



**MEMORANDUM
OF
UNDERSTANDING
BETWEEN
IIT MANDI
AND
MIGS GLOBAL PVT LTD
AND
ADVENT OILFIELD SERVICES PVT LTD**

24TH January 2025

MEMORANDUM OF UNDERSTANDING (MOU)

This Memorandum of Understanding (the "**MOU**") dated 24.01.2025, is entered into by and between:

BETWEEN

Indian Institute of Technology (IIT), Mandi, is one among the eight newer second-generation IITs, having its office at Mandi, Himachal Pradesh-175001 and includes its successors and permitted assigns.

AND

MIGS Global Consulting Pvt. Ltd. Gurgaon, a subsidiary of Mitkat Advisory Services, having its corporate office at Suite #007, 4th Floor, Times Square, Sushant Lok -1, Gurgaon – 122 022, Haryana, is a consulting organisation with a strong portfolio in business resilience, information Security management, geo-political risk management, and crisis management (**Second Party/ MIGS**), which expression unless excluded by or repugnant to the context shall mean and include its representatives, executors, successors, administrators and assignees of the Second Party.

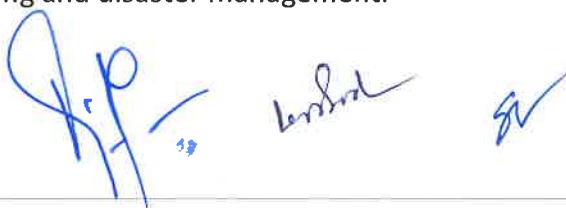
AND

Advent Oilfield Services Pvt. Ltd. is a company specialising in Geographic Information Systems (GIS) and Remote Sensing activities, with a focus on geo-spatial database creation and precision mapping, having its registered address at 802, Paarth Executive, GH-66, Sector-55, Gurgaon, Gurgaon, Haryana, India, 122002 (**Third Party/Advent Oilfield**)

IIT Mandi, MIGS and Advent Oilfield shall hereinafter be collectively referred to as "**Parties**" and individually as "**Party**".

WHEREAS:

- i. **IIT Mandi** is one among eight newer IITs. It maintains the infrastructure and expertise related to most major disciplines of Engineering and Science. It is known for many research laboratories and centres maintaining state-of-the-art equipment and testing machines.
- i. **MIGS** is a Management Consultancy offering a variety of risk assessment and management services, security (Physical, IT, Cyber) design, and tech-enabled solutions to de-risk businesses and facilitate operations of corporations, government departments, and large Infrastructure projects across the globe. It leverages "Datasurfr", an AI-based Predictive Risk Intelligence Platform, for real-time insights, enhancing decision-making during critical events. This platform enhances decision-making through artificial intelligence, providing invaluable crisis management and risk assessment tools. **MIGS** also has an association with technology partners, and with this **MoU**, the technology partner's expertise will also be used in developing and promoting climate-resilient observing systems to enhance weather forecasting and disaster management.



- ii. With offices in Gurgaon, Haryana and Kandaghat, District Solan, and Himachal Pradesh, **Advent's** team includes local young talent, bringing valuable regional knowledge and expertise to support GIS-based environmental and infrastructure planning.

Now, therefore, the Parties hereby have reached the understanding as follows:

- 1) a) Parties decided to enter into a MoU to create a collaborative framework among **IIT Mandi, MIGS, and Advent Oilfield** to address challenges posed by environmental risks and climate-induced disasters in Himachal Pradesh by aiming at formulating effective solutions to enhance resilience, risk assessment, and early warning systems for the state of Himachal Pradesh in India.

- The parties shall collaborate on developing advanced systems for climate-related hazard mitigation, focusing on Glacial Lake Outburst Floods (GLOF), landslides, and other natural disasters in Himachal Pradesh.
- By combining the technological expertise of IIT Mandi and MIGS's capabilities, including support from MIGS's technology partners, **Datasurfr** platform and Advent's GIS/Remote Sensing capabilities, this initiative seeks to create an integrated approach to disaster management for the region.
- Performing research for the mitigation of disasters in the state of Himachal Pradesh
- Organise training /Workshops for the concerned officials at the district/state level, etc.

b) **IIT Mandi** shall provide technical expertise in engineering, environmental sciences, and machine learning to develop methodologies for risk assessment and resilience planning. Research advanced data analytics and real-time monitoring techniques to support risk prediction models specific to the region's environmental challenges.

c) **MIGS** will integrate its **Datasurfr** platform and other crisis management tools for enhanced monitoring and predictive analysis of natural disasters. MIGS will also apply its experience in business resilience and crisis management to enhance the framework for rapid, data-driven decision-making and response.

d) **Advent Oilfield** shall offer GIS/Remote Sensing services, including geo-spatial database creation and mapping of critical risk zones within the state.

The image shows three handwritten signatures in blue ink at the bottom of the page. The first signature on the left is a stylized, cursive signature. The middle signature is more legible and appears to be 'Kandaghat'. The signature on the right is also cursive and less legible.

e) The parties will form a team comprising six members, with two representatives from each side. MIGS will provide the expertise and solutions to IIT for their technical consultancy and inputs, which will be required to customise the proposal/solution to meet the specific requirements of the Himachal Pradesh state. Meanwhile, Advent Oilfield will supply the necessary manpower and carry out activities related to geodatabase preparation. **Any proposal being submitted to the Funding agency would be vetted by IIT Mandi before submission. Also, the flow of funds would be categorically stated in the proposal i.e. how much amount pertains to IIT Mandi and how much amount pertains to other parties to the MoU. It would be endeavoured that funds flow directly to the individual parties to the MoU from the funding agency for their scope of work.**

f) Pursuant to this MoU, a formal agreement shall be entered into between the parties on work a work basis, setting out the detailed scope of work & methodology of working as per rate, terms and conditions as may be considered relevant and necessary for the successful execution of the work.

2) Cost and Expenses:

Unless otherwise agreed in writing between the Parties, each Party shall bear its own cost and expenses in connection with the MoU.

3) Duration:

The MoU shall remain in force for 5(five) years from the date of signing.

4) Applicable Laws:

This MoU shall be governed by the Indian Laws.

5) Notices:

Any notice, request or other communication required or permitted to be given under this MoU shall be written in English and addressed to each other as follows:

To	To	To
IIT Mandi	MIGS Global Consulting Pvt. Ltd.	Advent Oilfield Services Pvt. Ltd
Director	Director	Director
Mandi-175005	Suite #007, 4th Floor, Times Square, Sushant Lok -1, Gurgaon – 122 022	1103, Millenium Plaza, Tower-B, Sector-27, Gurgaon -122002
H.P.	Haryana	Haryana
Email: deansric@iitmandi.ac.in	Email: rajiv.mathur@migs.co.in	Email: kd.sood@adventofs.com

- 6) This MoU shall not be assigned by any Party except with the prior written consent of the other Parties.

7) Confidentiality:

Each Party agrees to treat as confidential all documents, information, and negotiations concerning the technical, economic, and marketing details of the other Party in connection with this MoU. No such information shall be disclosed or made public without the prior consent and approval of the other Party. However, **these restrictions shall not apply to publicly available information or research publications related to the study conducted under this MoU.**

8) Representations and Warranties:

- a. Each Party to this MoU has the necessary power, authority and legal right and title to execute and deliver this MoU and to perform and observe the terms and provisions hereof:
- b. All authorisations, including corporate authorisations required by each Party in connection with the execution, delivery and performance of its obligations, have been obtained and are in full force a defect and legally valid and binding.

9) Dispute Resolution:

- a. The Parties agree that in the event of any dispute or difference relating to the interpretation and application of the provisions of the MoU, the Parties shall attempt to resolve such disputes or differences by mutual negotiations or discussions within 60 days from the date of receipt of a letter from other Part about the said dispute or disagreement.
- b. In the event of any dispute or difference relating to the interpretation and application of the provision of the MoU between the Parties, such dispute or difference shall be taken up by either Party for resolution through AMRCD as mentioned in " DPE OM No.4(1)2013-DPE(GM)/FTS-1835 Dt. 22.05.2028."

IN WITNESS WHEREOF, the undersigned have executed this MOU on behalf of their respective organisations as of the date written below.



Signed on this 24th of January, 2025

Dean SRIC
IIT Mandi
Kamand - 175005,
H.P., India

1. For IIT Mandi:

Syed Abbas
24/1/2025

Prof. Syed Abbas, Dean (SRIC)

2. For MIGS Global Consulting Pvt. Ltd.:

Rajiv Mathur .. 24/01/25

Prof. (Dr.) Rajiv Mathur, Partner at MIGS



3. For Advent Oilfield Services Pvt. Ltd.:

Krishan Dev Sood
24/1/2025

Krishan Dev Sood, Advisor



Witnesses:

1.

Shukla
24/01/2025
(D.P. Shukla)

2.

K.V. Uday
(K.V. Uday)