

**Mr. Biplab Gope**

**Senior Research Fellow**

**Supervisor- Prof. Swadhin Kumar Mandal**

**Research Interest- *Synthesis and reactivity of aNHC-derived low valent main group compounds***

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***A brief overview about myself:***

I joined Prof. Mandal's lab in January, 2023, after cracking CSIR-UGC NET-December 2022. I completed my B.Sc with honours in Chemistry from Durgapur Government College and M.Sc from Delhi University. I am working on the development of aNHC-derived low valent main group compounds, synthesis, catalysis and reactivity studies. So far, we have explored coordination chemistry with monovalent phosphorus, termed as Phosphinidine, where we have shown coordination chemistry of low valent phosphorus with transition metals and main group elements and also explored catalysis. Currently, we have explored the reduction of one of the aNHC-derived main group adducts, mesoionic N-heterocyclic thiones (mNHT). Now, we are exploring the coordination chemistry of this mNHT radical anion. I recently participated in organizing an international conference, the 30<sup>th</sup> International Conference on Organometallic Chemistry- 2024, in Agra, and also achieved the best poster award.

***List of publications:***

- Maji, S.; Gope, B.; Sharma, M.; Das, A.; Jose, A.; Biswas, A.; Bhattacharyya, K.; Mandal, S. K. *Angew. Chem., Int. Ed.* **2024**, e202418673.