

3.7.2: Functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year 2022-23

Organisation with which MoU is signed	Name of the institution/ industry	Year of signing MoU	Duration	List the actual activities under each MoU	Number of students/teachers participated under MoUs
Wildlife Trust of India	Wildlife Trust of India	2022	Lifetime	Promotion of conservation and welfare of wildlife and matters incidental thereto Provision of education for equity and empowerment of people of all castes, creed and religion in Assam	-
Indian Institute of Entrepreneurship	Indian Institute of Entrepreneurship	2023	Lifetime	Implementation of ASPIRE Livelihood Business Incubator (LBI)	-
Insitut of Inland Fisheries Potsdam-Sacrow, Germany	Insitut of Inland Fisheries Potsdam-Sacrow, Germany	2022	Lifetime	Improvement in productivity of indigenous and commercial aquatic species, including scaling up and sustainable increase in income of fishing communities Improving knowledge on aquatic resources Assessment of threats to different ecosystems Methods to improve adaptability of aquatic biodiversity to climate change and other stressors	-

**MEMORANDUM OF UNDERSTANDING FOR IMPLEMENTING VARIOUS
WILDLIFE CONSERVATION ACTIVITIES IN ASSAM**

This Memorandum of Understanding (MoU) is entered into this ^{12th} day of
July 2022

BETWEEN

The Gauhati University, Gopinath Bardoloi Nagar, Jalukbari, P.O. Gauhati University – 781014, hereafter referred to as the “FIRST PARTY” (which term and expression shall unless repugnant to the context mean and include its successors, administrators, executors, legal representatives and assigns) on the ONE PART.

AND

The WILDLIFE TRUST OF INDIA, B-176, First Floor, East of Kailash, New Delhi-110065, hereafter referred to as the “SECOND PARTY” (which term and expression shall unless repugnant to the context mean and include its successors, administrators, executors, legal representatives and assigns) on the OTHER PART.

WHEREAS THE FIRST PARTY is the State government academic institution established under the Gauhati University Act, 1947 engaged in providing higher education for equity and empowerment of people of all castes, creed and religion in Assam, hereafter referred to as and matters incidental for related thereto.

AND WHEREAS the SECOND PARTY is a charitable trust registered under the Income Tax Act 1961 under Section 12 (a) and is engaged in the promotion of conservation and welfare of wildlife and matters incidental thereto.

AND WHEREAS the mandate of the FIRST PARTY is to provide higher education through designed curriculum with practical experiences with broadly in academic purpose and the SECOND PARTY is mostly engaged in the wildlife conservation actions. Both the parties are desirous of working together for the betterment of knowledge generation and conservation of wild flora and fauna in Assam through the following activities:

Both parties agree to provide opportunities to researchers (personnel) of each others organisations to



Signature of Wildlife Trust of India
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Signature of Gauhati University

পঞ্জীয়ক
গুৱাহাটী বিশ্ববিদ্যালয়, গুৱাহাটী - ১৪
Registrar
Gauhati University, Guwahati-14



This Memorandum of Agreement (MoA) is entered at Guwahati on this day 21st of June 2023 and between: **असम ASSAM** B 809555

Indian Institute of Entrepreneurship, Guwahati (herein referred to as IIE, Guwahati, an autonomous institution under the Ministry of Skill Development & Entrepreneurship, Government of India having its campus at Lalmati, Near Game Village, Guwahati- 781029, Assam, which expression shall, unless repugnant to the context or meaning thereof, shall include its successors and assigns of the MENTOR INSTITUTE (MI) or FIRST PART;


AND

Gauhati University, Guwahati (Assam) an institution/ university/organisation under the Government of Assam having its office at Gopinath Bordoloi Nagar, Jalukbari, Guwahati. The Gauhati University which expression shall, unless it be repugnant to the context or meaning thereof, shall include its successors and assigns of the HOST INSTITUTE (HI) or SECOND PART;

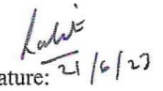
IIE, Guwahati and Gauhati University, Guwahati are hereinafter individually referred to as "Party" and collectively as "Parties".

WHEREAS:

- A. IIE, Guwahati has been set up with a vision of providing quality professional development programmes, research and information service in the field of entrepreneurship promotion/ motivation and development and management of micro small and medium enterprises. Its main objective is to create a conducive environment for entrepreneurial activities through organising different type of training programmes, research and other activities aimed at capacity building and enterprise creation with focus on North Eastern Region (NER).
- B. Gauhati University, Guwahati has been developed by the Government of Assam


Signature: Dr. H. K. Nath
Designation: Registrar, GU
Name of the HI: Gauhati University
Address: Jalukbari, Guwahati-14

পঞ্জীয়ক
গুৱাহাটী বিশ্ববিদ্যালয়, গুৱাহাটী-১৪
Registrar
Gauhati University, Guwahati-14


Signature: 21/6/23
Designation: Director
Indian Institute of Entrepreneurship, Guwahati
Lalmati, Guwahati-29

নিदेशक / Director
इंडियन इंस्टीट्यूट ऑफ एंटरप्राइज
Indian Institute of Entrepreneurship
गुवाहाटी / Guwahati-29



Memorandum of Understanding (MoU)

between

**Gauhati University
Jalukbari, Gopinath Bordoloi Nagar,
Guwahati-14, Assam, India**

-hereinafter referred to as "Gauhati University"

AND

**"Institut of Inland Fisheries Potsdam-Sacrow,
Germany**

-hereinafter referred to as "IFB"

Page 1 of 7



MEMORANDUM OF UNDERSTANDING

1. PREAMBLE

This Memorandum of Understanding (MoU) is entered into on the 19th day of December (month), 2022.

BETWEEN

The Aquaculture & Biodiversity Centre Department of Zoology, Gauhati University, Guwahati, Assam (Here in after called 'Gauhati University')

AND

Institute of Inland Fisheries, Potsdam (hereinafter called 'IFB' which expression)

2. SCOPE OF THE AGREEMENT AND MODALITIES OF THE CONTRACT

Gauhati University and IFB have established this general agreement to foster inter-institutional cooperation in research activities in the field of fish ecology, inland fisheries and aquaculture involving sharing of technical expertise, knowledge management, applied research, collaborative studies, and capacity development.

2.1. THE GOAL

Gauhati University and IFB will collaborate for research and different extension activities aiming at protection and sustainable, climate-resilient management of fish resources of the NE Region that are suited for the fishermen communities of Assam and NE India.

The two institutions have expressed their intent to **jointly support, develop, and demonstrate** scalable models, mechanisms, technologies, practices, and knowledge management systems that

- 3.1.1 Can lead to a noteworthy improvement in productivity of indigenous and commercial aquatic species, have the potential to be scaled up and may thereby result in a sustainable increase in incomes of the fishing communities, and
- 3.1.2 Leads to improved knowledge base on the aquatic resources of the region, its validation from the competent authority, assessing the threats to the different aquatic species, publishing & sharing the acquired knowledge jointly through appropriate forums, etc.
- 3.1.3 Improve the adaptability of aquatic biodiversity to climate change and other stressors.

2.2. THE AREAS OF COOPERATION

These may include one or more of the following themes and research areas:

3.2.1. Fishery Ecology:

- 1. Improve knowledge on ecological niche and life history traits of selected endemic fish species.
- 2. Develop methods for and exemplify vulnerability assessment for freshwater fish species of northeast India.

Page 2 of 7



Curricula and Faculty/student /faculty exchange program

- 1. Extending existing curricula at Gauhati University by adding modules in aquaculture and sustainable fishery management.
- 2. Guest lecture of IFB in curricula at Gauhati University.
- 3. Support of faculty & student exchange

8. AMENDMENTS OF THE AGREEMENT

- 8.1. No amendments or modification of this agreement shall be valid unless the same is made in writing by both the parties through their authorised representatives and specifically stating the same to be an amendment of this agreement.
- 8.2. The modifications/changes shall be effective from the date of signature unless otherwise agreed to by the parties.

11. ASSIGNMENT OF THE AGREEMENT

The right and /or liabilities arising to any party out of this agreement shall not be assigned except with the written consent of the other party and subject to such terms and conditions as may be mutually agreed upon.

12. ARBITRATION

- 12.1 The parties will make all efforts to fulfill the purposes set out within this Agreement.
- 12.2 This Agreement is a good will arrangement which reflects the current understanding of each of the parties and does not create a legally binding obligation under international law or under the parties' applicable domestic law.
- 12.3 Any conflict arising out of the interpretation or implementation of this overarching framework collaboration agreement will be settled amicably by the parties through consultation and will not be referred to any court or tribunal.

Page 6 of 7



SEAL OF THE PARTIES

In witness whereof the parties hereto have signed this agreement on 19/12/2022 mentioned herein:

WITNESS

Name and Designation

1..Prof. Jogen Chandra Kalita, Head,
Head, Department of Zoology, GU

2.Prof. Dandadhar Sarma, Coordinator,
Aquaculture & Biodiversity Centre

For the Department of Zoology, Gauhati University,
Guwahati, Assam

Dr Uwe Braemick, IFB Potsdam

WITNESS

- 1.
- 2.

Signature with seal and date
19/12/22
Signature with seal and date
19/12/22
Prof. Jogen Chandra Kalita
Professor & Head
Department of Zoology
Gauhati University
Guwahati-781014, Assam
19/12/22
Dr. Dandadhar Sarma
Professor
Department of Zoology
Gauhati University
Guwahati-781014

Page 7 of 7



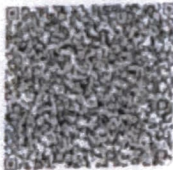
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Government of Assam

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 Certificate No. : IN-AS27085839210828U
 Certificate Issued Date : 30-Sep-2022 01:38 PM
 Account Reference : CSCACC (GV)/ abcscceg07/ AS-KMRAB0161/ AS-KM
 Unique Doc Reference : SUBIN-ASASCSCSEG0749400545522984U
 Purchased by : OIL INDIA LIMITED
 Description of Document : Article 5 Agreement or Memorandum of an agreement
 Property Description : MoU BETWEEN OIL INDIA LIMITED AND GAUHATI UNIVERSITY
 Consideration Price (Rs.) : 100
 (One Hundred only)
 First Party : OIL INDIA LIMITED
 Second Party : GAUHATI UNIVERSITY
 Stamp Duty Paid By : OIL INDIA LIMITED
 Stamp Duty Amount(Rs.) : 100
 (One Hundred only)



Please write or type below this line

MEMORANDUM OF UNDERSTANDING

BETWEEN

OIL INDIA LIMITED

AND

GAUHATI UNIVERSITY

Memorandum of Understanding is made on the 12th day, in the month of October at
Dullajan in the year Two thousand Twenty Two

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Ratul Phukan

0004534529

Page 1 of 9

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at www.assamstamp.gov.in or using e-Stamp Mobile App of Stock Holding Corporation of India.
2. Any discrepancy in the details of this Certificate and as available on the website / Mobile App reflects it invalid.
3. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Computer Authority.

BETWEEN

OIL INDIA LIMITED a company incorporated under the Companies Act, 1956 in India and has a Registered Office at Duliajan, Assam-786602 & Corporate Office at OIL House, Plot. No.19, Sector -16A, Noida, Uttar Pradesh-201301, India, represented through its DGM (Geology) I/C & HoD (CoEES), Mr. Khagen Chandra Kalita, hereinafter, referred to as "OIL" which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns.

AND

Gauhati University, a premier institute of the State of Assam, established under Gauhati University Act, 1947, duly represented by Registrar, Gauhati University, having its registered office at Guwahati, hereinafter, referred to as 'GU' which unless repugnant to the context would include their successors, assignees, agents and executors on the other part.

OIL and **GU** shall hereinafter referred individually as "party" and collectively as "Parties"

Whereas:

- A. **OIL** is a Navratna Company under the Ministry of Petroleum & Natural Gas, Government of India, engaged in the business of exploration, production & transportation of crude oil & natural gas, extraction of liquefied petroleum gas and generation of wind and solar power in India and having participating interest in hydrocarbon acreages in few other countries.
- B. **DEPARTMENT OF GEOLOGICAL SCIENCES, GU** has been pursuing the research on the areas of petroleum geology, sedimentology, palaeontology, coal, remote sensing, structure/tectonics, and environmental studies and is willing to undertake the collaborative Research Programme with **OIL** as set out in details here under.
- C. Both **OIL** and **GU** recognize that there are complementary strengths and with a view to synergizing the respective strengths, the Parties agree that there is scope for mutual collaboration. The Parties also acknowledge complementary advantages available by virtue of which joint efforts can be made to establish mutual collaboration considering the business need of each other.

Khagen Chandra Kalita
Rajit Mahanta

D WHEREAS OIL and GU are intending to collaborate in the following projects:

Project 1: "Litho-structural analysis, Outcrop sequence stratigraphy and identification of potential zones of petroleum seepages in parts of the Naga Schuppen Belt and Inner Fold Belt of Manipur: A Remote Sensing and Field Techniques Approach

Subproject A: Litho-structural analysis and identification of potential zones of petroleum seepages in parts of the Naga Schuppen Belt, Assam-Arakan Basin: A Remote Sensing and Field Techniques Approach

Subproject B: Outcrop sequence stratigraphy in the Naga Schuppen Belt and Inner Fold-Belt of Nagaland and Manipur

Project 2: Study of sedimentology, lithofacies association, geological mapping of the Mio-Pliocene sedimentary sequence in parts of OIL's Operational Area in the Tripura Fold Belt: A Remote Sensing and Field Techniques Approach

NOW IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

ARTICLE-1 : SCOPE OF THE PROJECTS:

Subproject A. This project is proposed to study of the oil and gas seepages, viz. mapping, biomarkers, stable isotopes, oil-source correlation, geological mapping, identification and characterization macro and micro seepages in parts of Naga Schuppen belt adjoining the Inner Paleogene Fold belt of Assam-Arakan Basin which covers the area in parts of Assam and Arunachal Pradesh using remote sensing approach. Also, this project deals with the organic geochemical and reservoir characterization of the Disang-Barail and Surma sequence of Naga-Schuppen and adjoining Inner Fold belt of Assam- Arakan Basin to establish its hydrocarbon generation and entrapment in different parts of Naga-Schuppen and inner fold belt. The project also covers lithofacies analysis in the selected outcrop sections for identification of source, reservoir, and trap, if therein within the belt of Schuppen and Inner Fold belt region. With a view of preparing a large-scale geological map with identification of macro and micro seepages in different parts of the Belt of Schuppen and Inner fold belt region of Assam Arakan basin using remote sensing tools and geological fieldwork. The various analyses and information are to be integrated with the geological understanding of the area.

Subproject B: This project is proposed to study on outcrop sequence stratigraphy, sedimentary facies architectures of the Cenozoic sedimentary sequence present along the selected sections in parts of Naga Schuppen belt and adjoining Inner

Paleogene Fold belt of Assam-Arakan Basin. An attempt has to be made to study the sedimentary facies relationships within chronostratigraphic framework in parts of Naga-Schuppen belt and inner fold belt of Manipur. Also, this project deals with reservoir characterization of the Disang-Barail and Surma sequence of Naga-Schuppen and adjoining Inner Fold belt of Assam- Arakan Basin to establish its hydrocarbon generation and entrapment scenario

Project 2: This project is proposed to conduct the Geological and structural element mapping based on outcrop studies and satellite image analysis of the Tripura Fold Belt. A detailed sedimentological study of the Surma Group of rocks including facies analysis, shale geochemistry and reservoir properties has been proposed under this project.

ARTICLE-2:OBJECTIVES OF PROJECTS :

Subproject A:

- a) Survey for delineation of the target potential areas and mapping of oil & gas seepages with the help of mapping, biomarkers, stable isotopes, GC, Atomic absorption spectroscopy (AAS), oil-source correlation.
- b) Organic geochemical characterization of the source rocks in the Disang-Barail/ Surma sequence.
- c) Preparation of lithologs (along with lithofacies analysis) in the selected outcrop sections for identification of source, reservoir, and trap, if therein.
- d) Preparation of large scale geological maps showing hydrocarbon seepages and details lithological map of the Naga Schuppen Belt and Inner Fold Belt of Manipur using remote sensing tools and geological fieldwork. The findings of geological fieldwork carried out by Manipur and Nagaland University will be incorporated into the final geological map.
- e) Preparation of the Integrated Final Project report in collaboration with Manipur University and Nagaland University.

Subproject B:

- a) Study of the sedimentary facies architectures of the Cenozoic sedimentary sequence present along the selected sections.
- b) Study the sedimentation patterns.
- c) Study the sedimentary facies relationships within chronostratigraphic framework.
- d) Reservoir rock characterization of the sandstones in the Disang , Barail and Surma formation of the study areas.
- e) Final Integrated Project report.

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Project 2:

- a) Geological and structural element mapping based on outcrop studies and satellite image analysis
- b) Survey for delineation of the target potential areas and mapping of oil & gas seepages
- c) Study of sedimentology of the Surma Group of rocks.
- d) Study of the lithofacies and lithofacies association in the Surma Group.
- e) Study of organic geochemistry, petrography and palynofacies assemblage of the shales in the Surma Group for characterization of the hydrocarbon source rocks.
- f) Study of reservoir properties of the sandstones in the Surma Group.
- g) Final Integrated Project report.

ARTICLE-3 : JOINT COORDINATION COMMITTEE :

- a) To coordinating the activities between the parties under this MoU and to explore opportunities relating to each mutually agreed activity, a Joint coordination Team, herein after referred to as "JCT" shall be formed upon execution of the MoU.
- b) The mandate of JCT shall be outlining the technical scope of work, ascertain commercial aspects, defining Projects timelines and deliverables thereof
- c) The JCT will comprise of four (4) members with two (2) members nominated from OIL and 2 members nominated from GU.
- d) The JCT shall endeavour to take decisions unanimously.
- e) The JCT will be in constant touch through electronic medium and shall meet at least twice a year to identify and firm-up specific projects / activities.

ARTICLE-4 : CAPITAL ITEMS :

The items / Instruments which are capital in nature are used in course of Project may be returned to OIL after completion of the Projects OIL however may decide to offer these items to the University as a goodwill gesture.

ARTICLE-5 : CONFIDENTIALITY:

5.1 Subject to each Party's confidentiality undertaking in the relevant agreements entered with their respective third party(ies), the Parties, their affiliated parties, and

Rohit Mohanta

Khagan Chandan Kalita

their respective nominees/employees or consultants may during the implementation of various projects/activities covered under this MoU having access to proprietary information of the other Party considered confidential, classified, restricted or secret, whether specified to be confidential or not required under this MoU. The Parties undertake that they or their respective nominees/employees / authorized agents shall at all times protect the confidentiality of such information.

5.2 Each party shall remain liable for the breach of obligations under this Article by its nominees/employees / authorized agents. The Parties hereto shall cause their respective nominees/employees to protect the confidentiality of the said information.

5.3 Without limitation to the foregoing, each of the Parties agrees that it shall not divulge any commercial, trade or technical information of the disclosing Party marked as confidential to the third parties, without the prior consent of the disclosing Party which shall not be unreasonably delayed or withheld, except if:

- a) At the time of, or after the disclosure, such information is, or comes, in the public domain, due to reason other than a breach of confidentiality by the receiving Party;
- b) Such information was in the possession of the receiving Party without any commitment to keep such information as confidential as before the disclosure by the disclosing Party;
- c) Disclosed to receiving Party by a third party, which as per the knowledge of such Party, is not bound by any confidentiality obligation towards any other Party, after disclosing Party has disclosed such information;
- d) Disclosure is required under applicable law - judicial or quasi-judicial order or direction from any regulatory or administrative authority.

5.4 No Party shall, except without prior consent of the other Party, use, disclose, or reproduce any information contributed to or resulting from the projects/activities for any purpose other than the pursuit and the development of the project. The aforesaid confidentiality undertaking shall survive the termination of this MoU and shall remain valid and in full force and effect for 3 (three) years from the effective date of such termination.

5.5 Notwithstanding the above, the university/ faculties /project assistants along with OIL, however, may publish technical papers based on the acquired data in the field.

Khaqum Chandra Kaulik Rishi Mohanta

ARTICLE-6: INTELLECTUAL PROPERTY RIGHTS:

- 6.1 The Intellectual Property (IP) arising out of collaborative projects/activities undertaken under this MoU shall be jointly held in the name of OIL and GU wherein OIL will be the first Party, mentioning inventors from both sides OIL will be responsible to file maintain and defend the IP against any claim and/or possible encroachment using its resources. However technical support if required to defend any claim and/or possible infringement will be provided by GU
- 6.2 The right to the first use of IPR / Patent / Technology developed through this collaboration for its commercial exploitation shall rest with OIL and its subsidiaries
- 6.3 Both the Parties shall have full right to transfer/assign/license the product/process technology developed to a third party after the prior written consent of the other Party. In case of generation of profit by its uses from any third party, the same will be shared between both the Parties in equal proportion after recovery of expenses / investments in developing the product / process technology by the Parties

ARTICLE-7: RESPONSIBILITIES:

- 7.1 As the intent of the Collaboration involves research programme of a very collaborative nature, the OIL and the GU will each be responsible for conducting their portion of the collaborative research and will be specified in the individual projects to be undertaken in accordance with high scientific standards of science and technology
- 7.2 Neither the OIL nor the GU will be responsible to the other party for any losses that either party may suffer during the research work or from using the results of the Collaborative research.
- 7.3 Both the OIL and the GU will be individually responsible for insuring their own Premises, equipment and personnel for any claims that may arise from conduct of the Collaborative research and from use of the results of the collaborative research.

ARTICLE-8: FORCE MAJEURE:

- 8.1 In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the MEMORANDUM, the relative obligation of the party affected by such Force Majeure shall be suspended for the period during which such cause lasts. The term 'Force Majeure' as employed herein shall mean acts of God, War, Civil Riots, Fire directly affecting

K. S. Chandra K. S. Chandra

the performance of the Agreement, Natural Calamities, Pandemic and Acts and regulations of respective Ministries of the parties.

8.2 Upon occurrence of such cause and upon its termination, the party claiming that it has been rendered unable as aforesaid thereby shall notify the other party in writing along with satisfactory documentary evidence, the beginning of the cause amounting to Force Majeure as also the ending of the said cause by giving notice to the other party within 72 hours of the beginning/ ending of the cause respectively. Time for performance of the relative obligation suspended by Force Majeure shall then stand extended by the period for which such cause lasts. If performance is suspended by Force Majeure conditions lasting for more than 2 (two) months, either party shall have the option to terminate this MEMORANDUM whole or part at its discretion without any liability on its part.

ARTICLE-9: DURATION AND TERMINATION :

9.1 The MoU will be effective on the date of signing by the last party ("effective Date") and shall remain valid for an initial period of 5 (five) years unless terminated by either party or extend mutually, in writing by giving 60 (sixty) days advance notice.

9.2 After termination of the MoU, either Party shall not claim any damage / Compensation/loss on account of termination of the work, however termination of MoU shall in no way affect ongoing Projects.

9.3 In the event of termination, OIL, and GU shall take all necessary steps to affect the orderly completion / termination of the projects / activities in progress by respective obligations governing the implementation.

9.4 Upon termination, no Party shall use the confidential information, assimilated during operation of this MoU for developing Projects / activities of similar nature and competitive to business interests of other Party within 2 (Two) years from the effective date of termination of this MoU. However, Parties may use the confidential information required for the completion of ongoing projects.

ARTICLE-10: SETTLEMENT OF DISPUTES AND JURISDICTION:

10.1 In the event of any difference or dispute arising out of interpretation or application of the provisions of this MoU, the parties shall immediately consult each other with the view to expeditiously resolve such differences or disputes spirit of mutual understanding and cooperation. In case differences or disputes persist,

Rohit Kulkarni

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the differences / disputes shall be referred to senior management of Parties for further review. If the Parties cannot resolve the differences within 45 (Forty-five) days, the dispute(s) shall be referred to a Sole Arbitrator to be appointed by OIL with the consent of the GU as per the provisions of the Arbitration and Conciliation Act, 1996. The decision of the arbitrator shall be final and binding upon both parties. The Place of Arbitration shall be Guwahati.

10.2 The Courts of Guwahati shall have the sole and exclusive jurisdiction to adjudicate any dispute arising out of and during the continuation of the MoU.

ARTICLE-11: NON-BINDING OBLIGATIONS:

11.1 It is understood and agreed by the Parties that the understanding set out in this MoU embodies the declaration of the intentions of the Parties and is not intended to be any legally binding commitments of the Parties except the obligations under Confidentiality and Arbitration.

ARTICLE-12: RESOLUTION:

12.1 The parties resolve to act in good faith and by the spirit of the MoU to implement the provisions by the natural desire and interest of the Parties. No amendment to this MoU shall be valid unless made in writing and agreed upon by both Parties.

12.2 Each Party enters into this MoU as an independent Party and not as a Partner, representative, agent, or employee of the other. This MoU does not create or constitute either Party to be a Joint venture, partnership, agent, employee, or fiduciary of the other.

ARTICLE 13: INDEMNIFICATION:

Both OIL and GU shall indemnify, defend and hold each other harmless against any and all third party claim or loss or demand, damage and expenses of whatever kind and nature arising out of and during the course of execution of the collaborative research program, including but not limited to non-payment of dues to its staff and any persons, associations, institutions engaged by either Party, any negligent act or omission, or breach of statutory duty on the part of either Party, its staff, workers, agents.

ARTICLE 14: AMENDMENT OF CLAUSE:

Any amendment to any of the clauses of this MoU shall be proposed and sent in

Ratna Mahanta
Kalish
Khogin chandra

writing by the proposing Party to the other Party and if both the Parties mutually agree to such an amendment then the same shall be incorporated in the MOU and shall become binding on both the Parties from the date of agreement to such amendment unless otherwise agreed to

ARTICLE-15: NOTICES:

Any notices, under this Memorandum of Understanding/Agreement, will be delivered as follows:

For
Oil India Limited

HoD (CoEES)
Oil India Limited
Centre of Excellence for Energy Studies
INTEGRA, Rukminigaon, G. S. Road
Guwahati, Assam
India
PIN 781022

For
Gauhati University

Registrar
Gauhati University
Guwahati 781014
Email: registrar@gauhati.ac.in

Now, therefore, this Memorandum of Understanding is executed and signed in the presence of following witness(s) on the day, month and year cited hereinabove

For and on behalf of
Oil India Limited

For and on behalf of
Gauhati University

Signature

Signature


In the presence of

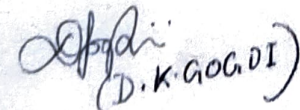
In the presence of

Witness:

Witness:

1.  (Nikamani Deka)

1.  (Pradip Borgohain)

2.  (D.K. GOGOI)

2. H. Chandra Sekaran
(Dr. H. CHANDRA SEKARAN)
Page 10 of 10





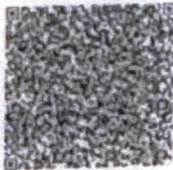
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 Certificate Issued Date : 30-Sep-2022 01:38 PM
 Account Reference : CSCACC (GV)/ abcscceg07/ AS-KMRAB0161/ AS-KM
 Unique Doc Reference : SUBIN-ASASCSCSEG0749400545522984U
 Purchased by : OIL INDIA LIMITED
 Description of Document : Article 5 Agreement or Memorandum of an agreement
 Property Description : MoU BETWEEN OIL INDIA LIMITED AND GAUHATI UNIVERSITY
 Consideration Price (Rs.) : 100
 (One Hundred only)
 First Party : OIL INDIA LIMITED
 Second Party : GAUHATI UNIVERSITY
 Stamp Duty Paid By : OIL INDIA LIMITED
 Stamp Duty Amount(Rs.) : 100
 (One Hundred only)



Please write or type below this line

MEMORANDUM OF UNDERSTANDING

BETWEEN

OIL INDIA LIMITED

AND

GAUHATI UNIVERSITY

Memorandum of Understanding is made on the 12th day, in the month of October at
Dullajan in the year Two thousand Twenty Two

Kempen Chandra Borth
Rohit Mohanta

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Page 1 of 9

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at www.assamstamp.gov.in or using e-Stamp Mobile App of Stock Holding Corporation of India.
2. Any discrepancy in the details of this Certificate and as available on the website / Mobile App reflects it invalid.
3. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Computer Authority.

BETWEEN

OIL INDIA LIMITED a company incorporated under the Companies Act, 1956 in India and has a Registered Office at Duliajan, Assam-786602 & Corporate Office at OIL House, Plot. No.19, Sector -16A, Noida, Uttar Pradesh-201301, India, represented through its DGM (Geology) I/C & HoD (CoEES), Mr. Khagen Chandra Kalita, hereinafter, referred to as "OIL" which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns.

AND

Gauhati University, a premier institute of the State of Assam, established under Gauhati University Act, 1947, duly represented by Registrar, Gauhati University, having its registered office at Guwahati, hereinafter, referred to as 'GU' which unless repugnant to the context would include their successors, assignees, agents and executors on the other part.

OIL and **GU** shall hereinafter referred individually as "party" and collectively as "Parties"

Whereas:

- A. **OIL** is a Navratna Company under the Ministry of Petroleum & Natural Gas, Government of India, engaged in the business of exploration, production & transportation of crude oil & natural gas, extraction of liquefied petroleum gas and generation of wind and solar power in India and having participating interest in hydrocarbon acreages in few other countries.
- B. **DEPARTMENT OF GEOLOGICAL SCIENCES, GU** has been pursuing the research on the areas of petroleum geology, sedimentology, palaeontology, coal, remote sensing, structure/tectonics, and environmental studies and is willing to undertake the collaborative Research Programme with **OIL** as set out in details here under.
- C. Both **OIL** and **GU** recognize that there are complementary strengths and with a view to synergizing the respective strengths, the Parties agree that there is scope for mutual collaboration. The Parties also acknowledge complementary advantages available by virtue of which joint efforts can be made to establish mutual collaboration considering the business need of each other.

Khagen Chandra Kalita
Rajit Mishra

D WHEREAS OIL and GU are intending to collaborate in the following projects:

Project 1: "Litho-structural analysis, Outcrop sequence stratigraphy and identification of potential zones of petroleum seepages in parts of the Naga Schuppen Belt and Inner Fold Belt of Manipur: A Remote Sensing and Field Techniques Approach

Subproject A: Litho-structural analysis and identification of potential zones of petroleum seepages in parts of the Naga Schuppen Belt, Assam-Arakan Basin: A Remote Sensing and Field Techniques Approach

Subproject B: Outcrop sequence stratigraphy in the Naga Schuppen Belt and Inner Fold-Belt of Nagaland and Manipur

Project 2: Study of sedimentology, lithofacies association, geological mapping of the Mio-Pliocene sedimentary sequence in parts of OIL's Operational Area in the Tripura Fold Belt: A Remote Sensing and Field Techniques Approach

NOW IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

ARTICLE-1 : SCOPE OF THE PROJECTS:

Subproject A. This project is proposed to study of the oil and gas seepages, viz. mapping, biomarkers, stable isotopes, oil-source correlation, geological mapping, identification and characterization macro and micro seepages in parts of Naga Schuppen belt adjoining the Inner Paleogene Fold belt of Assam-Arakan Basin which covers the area in parts of Assam and Arunachal Pradesh using remote sensing approach. Also, this project deals with the organic geochemical and reservoir characterization of the Disang-Barail and Surma sequence of Naga-Schuppen and adjoining Inner Fold belt of Assam- Arakan Basin to establish its hydrocarbon generation and entrapment in different parts of Naga-Schuppen and inner fold belt. The project also covers lithofacies analysis in the selected outcrop sections for identification of source, reservoir, and trap, if therein within the belt of Schuppen and Inner Fold belt region. With a view of preparing a large-scale geological map with identification of macro and micro seepages in different parts of the Belt of Schuppen and Inner fold belt region of Assam Arakan basin using remote sensing tools and geological fieldwork. The various analyses and information are to be integrated with the geological understanding of the area.

Subproject B: This project is proposed to study on outcrop sequence stratigraphy, sedimentary facies architectures of the Cenozoic sedimentary sequence present along the selected sections in parts of Naga Schuppen belt and adjoining Inner

Paleogene Fold belt of Assam-Arakan Basin. An attempt has to be made to study the sedimentary facies relationships within chronostratigraphic framework in parts of Naga-Schuppen belt and inner fold belt of Manipur. Also, this project deals with reservoir characterization of the Disang-Barail and Surma sequence of Naga-Schuppen and adjoining Inner Fold belt of Assam- Arakan Basin to establish its hydrocarbon generation and entrapment scenario

Project 2: This project is proposed to conduct the Geological and structural element mapping based on outcrop studies and satellite image analysis of the Tripura Fold Belt. A detailed sedimentological study of the Surma Group of rocks including facies analysis, shale geochemistry and reservoir properties has been proposed under this project.

ARTICLE-2:OBJECTIVES OF PROJECTS :

Subproject A:

- a) Survey for delineation of the target potential areas and mapping of oil & gas seepages with the help of mapping, biomarkers, stable isotopes, GC, Atomic absorption spectroscopy (AAS), oil-source correlation.
- b) Organic geochemical characterization of the source rocks in the Disang-Barail/ Surma sequence.
- c) Preparation of lithologs (along with lithofacies analysis) in the selected outcrop sections for identification of source, reservoir, and trap, if therein.
- d) Preparation of large scale geological maps showing hydrocarbon seepages and details lithological map of the Naga Schuppen Belt and Inner Fold Belt of Manipur using remote sensing tools and geological fieldwork. The findings of geological fieldwork carried out by Manipur and Nagaland University will be incorporated into the final geological map.
- e) Preparation of the Integrated Final Project report in collaboration with Manipur University and Nagaland University.

Subproject B:

- a) Study of the sedimentary facies architectures of the Cenozoic sedimentary sequence present along the selected sections.
- b) Study the sedimentation patterns.
- c) Study the sedimentary facies relationships within chronostratigraphic framework.
- d) Reservoir rock characterization of the sandstones in the Disang , Barail and Surma formation of the study areas.
- e) Final Integrated Project report.

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Project 2:

- a) Geological and structural element mapping based on outcrop studies and satellite image analysis
- b) Survey for delineation of the target potential areas and mapping of oil & gas seepages
- c) Study of sedimentology of the Surma Group of rocks.
- d) Study of the lithofacies and lithofacies association in the Surma Group.
- e) Study of organic geochemistry, petrography and palynofacies assemblage of the shales in the Surma Group for characterization of the hydrocarbon source rocks.
- f) Study of reservoir properties of the sandstones in the Surma Group.
- g) Final Integrated Project report.

ARTICLE-3 : JOINT COORDINATION COMMITTEE :

- a) To coordinating the activities between the parties under this MoU and to explore opportunities relating to each mutually agreed activity, a Joint coordination Team, herein after referred to as "JCT" shall be formed upon execution of the MoU.
- b) The mandate of JCT shall be outlining the technical scope of work, ascertain commercial aspects, defining Projects timelines and deliverables thereof
- c) The JCT will comprise of four (4) members with two (2) members nominated from OIL and 2 members nominated from GU.
- d) The JCT shall endeavour to take decisions unanimously.
- e) The JCT will be in constant touch through electronic medium and shall meet at least twice a year to identify and firm-up specific projects / activities.

ARTICLE-4 : CAPITAL ITEMS :

The items / Instruments which are capital in nature are used in course of Project may be returned to OIL after completion of the Projects OIL however may decide to offer these items to the University as a goodwill gesture.

ARTICLE-5 : CONFIDENTIALITY:

5.1 Subject to each Party's confidentiality undertaking in the relevant agreements entered with their respective third party(ies), the Parties, their affiliated parties, and

Rohit Mohanta

Khagan Chandan Kalita

their respective nominees/employees or consultants may during the implementation of various projects/activities covered under this MoU having access to proprietary information of the other Party considered confidential, classified, restricted or secret, whether specified to be confidential or not required under this MoU. The Parties undertake that they or their respective nominees/employees / authorized agents shall at all times protect the confidentiality of such information.

5.2 Each party shall remain liable for the breach of obligations under this Article by its nominees/employees / authorized agents. The Parties hereto shall cause their respective nominees/employees to protect the confidentiality of the said information.

5.3 Without limitation to the foregoing, each of the Parties agrees that it shall not divulge any commercial, trade or technical information of the disclosing Party marked as confidential to the third parties, without the prior consent of the disclosing Party which shall not be unreasonably delayed or withheld, except if:

- a) At the time of, or after the disclosure, such information is, or comes, in the public domain, due to reason other than a breach of confidentiality by the receiving Party;
- b) Such information was in the possession of the receiving Party without any commitment to keep such information as confidential as before the disclosure by the disclosing Party;
- c) Disclosed to receiving Party by a third party, which as per the knowledge of such Party, is not bound by any confidentiality obligation towards any other Party, after disclosing Party has disclosed such information;
- d) Disclosure is required under applicable law - judicial or quasi-judicial order or direction from any regulatory or administrative authority.

5.4 No Party shall, except without prior consent of the other Party, use, disclose, or reproduce any information contributed to or resulting from the projects/activities for any purpose other than the pursuit and the development of the project. The aforesaid confidentiality undertaking shall survive the termination of this MoU and shall remain valid and in full force and effect for 3 (three) years from the effective date of such termination.

5.5 Notwithstanding the above, the university/ faculties /project assistants along with OIL, however, may publish technical papers based on the acquired data in the field.

Khaqum Chandra Kaulik Rishi Mohanta