

ASSESEMENT /EVALUATION REPORT

Under University Grant Commission, MRP

Bahadur Shah Zafar Marg, New Delhi

A: DETAILS OF PROJECT



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| 1. | UGC Reference No. & Date | MRP-MAJOR-CHEM-2013-11799(SC) & 01-07-2015 |
| 2. | Name of the Principal Investigator | Dr. C. Sivasankar |
| 3. | Address with e-mail & mobile No. | Office: Dr. C. Sivasankar, Professor, Dept. of Chemistry, Pondicherry University, RV. Nagar-Kalapet Pondicherry-605014. |
| 4. | Department and University/College where the project has undertaken | Chemistry & Pondicherry University |
| 5. | Title of the project | "Electronically and structurally tuned synthesis and biological studies of metal based CO releasing molecules (CORMS)" |
| 6. | Date of Implementation | 01-07-2015 |
| 7. | Tenure of the project | <u>3</u> Years, from <u>01-07-2015</u> to <u>30-06-2018</u> |
| 8. | Name of the Project fellow & date of appointment | P.Kuzhalmozhimadarasi & 03.12.2015 |
| 9. | Grant Received | Total allocation (Rs): 11,79,600 1 st instalment (Rs): 7,31,600 2 nd instalment (Rs): 2,42,268 |
| 10. | Project Status | Completed |



Dr. C. SIVASANKAR
Professor
Department of Chemistry
Pondicherry University
Puducherry - 605 014. India

B: EVALUATION REPORT OF EXPERT MEMBERS

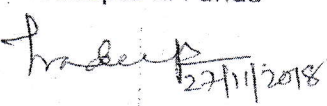
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| 1. | Name of the Principal Investigator: | Dr. C. Sivasankar |
| 2. | Designation: | Professor |
| 3. | Address of Principal investigator: | Dept. of. Chemistry, Pondicherry University, RV. Nagar-Kalapet Pondicherry-605014. |
| 4. | Whether work is focused on the title of sanctioned project: | Yes |
| 5. | Whether original work is done: | Yes |
| 6. | Whether significant contribution made by Principal investigator: | Yes |
| 7. | Whether proposed work have relevance to the society/scientific community: | It's related to basic science having consequence in long term application. |



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| 8. | What type of contribution found in the final report: Theoretical/practical (If there are theoretical contributions given by the principal investigator) | Both practical and theoretical contributions are there. |
| 9. | Whether theoretical contributions and their results and findings are published: | No. |
| 10. | Whether results and findings are significant: | Yes. |
| 11. | Whether the significant publications are made by principal investigators in peer reviewed journals: | Yes. |
| 12. | The number of publications made by principal investigator in standard reputed journal : | Two and few more under preparation. |
| 13. | Whether contributions made by principal investigator is sufficient: | Yes. |
| 14. | The findings and results of the sanction projects are justifiable: | Very much. |
| 15. | Whether completed project work meet the proposed objectives: | Yes to a large extent. |




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| 16. | Give your brief comments on the overall work of the project: | The PI has synthesized several Mn based metal carbonyl complexes and evaluated their CO releasing ability under visible and UV light. The cytotoxicity study using MTT assay, shows one of the complex to be of potential use as anti-cancer agent. Using theoretical studies, they found the bonding between metal and various ligand systems in metal carbonyl complexes, determines the CO release. They could unequivocally rule out the release of <i>trans</i> CO from the octahedral complex. |
| 17. | Any specific comments: | The progress is good and could have been much better with the anti-cancer study completed and the computational data published, to get a clear feedback from the experts in the specific area. |
| 18. | Indicate your overall assessment of the project : Poor/Good/Excellent Date: Place: Name: Signature: Address of expert: | Good. 27/11/2018 Hyderabad Pradeepta K. Panda  Professor, School of Chemistry, University of Hyderabad, Hyderabad - 500046 |


Registrar
Pondicherry University





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