recovery- Policy to Implementation”, in the industry-Academia Meet on 14th Mar’18 at Centre of Excellence for Energy Studies (CoEES), OIL, Guwahati to mark the 8th Foundation Day of CoEES. |
| 26-27 Feb’18 | Invited Participant in the International Conference on LPG: Catalyst of Social Change -I under Pradhan Mantri Ujjwala Yojna (PMUY) in Ranchi, India, in the august presence of the Honourable Minister of Petroleum & Natural Gas, Government of India organized by Research and Development Initiative Pvt. Ltd. New Delhi |
| 8-10 Oct’17 | Invited Participant from Academia to attend India Energy Forum by CERAWEEK under the aegis of India Energy Forum held at Taj Diplomatic Enclave, New Delhi from October 8-10, 2017, under the patronage of Hon’ble Minister Shri Dharmendra Pradhan and the Indian Ministry of Petroleum & Natural Gas, Government of India. |
| 9-24th Aug’18; | Visiting Indian Professor / Principal Investigator to School of Engineering, University of Edinburgh in connection with UGC-UKIERI Joint Research Programme (UKIERI-III) project No. F.No. 184-1/2018(IC); under UGC, Government of India |
| 16th May ‘17 | The paper entitled, “Treatment of Formation water of Upper Assam Basin for a Greener Ecosystem” authored by Konwar D, Gogoi SB, Sen R.K. was awarded 1st position in Oil & Gas Workshop organised by Indo-US 21st Century Knowledge Initiative Project in Dibrugarh University, Dibrugarh, Assam, India |
| 16th May ‘17 | The paper entitled, “Formulation of an integrated CPS for EOR in Upper Assam Basin, India” authored by Miranda Kakoty, Subrata Borgohain Gogoi, Fathi Boukadi was awarded 1st position in Oil & Gas Workshop organised by Indo-US 21st Century Knowledge Initiative Project in Dibrugarh University, Dibrugarh, Assam, India |
| 16th May ‘17 | The paper entitled, “Formulation of an integrated CPS for EOR in Upper Assam Basin, India” authored by Jagatheesan K, Sarmah S, Gogoi SB was awarded 2nd position in Oil & Gas Workshop organised by Indo-US 21st Century Knowledge Initiative Project in Dibrugarh University, Dibrugarh, Assam, India |
| 16th May ‘17 | The paper entitled, “A Preliminary EOR Study: Characterization of Oil Reservoirs of Upper Assam Basin, India” authored by Viswanathan J, Barman J, Konwar D, Gogoi SB, Aris J was awarded 3rd position in Oil & Gas Workshop organised by Indo-US 21st Century Knowledge Initiative Project in Dibrugarh University, Dibrugarh, Assam, India |
| 22-24 March’17 | The paper entitled, “Formulation of an Alkali-Surfactant slug for EOR application in Upper Assam Basin”, authored by Miranda Kakoty and Gogoi SB was awarded the 1st Best paper award in Petroleum & Renewable Energy Conclave (PREC-2017) organized by the Department of Petroleum Engineering, DIT, Dehradun in association with Oil India Limited and supported by the knowledge partners of Director General of Hydrocarbon, SPE-DIT University and DEW journal, held at Delhi Institute of Technology and Management University, Dehradun, during 22nd – 24th March, 2017. Miranda Kakoty presented the paper. |
| 22-24 March’17 | The paper entitled, “Formulation of a Novel Enhanced Oil Recovery Slug for The Depleted Naharkatiya Oil Reservoir of Upper Assam Basin, India”, authored by Gogoi SB, Fathi Boukadi, Miranda Kakoty, Joyshree Barman, Shilpi Sarmah a, Debashish Konwar a, Tapan Jyoti Gogoi a, Manash Gogoi, was awarded the 2nd Best paper award in Petroleum & Renewable Energy Conclave (PREC-2017) organized by the Department of Petroleum Engineering, DIT, Dehradun in association with Oil India Limited and supported by the knowledge partners of Director General of Hydrocarbon, SPE-DIT University and DEW journal, held at DIT University, Dehradun, during 22nd – 24th March, 2017. |
| 3rd Oct’16 | Expert to IC-IMPACTS in undergoing a joint external review by NCE (Canada), DST and DBT (India). |
| 19-20 Sept’16 | Invited as a Discussion Leader to present on the topic entitled,Polymer Chase Water for Micellar EOR in Bhogpara oil field of Upper Assam Basin, India, on the SPE Workshop: Foam and Chemical EOR, Hilton Kuala Lumpur, Malaysia, paper no. S302, [https://getit.spe.org](https://getit.spe.org/) |
| 1-2Sept’16 | Invited to participate from Academia in the International Conference on LPG: Catalyst of Social Change -I under Pradhan Mantri Ujjwala Yojna (PMUY) in Bhubaneswar, India, in the august presence of the Honourable Minister of Petroleum & Natural Gas, Government of India organized by Research and Development Initiative Pvt. Ltd. New Delhi |
| 1st July 16 | Faculty Coordinator of PETROTECH Student Chapter at Dibrugarh University (no. 12); Sponsor Section: PETROTECH, New Delhi, India. |
| 22nd Jan’16 | Honoured as a distinguished guest to deliver lectures on the Induction Programme of the Ph.D. scholars at Kaziranga University |
| 3-5th Nov’15 | The following two papers were awarded the Best Poster Presentation (Special Prize) under Students’ Category at the 52nd Annual Convention of IGU on “Near Surface Earth System Sciences” held at National Centre for Antarctic and Ocean Research, Goa.   1. Pankaj Boruah, Miranda Kakoty, Waleed M. Alakhdar andGogoi SB, Evaluation of crude oil for production of different Refinery products. 2. Debashree Dutta, Shilpi Sarmah, Joyshree Barman and Gogoi SB,Quality assessment of Formation Water of the Upper Assam Basin and its effect on tap water dilution for eco-friendly environment. |
| 2-24th Oct’15; 5-26th June’16;  29th Oct’17 to 12th Nov’17 | Visiting Indian Professor / Project Director to Petroleum Engineering Department, University of Louisiana at Lafayette, Louisiana, USA in connection with Indo-US 21st Century Knowledge Initiative Programme 2015 |
| 14.4.15 – 1.4.19 | Faculty Advisor of Society of Petroleum Engineers, Dibrugarh University Student Chapter (no. 6112); Sponsor Section: Duliajan Section; SPE Region: South Asia and the Pacific. The Chapter awarded the *Gold Standard* award for 2016 and 2018. |
| From 22.4.14 | Editor of Journal of Petroleum Engineering and Technology Journal |
| From 28.3.14  to 2.4.14 | Invited Expert to deliver lecture series on Petroleum Exploration, Production and Refining to the Department of Energy, Tezpur University |
| 2013-2014 | Elected as the Member of the Sectional Committee of the Section of Engineering Sciences [101st Session of the Indian Science Congress] |
| 3rd Mar’13 | Second best position by the team comprising of Gogoi SB,Das BM, Sen RK and Mech D in the First International Conference on Developing Unconventional oil and gas Resources at IIT Madras, Mar’, 1-3, 2013 for paper entitled, “A preliminary study on unconventional liquid fuel from north-east India coal’. Presenter: Mech D. |
| 27th Feb’13 | Resource Person, Inspector of Factories, Government of Assam, Director General of Factory Advice Service & Labour Institutes, Digboi. |
| 22-24 July’13 | UGC International travel grant was awarded for attending and presenting a paper entitled, ‘Effluent as Surfactant for Enhanced Oil Recovery’, in the 2nd International Conference on Earth Science & Climate Change from 22-24 July’13, at Embassy Suites Las Vegas, NV, USA, organized by OMICS Publishing Group. |
| 17th Mar’13 | Peer Reviewer of international journals   1. Colloids and Surfaces A: Physicochemical and Engineering Aspects 2. International Journal of Environmental Science and Technology (JEST) 3. Springer Nature 4. Fluid Phase Equilibria, of Elsevier 5. Scientia Iranica, of Elsevier 6. International Journal of Environmental Protection (IJEP), World Academic Publishing 7. International Journal of Oil, Gas and Coal Technology (IJOGCT), InterScience Publishers 8. Asia-Pacific Journal of Chemical Engineering is a [peer-reviewed](https://en.wikipedia.org/wiki/Peer_review) [scientific journal](https://en.wikipedia.org/wiki/Scientific_journal) published by [John Wiley & Sons](https://en.wikipedia.org/wiki/John_Wiley_%26_Sons) on behalf of [Curtin University of Technology](https://en.wikipedia.org/wiki/Curtin_University_of_Technology), Australia. 9. Advances in Water Resources is a [peer-reviewed](https://en.wikipedia.org/wiki/Peer_review) [scientific journal](https://en.wikipedia.org/wiki/Scientific_journal) published by [Elsevier](https://en.wikipedia.org/wiki/John_Wiley_%26_Sons) 10. Journal of Molecular Liquids is a [peer-reviewed](https://en.wikipedia.org/wiki/Peer_review) [scientific journal](https://en.wikipedia.org/wiki/Scientific_journal) published by [Elsevier](https://en.wikipedia.org/wiki/John_Wiley_%26_Sons) 11. International Journal of Environmental Science and Technology |
| 25-27 Ap’12 | DST International travel grant was awarded to attend and present a paper entitled, ‘Enhanced Oil Recovery from Naharkatiya Porous Media by a Locally Available Effluent,’ in the BIT's 3rd Annual World Congress of Well Stimulation and EOR 2012 (WSEOR-2012) at Xi'an, China from 25-27 Ap’12. |
| 3-7 Jan’ 04 | ISCA Best Poster Presenter Award by the Indian Science Congress Association in the Section of Engineering Sciences for the paper entitled, “Petroleum Sector and Socio-Economic side of Assam”, in Chandigarh from 3-7 Jan’04. |

**Major Research Projects (National)**

As Principal Investigator/Chief Coordinator

1. University Grants Commission

UGC– F. No. 37-140/2009 (SR) [Completed]

Total Funding: ₹ 11,48,933/-

Duration: 1.2.10 – 1.2.13

Title: A Comparative Study of Natural Lignosulfonate with its Synthetic Analogues **for Enhanced Oil Recovery (EOR)**

1. DST-SB/S3/CE/057/2013 [Completed]

Total Funding: ₹ 21, 39,114/-

Duration: 10.9.13-10.9.16

Title: Identification of Competent Alkali-Surfactant-Polymer Formulations for Enhanced Oil Recovery of Assam Crude Oil

1. DBT’s Twinning programme for the NE – ENV/2013/222 [Completed]

Total Funding: ₹ 50.05 lakhs

Duration: 16.4.14-15.4.17

Title: Remediation of produced water from NE oil fields by microbial and membrane intervention with modelling of an effluent unit for the recovery of usable water

1. Sponsored by All India Council for Technical Education (AICTE), New Delhi, [Completed]

Ref. No.: File. No.8-130/RIFD/RPS-NER/Policy-1/2018-19 dated 14.3.19

Funding: ₹ 24.7 Lakhs

Duration: 2.5.19 – 30.4.23

Title: Surfactant assisted CO2 EOR Process for the depleting oil fields of Upper Assam Basin.

As Chief Coordinator

1. Sponsored by All India Council for Technical Education (AICTE), New Delhi, [Completed] Special Scheme for North East States (NER)

Ref. No.: File. No. AQIS/NE-REGION/2016-17(Solar) dated 18.3.2020

Funding: ₹ 20 Lakhs

Duration: 2.5.2020 – 31.3.22

Title: Grant in aid for meeting the expenditure for providing alternative power support from solar energy.

1. Sponsored by All India Council for Technical Education (AICTE), New Delhi, [Completed] Special Scheme for North East States (NER)

Ref. No.: File. No. AQIS/NE-REGION/2016-17(Water) dated 18.3.2020

Funding: ₹ 12 Lakhs

Duration: 2.5.2020 – 31.3.22

Title: Grant in aid for meeting the expenditure for solving water problem.

As Coordinator

1. Sponsored by All India Council for Technical Education (AICTE), New Delhi, Modernisation and Removal of Obsolescence MODROB (Aspirational Institutes)

Ref. No.: F.No.9-86/IDC/MOD- ASP/Policy-1/2021-22 dated 10.1.2021

Funding: ₹ 18,06,992/- Lakhs

Duration: 2 years

Title: Development of Reservoir Simulation Laboratory.

As Principal Investigator

1. Sponsored by Core Research Grant of the Science and Engineering Research Board (SERB), File No.: CRG/2022/000078, dated 24.2.23

Co-Principal Investigator: Dr. Akhil Agarwal, Department of Microbiology Central University of Rajasthan, Nh 8, Bandar Sindri, Ajmer, Rajasthan-30581

Funding for Dibrugarh University: ₹ 37,86,000 Lakhs

Duration: 2.3.23 - 31.3.26

Title: Enhanced Oil Recovery of the Depleted Reservoirs of Upper Assam Basin and Rajasthan with simultaneous carbon neutrality for environmental sustainability

As Co-Principal Investigator

1. Sponsored by Core Research Grant of the Science and Engineering Research Board (SERB), File No.: CRG/2021/007167, dated 7.12.21

As Co-Principal Investigator

Principal Investigator: Dr. Akhil Agarwal, Department of Microbiology Central University of Rajasthan, Nh 8, Bandar Sindri, Ajmer, Rajasthan-30581

Funding for Dibrugarh University: ₹ 4.00 Lakhs

Duration: 7.12.21 – 7.12.24

Title: Development of High-Performance Modified Polymers for Enhanced Oil Recovery from Non-Producing Reservoirs.

1. Sponsored by Institute of Biotechnology & Geotechtonic Studies (INBIGS), A&AA Basin, ONGC, Cinnamora, Jorhat, Assam [Ongoing]

As Co-Principal Investigator

Principal Investigator: Dr. Tapas Medhi, Molecular Biology and Biotechnology, Tezpur University

ONGC Funding: ₹ 40.95 Lakhs

Duration: 12.10.18 – 13.10.22

Title: Formulation of an MEOR slug for Enhanced Oil Recovery of Upper Assam Basin

1. Sponsored by National Project Implementation Unit, a unit of Ministry of Human Resource Development, Government of India for implementation of World Bank assisted projects in technical education; Project ID: 1-5716866523 [Completed]

As Co-Principal Investigator

Principal Investigator: Dr. Rituraj Singh, Dibrugarh University Institute of Engineering & Technology

Funding: ₹ 19.87 Lakhs

Duration: 18.07.19 – 1.06.21

Title: Development of polymeric nanocomposite pour point depressants for waxy crude oil in North East India

**Major Research Projects (International)**

As Indian Project Director/ Principal Investigator

1. Indo-US 21st Century Knowledge Initiative Programme India, Project no. F.No. 194-1/2009(IC) dated 20/2/15 [completed]

As Indian Project Director

US Project Director: Dr. Fathi Boukadi, Department of Petroleum Engineering, University of Louisiana at Lafayette, Lafayette, Louisiana, USA

Total Funding: ₹ 1.7 crores

Duration: 18.6.15 – 30.6.19

Title: Foam-assisted CO2 Flooding for the Depleted Reservoirs of Upper Assam Basin and in Candidate Reservoirs in Louisiana

1. India-Tunisia project No. DST/INT/TUNISIA/P-02/2017; under Department of Science & Technology, Government of India, (International Bilateral Cooperation Division) [Completed]

As Indian Principal Investigator

Tunisian Principal Investigator: Professor Monem KALLEL, Department of Geo-Resources and Environment, National Engineering School of Sfax (ENIS), Sfax University, Tunisia.

Indian Funding: ₹ 7,20,000/- by DST, India

Duration: 20.6.17 – 20.3.2020

Title: Characterization of Oil Field Water to Mitigate a Major Environmental Hazard with Recovery of Usable Water

1. UGC-UKIERI Joint Research Programme (UKIERI-III) project No. F.No. 184-1/2018(IC); under UGC, Government of India [completed]

As Indian Principal Investigator

UK Principal Investigator: Professor Xianfeng FAN, School of Engineering, University of Edinburgh

Indian Funding: ₹ 13,29,500/- by UGC, India

Duration: 15.3.18 – 31.3.2021

Title: Novel EOR technique for the depleted oil reservoirs of Upper Assam Basin with simultaneous CO2 Capture and Sequestration

1. DST - IC IMPACTS, Canada project No. DST/INT/CAN/P-02/2019; under Department of Science & Technology, Government of India, (International Bilateral Cooperation Division) [Completed]

As Indian Principal Investigator

Canadian Principal Investigator: Professor Ibrahim Dincer, The University of Ontario, Institute of Technology, Canada

Indian Funding: ₹ 25,18,994/- by DST, India

Duration: 17.11.2020 – 15.4.2023

Title: Carbon neutrality **through combined CO2 capture and novel** H2 technology **with production of non-conventional fuels for smart cities**

**Internship Program Supervision for international students**

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| 16/1/17 – 18/8/17 | Jayakumar Viswanathan, 3rd Year Bachelor of Engineering in Petroleum Engineering, Universiti Teknologi PETRONAS (UTP), Malaysia  Title: Formulation of Chemical surfactant alkali slug for Enhanced Oil Recovery of Moran oilfield of Upper Assam Basin |
| 16/1/17 – 18/8/17 | Kumaresan Jagatheesan, 3rd Year Bachelor of Engineering in Petroleum Engineering, Universiti Teknologi PETRONAS (UTP), Malaysia  Title: Formulation of Polymer slug for Enhanced Oil Recovery of Bhogpara oilfield of Upper Assam Basin |
| 19/2/18 - 27/8/18 | Archana Shangkari Chandran, 3rd Year Bachelor of Engineering in Petroleum Engineering, Universiti Teknologi PETRONAS (UTP), Malaysia  Title: Use of Nano-Particles for Enhanced Oil Recovery |
| 19/2/18 - 27/8/18 | Sathiyaseelan Vanehuiathan, 3rd Year Bachelor of Engineering in Petroleum Engineering, Universiti Teknologi PETRONAS (UTP), Malaysia  Title: Formulation of a stable microemulsion for Enhanced Oil Recovery |

**Internship Program Supervision for Indian students**

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| 25/12/18 – 31/01/19 | Satyam Kumar & Md. Zakaullah, B. Tech (5th semester)  Institute of Technology & Management (ITM) University, Gwalior, India  Title: Comparative Study of Physical and Chemical Parameters of Oil Field Produced Water |
| 25/12/18 – 31/01/19 | Kadari Nikhil & Ashish Sharma, B. Tech (5th semester)  Institute of Technology & Management (ITM) University, Gwalior, India  Title: Characterization of Reservoir Rock and Fluid Properties with subsequent study on Surfactant and Polymer for EOR application |
| 25/12/2018 – 07/02/2019 | Sabyasachi Chatterjee, B. Tech (7th semester)  Institute of Technology & Management (ITM) University, Gwalior, India  Title: Characterization of Reservoir Rock and Fluid Properties with subsequent study on Surfactant and Polymer for EOR application |
| 16/8/17 – 22/9/17 [Part time supervision by me] | Saurav Haloi, PhD, Molecular Biology and Biotechnology, Tezpur University  Title: Development of biosurfactant based technology for MEOR |
| 3/7/17– 14/7/17 [Part time supervision by me] | Dr. Moonjit Das, SERB National Post-Doctoral Fellow, Department of Pharmaceutical Science, Dibrugarh University  Title: Assessment of anti-urolithiatic and anti-diabetic properties of biosurfactant produced by indigenous/native biosurfactant produced strains isolated from different petroleum-hydrocarbon contaminated soil samples of Assam and their metal nanoparticles: An in vitro and in vivo approach |
| 19/6/17 – 28/7/17 | Jithender Singh Rajpurohit, B.Tech. 7th semester, Petroleum Engineering Department of ITM University, Gwalior, Madhya Pradesh  Title: Evaluation of alkali surfactant EOR based on adsorption experiment for three oil fields of Upper Assam |
| 19/6/17 – 28/7/17 | Md. Kausen Parwez, B.Tech. 7th semester, Petroleum Engineering Department of ITM University, Gwalior, Madhya Pradesh  Title: Identification of a surfactant-alkali slug (SA) for EOR in sandstone reservoirs of Upper Assam Basin |
| 19/6/17 – 28/7/17 | Mazhar Imam, B.Tech. 7th semester, Petroleum Engineering Department of ITM University, Gwalior, Madhya Pradesh  Title: Alkali assisted polymer flood |
| 19/6/17 – 7/8/17 | Mohammed Shoib, B.Tech. 7th semester, Petroleum Engineering Department of ITM University, Gwalior, Madhya Pradesh  Title: A study on treatment and laboratory analysis of oil field formation water and brine samples recovered during flooding. |
| 12/5/17 – 2/8/17 | Monalisa Dutta, B.Tech. Chemical Engineering, Heritage Institute of Technology, West Bengal University of Technology  Title: Modelling and simulation of surfactant-polymer assisted CO2 -EOR for the depleted reservoirs of Upper Assam Basin |
| 3/1/15 – 5/8/16 | Tapanjyoti Gogoi, M.Tech. Petroleum Exploration and Production, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam. Internship under Indo-US 21st Century Knowledge Initiative Programme F .No. 194-1/2009 (IC); under UGC, New Delhi, India  Title: Development of a comprehensive model for the treatment of oil field produced water |
| 19/6/17 – 28/7/17 | Shantanu Datta, M.Tech. Petroleum Exploration and Production, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam. Internship under Indo-US 21st Century Knowledge Initiative Programme F .No. 194-1/2009 (IC); under UGC, New Delhi, India  Title: Mixtures of Anionic/Cationic/Non-ionic Surfactants: A New Approach for Enhanced Oil Recovery in Low-Salinity, High-Temperature Sandstone Reservoir of Upper Assam Basin |
| 3/1/15 – till date  (was also JRF of DBT’s Twinning programme for the NE – ENV/2013/222 from 14/7/16 to 7/4/17) | Debasish Konwar, M.Tech. Petroleum Exploration and Production, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam. Internship under Indo-US 21st Century Knowledge Initiative Programme F .No. 194-1/2009 (IC); under UGC, New Delhi, India  Title: Development of an integrated model for the treatment of oilfield produced water |
| 6/7/15 – 10/4/17  (on 10/4/17 she joined as JRF in the project till date) | Joyshree Barman, M.Tech. Petroleum Exploration and Production, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam. Internship under Indo-US 21st Century Knowledge Initiative Programme F .No. 194-1/2009 (IC); under UGC, New Delhi, India  Title: Carbon-dioxide assisted ASP slug for EOR of Upper Assam Basin |
| 1/6/15 – till date | Shilpi Sarmah, M.Tech. Petroleum Exploration and Production, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam. Internship under Indo-US 21st Century Knowledge Initiative Programme F.No. 194-1/2009 (IC); under UGC, New Delhi, India  Title: Chase water assisted microemulsion slug for some depleted reservoirs of Upper Assam Basin. |
| 13/2/17 – till date | Sekhar Gogoi, M.Tech. Petroleum Exploration and Production, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam. Internship under Indo-US 21st Century Knowledge Initiative Programme F.No. 194-1/2009 (IC); under UGC, New Delhi, India  Title: Process modelling and microfluidic analysis of the transparent micromodels that will reduce the technical uncertainty and risk associated with the formulated micellar for effective implementation of micellar-EOR under depleted reservoir conditions. |

**M. Tech Supervision**

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| 1. | 2022/8-2023/7 Principal Supervisor | Ripon Jyoti Gogoi, Dibrugarh University, Student Degree Awarded: 2023/7  Title: Study of Alkaline Surfactant Polymer (ASP) flooding for Enhanced Oil Recovery using microfluidics and simulation |
| 2. | 2022/8-2023/7 Principal Supervisor | Raktotpal Gogoi, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2023/7  Title: Characterization and Screening of Crude Oil of Upper Assam Basin for Enhanced Oil Recovery |
| 3. | 2022/8-2023/7 Principal Supervisor | Raj Baruah, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2023/7  Title: Chemical Enhanced Oil Recovery (CEOR): Experimental analysis of Absorption, Adsorption and Microemulsion |
| 4. | 2020/8-2022/7 Principal Supervisor | Akashdeep Hazarika, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2022/7  Title: Design of Pipeline flow for crude oil of  Upper Assam Basin using Ansys |
| 5. | 2020/8-2022/7 Principal Supervisor | Ankurjyoti Dutta, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2022/7  Title: Enhanced oil recovery using Surfactant Alkali flooding for Upper Assam Basin |
| 6. | 2020/8-2022/7 Principal Supervisor | Anshuman Chetia, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2022/7  Title: Rock Property Analysis for Application of Surfactant Enhanced Oil Recovery |
| 7. | 2019/8-2021/7 Principal Supervisor | Aparajita Baruah, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2021/7  Title: CFD Modelling and Simulation of crude oil flowing through porous media |
| 8. | 2019/8-2021/7 Principal Supervisor | Sasangkajeet Konwar, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2021/7 Title: CFD Analysis of Crude Oil flow in a Horizontal Pipeline |
| 9. | 2018/8-2020/7 Principal Supervisor | Joyesh Nag, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2020/7  Title: Process design and analysis of an end-to-end solution to water cut problem in the Oil Industry |
| 10. | 2018/8-2020/7 Principal Supervisor | Dhrubajyoti Bora, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2020/7  Title: A study on paraffin deposition problems and remedial measures with special reference to Geleki oil field in Assam |
| 11. | 2018/8-2020/7 Principal Supervisor | Madhurjya Phukan, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2020/7  Title: Rheological characterization and CFD simulation on transportation of crude oil and its derivatives in a horizontal pipeline |
| 12. | 2017/8-2019/7 Principal Supervisor | Syeda Ruhie Nikhar, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2019/7  Title: Water shut off jobs for the revival of a well in Rudrasagar oilfield with special reference to Polymer Slug design |
| 13. | 2017/8-2019/7 Principal Supervisor | Dutta, Monalisa, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2019/7  Title: A study on water injection analysis in Geleki oil field |
| 14. | 2016/8-2018/7 Principal Supervisor | Baruah, Annanya A, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2018/7  Title: Field Development project of a synthetic hypothetical field using Tempest enable software |
| 15. | 2016/8-2018/7 Principal Supervisor | Machahary, Bwhwithi, Master’s Dissertation, Dibrugarh University, Student Degree Awarded: 2018/7 |
|  |  | Title: Production enhancement through stimulation in rigless job in Geleki oil field |
| 16. | 2016/8-2018/7  Principal Supervisor | Rohman, Muzammil, Master's Dissertation, Dibrugarh University, Student Degree Awarded: 2018/7  Title: Field Development project of a synthetic hypothetical field using Tempest enable software |
| 17. | 2016/8-2018/7  Principal Supervisor | Dauka, Nimashri, Master's Dissertation, Dibrugarh University, Student Degree Awarded: 2018/7  Title: Production enhancement through stimulation in rigless job in Lakhmani oil field |
| 18. | 2015/8 - 2017/6  Principal Supervisor | Kumari, Priyanka, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2017/6  Title: Characterization of reservoir fluids with special emphasis on produced water treatment |
| 19. | 2015/8 - 2017/6  Principal Supervisor | Sahu, Aditya, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2017/6  Title: Design and sizing of pipeline in oil and gas industry |
| 20. | 2014/8 - 2016/8  Principal Supervisor | Konwar, Debasish, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2016/11  Title: Analysis of wax control measures of Geleky oil field |
| 21. | 2014/8 - 2016/8  Principal Supervisor | Sarmah, Shilpi, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2016/11  Title: Water injection feasibility in the TS-4 sands of Charali field |
| 22. | 2014/8 - 2016/8  Principal Supervisor | Pawe, Bhaskar, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2016/11  Title: Study of Natural Gas of Upper Assam Basin with respect to Urea production |
| 23. | 2014/8 - 2016/8  Principal Supervisor | Chetia, Dimpy, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2016/11  Title: Well Stimulation Techniques with special reference to matrix acidization to enhance objectivity / productivity in Galeki oil field |
| 24. | 2014/8 - 2016/8  Principal Supervisor | Boruah, Pankaj Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2016/11  Title: Installation and Optimization of sucker rod pump |
| 25. | 2013/8 - 2015/8  Principal Supervisor | Kakoty, Miranda, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2015/11  Title: Porosity Permeability Transform |
| 26. | 2013/8 - 2015/8  Principal Supervisor | Ahmed, Naznin, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2015/11  Title: Foam-Assisted CO2 Flooding for the Depleted Reservoirs of Upper Assam Basin |
| 27. | 2013/8 - 2015/8  Principal Supervisor | Hazarika, Bidyut Bikash, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2015/11  Title: A Critical Analysis of Crude Oil Processing Techniques and its affect in Crude Oil Quality |
| 28. | 2013/8 - 2015/8  Principal Supervisor | Gogoi, Ajoy Kumar, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2015/11  Title: Rotary Steerable System and its application in Oil Well Drilling |
| 29. | 2012/8 - 2014/8  Principal Supervisor | Borah, Mrinmoy Jyoti, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2014/11  Title: Study of Drill Bits and their selection criteria in Upper Assam Oil fields |
| 30. | 2012/8 - 2014/8  Principal Supervisor | Dutta, Riku, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2014/11  Title: Optimization of Gas Lift system |
| 31. | 2012/8 - 2014/8  Principal Supervisor | Sandilya, Diganta Pratim, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2014/11  Title: Hydrate inhibition by injecting methanol in production tubing |
| 32. | 2011/8 - 2013/8  Principal Supervisor | Gohain, Manas Protim, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2013/11  Title: Rig Hydraulics Optimization |
| 33. | 2011/8 - 2013/8  Principal Supervisor | Lahkar, Neelamjyoti, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2013/11  Title: A Study Techno-Economic Consideration of Fishing Tools and Methods Used |
| 34. | 2011/8 - 2013/8  Principal Supervisor | Phukan, Sunlee, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2013/11  Title: Optimization of Drilling Process Based on ROP Model Using Multiple Regressions |
| 35. | 2010/8 - 2012/8  Principal Supervisor | Akhtar, Aanisha, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2012/11  Title: Drilling Fluids System of Horizontal Wells in Assam Asset |
| 36. | 2010/8 - 2012/8  Principal Supervisor | Mech, Deepjyoti, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2012/11  Title: Study on Effluent Treatment Plants in ONGC, Assam Asset, Nazira |
| 37. | 2009/8 - 2011/8  Principal Supervisor | Roy, Rajarshee, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2011/11  Title: A Study on Microbial Enhanced Oil Recovery in Lakwa Field Using Bio surfactants |
| 38. | 2009/8 - 2011/8  Principal Supervisor | Kalita, Simanta, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2011/11  Title: Drilling Mud System of Geleki Oil Field – A Case Study |
| 39. | 2007/8 - 2009/8  Principal Supervisor | Talukdar, Pulin, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2009/11  Title: Velocity String A Means of Flow Assistance |
| 40. | 2006/8 - 2008/8  Principal Supervisor | Mech, Borkha, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2008/11  Title: Sand Control Techniques with Special Emphasis on Sand Control Through Gravel Pack in A Cased Hole Well |
| 41. | 2006/8 - 2008/8  Principal Supervisor | Laskar, Dilwar Hussain, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2008/11  Title: Flow Assurance of High Pour Point Crude: A Case Study on Greater Shalmari Oil Field of Oil India Limited, Duliajan |
| 42. | 2006/8 - 2008/8  Principal Supervisor | Baishya, Parag Jyoti, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2008/11  Title: A Study of Well Cementation Techniques with Special Reference to Primary Cementation Job Design |
| 43. | 2006/8 - 2008/8  Principal Supervisor | Medhi, Nirupam, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2008/11  Title: Study of Different Types Drilling Bits And Bit Performance Analysis |
| 44. | 2005/8 - 2007/8  Principal Supervisor | Hazarika, Minakshi, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2007/11  Title: A Study of Electrical Submersible Pump -Its Application,Design,Operation and Monitoring |
| 45. | 2005/8 - 2007/8  Principal Supervisor | Saikia, Manabjyoti, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2007/11  Title: To Increase the Production of LPG with the Decreasing Amount of Butane Present In Natural Gas |
| 46. | 2004/8 - 2006/8  Principal Supervisor | Rao, K. Bhaskara, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2006/11  Title: A Study on Biodiesel Production from Vegetable Oils and Animal Fats and its Characteristics |
| 47. | 2002/8 - 2004/8  Principal Supervisor | Kalita, Bijoy, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2004/11  Title: A Study on Refinery Waste Water Treatment and Chemistry involved in it, with reference to Numaligarh Refinery |
| 48. | 2002/8 - 2004/8  Principal Supervisor | Bora, Durlov, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 2004/11  Title: Gas to Liquid Technology |
| 49. | 1997/8 - 1999/8  Principal Supervisor | Mukhupadhyaya, Arpita, Master's Dissertation, Dibrugarh University  Student Degree Awarded: 1999/11  Title: A study on production of LPG In India with special reference to Oil India Limited, Duliajan |

**Ph.D. Awarded under my supervision**

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|  | 27.10.16 – 4.4.2023  Principal Supervisor | Robidas, Bondita, Ph.D Thesis, Dibrugarh University  Student Degree: Awarded on 3.4.2023 (Memo no.: DU/RG/Ph,D/03/2023/5800)  Title: A study on flow behaviour of mixed crude oil of Assam through pipeline. |
|  | 11.9.17 – 1.6.2022  Principal Supervisor | Gogoi, Tapan Jyoti, Ph.D Thesis, Dibrugarh University  Student Degree: Awarded on 1.6.2022 (Memo no.: DU/RG/Ph,D/05/2022/5096)  Title: Development of a comprehensive model for treatment of oil field produced water from some Barail reservoirs of Upper Assam Basin. |
|  | 14.4.17- 1.12.2020  Principal Supervisor | Rajbongshi, Amarjit, Ph.D Thesis, Dibrugarh University  Student Degree: Awarded on 1.12.2020 (Memo no.: DU/RG/Ph,D/11/2020/4118)  Title: Characterization and bioremediation of oil field produced water of Moran oil field of Assam |
|  | 28.7.12- 6.5.2020  Supervisor with Dr.Pankaj Tiwari (Associate Prof., Chemical Engineering Dept., IIT-Guwahati) | Phukan, Ranjan, Ph.D Thesis, IIT-Guwahati  Student Degree: Awarded on 6.5.2020.  Title: Enhanced Oil Recovery by Alkaline-Surfactant-Alternated-CO2 Flooding for the Reservoirs of Upper Assam Basin |
|  | 1.2.16- 1.7.19  Principal Supervisor | Hazarika, Kalpajit, Ph.D. Thesis, Dibrugarh University  Student Degree: Awarded on 1.7.19. (Memo no.: DU/RG/Ph,D/06/19/3343)  Title: Studies on implementation of EOR technique through Alkali Surfactant Polymer flooding with special reference to depleted Barial reservoir of Nahorkatiya |
|  | 23.9.11-9.3.17  Supervisor with  Prof. Pradip Borgohain Dept. of Petroleum Technology,  Dibrugarh University | Neog, Dhrubajyoti, Ph.D Thesis, Dibrugarh University  Student Degree: Awarded on 9.3.17. (334th Meeting of the Executive Councilheld on 9 March, 2017)  Title: Studies on Various Techniques of Water Shut off job for Improving oil production in some oil fields of Upper Assam Basin |
|  | 3.12.12 -24.10.16  Principal Supervisor | Talukdar, Prasenjit, Ph.D Thesis, Dibrugarh University  Student Degree Awarded: 24.10.16. (332nd Meeting of the Council held on 24 October 2016)  Title: Design of a Non-Damaging Drilling Fluid with special reference to some oil fields of Upper Assam basin |
|  | 11.1.10 – 9.3.15  Principal Supervisor | Das, Borkha Mech, Ph.D Thesis, Dibrugarh University  Student Degree Awarded: 9.3.15. (325nd Meeting of the Council held on 9 March 2015)  Title: A Study on Micellar/Alkaline/Polymer (MAP) Processes, with Special Reference to Natural Porous Media of some oil fields of Upper Assam Basin |
| **Ph.D. in Progress under my supervision** | | |
|  | 6.9.17  Principal Supervisor | Sarmah, Shilpi, Ph.D Thesis, Dibrugarh University  (*Submitted on 16.9.22*)  Title: Chase water assisted micro-emulsion slug for some depleted reservoirs of Upper Assam Basin |
|  | 6.9.17  Principal Supervisor | Konwar, Debasish, Ph.D Thesis, Dibrugarh University  (*Submitted on 31.8.22*)  Title: Development of a novel technology for treatment of oil field produced water from a few oil fields of Upper Assam Basin. |
|  | 23.10.17  Principal Supervisor | Kakoty, Miranda, Ph.D Thesis, Dibrugarh University  Student Degree in progress  Title: Nanoparticle Stabilized alkali-surfactant-foam assisted CO2 flooding for some depleted oil fields of Upper Assam Basin |
|  | 20.6.18  Principal Supervisor | Sekhar Gogoi, Ph.D Thesis, Dibrugarh University  Student Degree in progress  Title: Chemical Enhanced Oil Recovery through Microfluidics |
|  | 27.10.2020  Principal Supervisor | Pranab Boral, Ph.D Thesis, Dibrugarh University  Student Degree in progress  Title: ASP-EOR Modelling for application in sandstone oil reservoirs with special emphasis to Upper Assam Basin |
|  | 7.9.21  Principal Supervisor | Aditya Sahu, Ph.D Thesis, Dibrugarh University  Student Degree in progress  Title: Designing of an eco-friendly cost-effective polymer composite for Enhanced Oil Recovery application  Vide notification: Ref.No: DU/JR-A/FB-8/FESE/06-21/993 |

**Event Administration**

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| 22.01.16 | Guest of Honour in the Ph.D Induction Programme in Kaziranga University, Assam. |
| 13.12.14-14.12.14 | Co-Chair, Technical Programme Committee on a Workshop on: Classroom to Field: Chasing the Reality organized by Society of Petroleum Engineers, Northeast India Section, at Nazira, Assam. |
| 5.12.14 | Speaker, National Consultation on Mining (Oil, Gas and National Resources) in North-East India and its Economic and Environmental Impacts with special focus on Gender Inclusive Sustainable, Govt. of India, New Delhi. |
| 6.06.14 | Speaker, Orientation Program, The Directorate General of Hydrocarbons (DGH), OIDB Bhawan. |

**Events Organized as Co-Ordinator**

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| 5th & 6th May, 2022 | Conference on Water Management: with special emphasis on Risk Assessment under, "Assistance to Professional Bodies &Seminar/Symposia Scheme", File Number: SSY/2022/000025 dated 24th Feb’22 byScience and Engineering Research Board, New Delhi, will be organized in the Department of Petroleum Technology on 5th to 6th May, 2022,  Total Fund = ₹ 1,50,000/-  Convenor: Dr. (Mrs.) Subrata Borgohain Gogoi Coordinator: Dr. Borkha Mech |
| 18th & 23rd April, 2022 | Short Term Training Programme (STTP) in NER under AQIS 2021-22, Ref. No. 34-70/2/FDC/STTP-NER/Policy-1/2021-22, dated- 22nd December, 2021, Funding agency: AICTE, New Delhi, to be organized in the Department of Petroleum Technology on 18th to 23rd April, 2022  Total Fund = ₹ 3,00,000/-  Coordinator: Dr. (Mrs.) Subrata Borgohain Gogoi Co-Coordinator: Dr. Ranjan Phukan |
| 7th & 8th February, 2022 | An international Conference on Water Management. Grant for Organizing Conference (GOC) with AQIS ID: 7-10255707303 and GOC no. F. No.67- 75 /rDC/GOCIPOLICY-3 /202I-2, dated- 28th December, 2021, Funding agency: AICTE, New Delhi was organized in the Department of Petroleum Technology on 7th to 8th February, 2022  Total Fund = ₹ 50,000/-  Coordinator: Dr. (Mrs.) Subrata Borgohain Gogoi Co-Coordinator: Dr. Ranian Phukan |
| 27th July 2020 – 1st Aug’2020 | International webinar in Social Cost benefit analysis of projects in the Department of Commerce, Dibrugarh University in collaboration with the University of Edinburg, UK from 27th July 2020 – 1st Aug’2020 |
| 7th -8th April’19 | International Seminar cum Workshop on Oil & Gas under the aegis of UGC- UK India Education and Research Initiative Programme & Indo-US 21st Century Knowledge Initiative Programme organised jointly by Dibrugarh University, The University of Edinburgh, UK and The University of Louisiana at Lafayette, Louisiana, USA on 7th – 8th April, 2019 at Indira Miri Conference Hall of Dibrugarh University |
| 30th Oct’18 | Workshop on Petrel, Eclipse and Petromod software, sponsored by Schlumberger Asia Services Limited and UGC-UKIERI Joint Research Programme (UKIERI-III) project No. F.No. 184-1/2018(IC); under UGC, Government of India at the Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam, India. |
| 16th May’17 | UGC sponsored Oil & Gas Workshop under Indo-US 21st Century Knowledge Initiative Project, at Indira Miri Conference Hall of Dibrugarh University, Dibrugarh, Assam, India. |

**Specialized Training**

1. Trained in the Experts training programme by the Council at AICTE Hqrs New Delhi on 27th February 2020.
2. Trained at the Pre-Bid Workshop in Lucknow on Tuesday, 19/9/17, held in CSIR-Indian Institute of Toxicology Research, Lucknow, organized by UK India Education and Research Initiative (UKIERI), British Council, New Delhi.
3. Trained at the Industry-Academia Workshop, “Recent Trends in Oil and Gas Production Technology”, by ONGC, Sivasagar, Assam, from 04/02/2013 to 08/02/2013.
4. Trained at a UGC sponsored workshop on, “Fundamental aspects of ERDAS (Earth Resources Data Analysis System) based image processing and elements of GIS (Geographic Information System)”, organized by the Department of Applied Geology, Dibrugarh University from 23/03/2010 to 25/03/2010.
5. Course at B.O.P. PRODUCTS, LLC, Houston, Texas 77260, USA from (20-23th Jun’08) in connection with repairing, maintenance and testing of blowout preventers, choke manifolds & other well control equipment.
6. Have undergone training at Oil India Limited Duliajan; Oil and Natural Gas Corporation, Sibsagar; Bongaigaon Refinery & Petrochemicals Limited; Guwahati Refinery (Indian Oil Corporation Limited), Noonmati; Digboi Refinery (Assam Oil Division, Indian Oil Corporation) and Indian Institute of Petroleum, Dehradun.
7. Refresher Course in Modern Aspects of Chemical Sciences organized by Academic Staff College at Jadavpur University, Kolkata, West Bengal, India from 02/01/2007 to 22/01/2007.
8. Refresher Course in Environmental Education (Multidisciplinary) at Academic Staff College, Gauhati University, Guwahati, Assam, India from 07/03/2005 to 27/03/2005.
9. Refresher Course in Chemical Sciences at Swami Ramanand Teerth Marathawada University, Vishnupuri, Nanded, Maharastra, India from 19/11/2001 to 16/12/2001.
10. Orientation Program at Academic Staff College, Gauhati University, Guwahati, Assam, India from 20/04/2001 to 17/05/2001.

**Committee Memberships**

1. Member of American Chemical Society, 1155 Sixteenth Street, NW, Washington, DC 20036, Washington, DC 20036, USA, with membership number: 31012224. w.e.f. 20.2.10.
2. Convener of the PETROTECH STUDENT CHAPTER of Dibrugarh University w.e.f. 22.4.16.
3. Member of the European Association of Geoscientists & Engineers Membership no:  M2016-0043, w.e.f. 09/01/16.
4. Executive member of the Indian Geophysical Union (IGU) by the General body held on 10th March’14 at NGRI, Hyderabad for a period of two years from 01/04/14 to 01/04/16.
5. SPE Professional Membership [SPE member number is4159078] since 25th January 2014. Renewed on 17.11.18.
6. Member of the Advisory Committee, Office of the International Affairs, Dibrugarh University, w.e.f. September 2014.
7. Chairperson, Board of Studies of the Department of Petroleum Technology with effect from 27/05/13 to 12/01/15 vide Order No.: DU/Estt-A/165(A)/3154 dated 21/05/2013 of Dibrugarh University.
8. Life Fellow of Indian Academy of Social Sciences [LF / 2094 / 370 / 2010].
9. Life Member of Indian Geological Congress [LM- 689, dated 24/10/2009].
10. Elected Member of Indian Institute of Chemical Engineers since 4th January 2007.
11. Life Member of Indian Institute of Chemical Engineers [LM-32009, dated 04/01/2007]. [Membership/Reference no:100106088]
12. Life member of Society for Environmental Protection, Education & Research (SEPER) [dated 10/04/2005].

**Publications**

**Journal Research Papers (Scopus CI in Blue = 686 & Google CI in pink =402)**

**27**, 41

1. Hazarika K, **Gogoi SB**, Adsorption of surfactant during chemical enhanced oil recovery, J. Surfactants and Detergents, 26(4), 593-603, 2022. <https://doi.org/10.1002/jsde.12649> **0, 0**
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**Presentations and Publications**

**Technical Volumes and Conference/Seminar Proceedings**

1. Debasish Konwar, **Subrata Borgohain Gogoi,** Tapan Jyoti Gogoi, Development of a simulation model for the treatment of Oil Field Produced Water of Upper Assam Basin, presented (oral) at the International Conference on Water Management (ICWM) during 7-8 February, 22 under the aegis of All India Council for Technical Education (AICTE) organized by Department of Petroleum technology, Dibrugarh University, Assam, India.
2. Tapan Jyoti Gogoi, **Subrata Borgohain Gogoi,** Debasish Konwar, Characterization and Correlation of untreated OFPW of Upper Assam Basin, presented (oral) at the International Conference on Water Management (ICWM) during 7-8 February, 22 under the aegis of All India Council for Technical Education (AICTE) organized by Department of Petroleum technology, Dibrugarh University, Assam, India.
3. S. Sarmah, **Subrata Borgohain Gogoi,** Experimental study of low saline smart water and polymer hybrid for EOR in a sandstone reservoir, presented (oral) at the International Conference on Water Management (ICWM) during 7-8 February, 22 under the aegis of All India Council for Technical Education (AICTE) organized by Department of Petroleum technology, Dibrugarh University, Assam, India.
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1. **Gogoi SB,** Petroleum Technology – Enhanced Oil Recovery Techniques, pub. Oxford & IBH, New Delhi, 2014. ISBN: 978-81-204-1778-6.

**Book Edited**

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**Gene sequences deposited in NCBI GenBankdatabase:**

Gene sequence deposited in NCBI (USA) Gen Bank data base:  Banklt1953891 KX859177, 12-Feb-2017

<https://www.ncbi.nlm.nih.gov/nuccore/KX859177.1?report=gbwithparts&log$=seqview>

**Consultancy Services since 2013 to present**

1. Solid Waste Management (SWM) Plant, Dibrugarh, Assam, India: Characterisation of compost samples.
2. Assam Petroleum Limited (APL), Duliajan, Assam, India: Characterisation of acid sample.
3. IOCL(AOD)-Digboi Refinery, Digboi: Determination of Hydrocarbon & water content, residue percentage, alkalinity and pH.
4. Assam Petroleum Ltd., Duliajan: Concentration of acid sample.
5. Oil India Limited, Duliajan and Moran: Determination of reservoir rock properties
6. National Hydroelectric Power Corporation, Lower Subansiri, Arunachal Pradesh: Determination of absolute and effective porosities of various rock samples
7. North East Electrical Power Corporation, Dikrong, Arunachal Pradesh: Determination of absolute and effective porosities of various rock samples
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9. Silk Mark Organization of India, Central Silk Board, Guwahati: Determination of surface tension of various natural Indigo solutions
10. PhD work of Mamata B. Sarma under Guwahati University: Determination of surface tension of natural agents for degumming of muga silk fabric.
11. Brahmaputra Cracker and Polymer Limited (BCPL), Lapetkatta, Dibrugarh: Characterization of effluents

**Declaration**

I hereby, declare that all the above-mentioned facts and information are true to the best of my knowledge. I will be solely responsible for any discrepancy found in them.

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| Dated: 14.8.23 | **(SUBRATA BORGOHAIN GOGOI)** |