

Annexure – XI

Final Report Assessment/ Evaluation Certificate (Two Members Expert Committee Not Belonging to the Institute of Principal Investigator) (to be submitted with the final report)

It is certified that the final report of Major Research Project entitled “Design, development and characterization of mesoporous functional metal-organic framework (MOF)” by Dr. Pulakesh Bera, Department of Chemistry, Panskura Banamali College (Autonomous) has been assessed by the committee consisting the following members for final submission of the report to the UGC, New Delhi under the scheme Major Research Project (F.No.42-280/2013(SR)).

Comments and Suggestions of the Expert Committee: -

Comments and Suggestion

1. Design and synthesis of about new secondary building units (SBU)/ligands were synthesized according to the objective of the project.
2. Several metal-organic compounds were formed using the new ligands which are mostly coordination polymers and devoid of the qualities of true MOFs.
3. The synthesized metal-organic compounds were thoroughly characterized.
4. Various applications like catalytic activities towards several dyes degradation, *in vitro* catecholase mimicking activities, DNA cleavage activity, cell cytotoxicity measurements, preparation of various nanoparticles using the new compounds as single-source precursor (SP) and photovoltaic application were experimented.
5. Six papers were published under this project.
6. Two Ph. D and nine M. Sc students were benefited from this project.

Overall comment: The project entitled “Design, development and characterization of mesoporous functional metal-organic framework (MOF)” [F. No. 42-280/2013 (SR) Dated-12/03/2013], was complete in the stipulated time period and the volume of work done under this project is satisfactory with respect to the primary objective of the project.

Name & signature of Experts with date:



28.04.2021

Dr. Sudipta Dalai
Professor
Department of Chemistry
VIDYASAGAR UNIVERSITY
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It is certified that the final report has been uploaded on UGC-MRP portal on ..03-05-2021.....

It is also certified that final report, Executive summary of the report, Research Documents, monograph academic papers provided under Major Research Project have been posted on the website of the University/College.



Principal

Principal
Panskura Banamali College
(AUTONOMOUS)