

## **Memorandum of Understanding**

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Between

**Oster Chemical & Pharmaceutical Works Pvt Ltd**  
**124/4A, Manicktala Street**  
**Kolkata - 700006**

And

**Multidisciplinary Research and Consultation**  
**Department of Chemical Energy**  
**Haldia Institute of Technology**  
**P.O. Hatiberia, Dist- Purba Medinipur, Pin 721657**  
**Haldia, West Bengal, India**

This Memorandum of Understanding (MOU) sets for the terms and understanding between the Oster Chemicals & Pharmaceutical Works Pvt Ltd, Kolkata and the Department of Chemical Engineering, Haldia Institute of Technology, Haldia, West Bengal, India to solve various issues on manufacturing speciality chemicals and pharmaceutical works.

#### **Background**

The benefit of multidisciplinary research which was the most cited and **provides different approaches and perspectives on problems**. The probability of reasonable solutions in the thrust areas enhances due to cross analysis by expertise of the allied discipline. The knowledge gap could minimize due to coherence of multidisciplinary experts. However the solution towards the industrial problems would be realistic and approachable. The possibilities of getting consultancy from industries will increase without any doubt. However, when working with other researchers toward a common goal, they can critically think through their own processes and techniques and judge them against other research techniques.

Multidisciplinary project team members also have access to the data they usually would not collect. This additional data may spur them to adapt their techniques to include new sources of data in future research or refine their theories based on conclusions drawn from that previously unexplored data. At a broader level, with multiple researchers from several disciplines all working towards the same goal to achieve. Their combined output will examine the problem from every side and provide a robust answer not typically found in a stovepipe one-discipline approach. Thus, the added input from other disciplines furthers the conclusions derived from the research, and multiple groups are all able to converge and support a unified comprehensive solution to the problem.

#### **Purpose**

This MOU will help both parties to exchange expertise and knowledge to develop various speciality chemicals by resolveing the technical issues related to pharmaceutical works.

The above goals will be accomplished by undertaking the following activities:

#### **Reporting**

Mr. D<sup>a</sup>pak Dutta, Dr. Biswajit Mandal and Dr. Sunil Baran Kuila will evaluate the progress and roadmap of the future research work .

#### **Funding**

(Specify that this MOU is not a commitment of funds)

#### **Duration**

This MOU is at-will and may be modified by mutual consent of authorized officials from (list partners). This MOU shall become effective upon signature by the authorized officials from the (list partners) and will remain in effect until modified or terminated by any one of the partners by mutual consent. In the absence of mutual agreement by the authorized officials from (list partners) this MOU shall end on (end date of partnership).

#### **Contact Information**

**Partner name:** Department of Chemical engineering, Haldia Institute of Technology

**Partner representative:** Dr. Biswajit Mandal and Dr. Sunil Baran Kuila

**Position:** Associate Professor, Coordinator of Multidisciplinary Research and consultationand HOD of Chemical Engg. Department

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**Partner name:**Oster Chemical & Pharmaceutical works Pvt. Ltd., Kolkata

**Partner representative:**Mr. D<sup>a</sup>pak Dutta

**Position:**Managing Director, Oster Chemical & Pharmaceutical works Pvt. Ltd.

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Oster Chemical & Pharmaceutical  
Works Pvt. Ltd.

02 Date: 21-03-2022

(Mr. D<sup>A</sup> pak Dutta, Managing Director, Oster Chemical & Pharmaceutical works Pvt. Ltd.)  
Managing Director

Biswajit Mandal Date: 16/03/22

(Dr. Biswajit Mandal, Associate Professor, Coordinator of Multidisciplinary Research on  
consultation, Dept. of Chemical Engg., HIT, Haldia)

Sunil Baran Kuila Date: <sup>Head</sup>  
Dept. of Chemical Engg.  
Haldia Institute of Technology

(Dr. Sunil Baran Kuila, Professor and HOD of Chemical Engg., Department, HIT, Haldia)

Subrato Mandal Date: 15.03.2022  
(Dr. Subrato Mandal, Principal, HIT, Haldia)

<sup>Principal</sup>  
Haldia Institute of Technology

