

amal nathan <nathan.amalphysics@gmail.com>

UGC-DAE CSR ** CRS Project (2022-23)Status**

UGC-DAE CSR <support@csruserportal.com>

Reply-To: support@csruserportal.com

To: nathan.amalphysics@gmail.com

Wed, May 24, 2023 at 12:02 AM

Welcome to UGC-DAE CSR

Dear Dr. Dr.M.Amalanathan,

The updated status of your CRS project can now be seen at our user portal. Due to the limited amount of funds received from UGC, funds could be released only to some CRS projects. It is anticipated that funds for remaining CRS projects will soon be available from UGC and subsequently released. Please login to your account to view the sanction order and status of your project.

With best regards,

User Office, UGC-DAE CSR

Note: This is a system generated email. Please don't reply.



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CRS/2022-23/01/662



Accepted

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Yes

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- Journals Reg

CRS project approved without student fellowship Inbox x

 **CRS Project** <support@csruserportal.com>
to me



विश्वविद्यालय अनुदान आयोग - परमाणु ऊर्जा विभाग वैज्ञानिक अनुसंधान संकुल
UGC-DAE Consortium for Scientific Research
(An Autonomous Institution of University Grants Commission, New Delhi)

CRS Program

CRS Projects FY 2022-23.

Dear Dr.M.Amalanathan,

With reference to the CRS project proposal **CRS/2022-23/804** submitted at UGC-DAE, it has been evaluated by the User Committee and the status of your project proposal is:

Approved without student fellowship.

Kindly note that we have received a larger number of project proposals and due to limited resources only a few could be approved with a student fellowship.

In case you are willing to take up this project, please login to our user portal by **March 25, 2023**. Guidelines: https://www.csruserportal.com/data/Guidelines_for_CRS_Projects_FY_2022-23.pdf

Please note that the decision of the User Committee is final and no communication will be entertained thereafter.



CRS/2022-23/804

Chosen Centre: Indore

Project details	
Project title:	Synthesis of noble metal doped/transition metal oxide nanostructured composite for super capacitor electrode
Type of Project:	In-house facilities of Indore Centre
Name(s) of Principal Collaborator from UGC-DAE CSR:	Dr. R. Venkatesh
Names(s) of other Collaborator(s) from UGC-DAE CSR (if any):	N.P. Lalla
Names(s) of Collaborators from DAE (if any):	Rajamani Raghunathan
Is there an ongoing CRS project of UGC-DAE CSR as a PI?	No
Financial support required from UGC-DAE CSR?	Yes
Require Fellowship for a Student?	Yes
Consumable (MAX 50,000/- PER YEAR):	Yes
contingency (MAX 15,000/- PER YEAR):	Yes
Do you have any ongoing/submitted project with SERB/UGC/CSIR/BRNS or other funding agencies?	No
Personal Information	
Name of the Principal Investigator (PI):	Dr.M.Amalanathan
Date of Birth:	1984-03-09
Designation:	Head of the Department
Affiliation:	Nanjil Catholic College of Arts and Science
Official E-mail address:	nathan.amalphysics@gmail.com
Postal address:	Nanjil Catholic College of Arts and Science Nedumcodu Kaliyakkavilai Kanyakumari District Pincode: 629153
Bank Details	
Beneficiary Name	Nanjil Catholic College of Arts and Science
Account Number	10270100217857
Bank Name	FEDERAL BANK
IFSC Code	FDRL0001027
Branch Name	PARASALA
Finance Authorities	
Account Officer's Name	Dr.N.R.Sheela
Account Officer's Email	nanjilccas@gmail.com

Synthesis of noble metal doped/ transition metal oxide nanostructured composite for super capacitor electrode

1. Introduction

Energy is one of the major resources used by the humans. Energy consumption has consistently grown in all sectors, including agricultural, industrial, commercial, and residential, during the last few decades, and is anticipated to continue to rise. India has been addressing the effects of energy on the environment, including air, water, land, and waste. In India, the energy industry is essential for both achieving sustainable development goals and minimising environmental externalities. A major issue is reducing the negative impact of air pollution on human health. India's coal supply has increased substantially, and coal continues to be the country's principal energy and power generating source. In the face of tighter air pollution restrictions, new coal power plants that are more efficient, flexible, and release less pollutants will be better positioned for economic viability. An efficient coal sector is critical not just for electricity generation, but also for industrial development in industries such as steel, cement, and fertilisers. Coal is used for power generation, oil is used for transportation and industry, and biomass is used for home heating and cooking. Bioenergy and the majority of coal is generated in the nation. Bioenergy supply has grown slowly in comparison to the explosive expansion of fossil fuels. Hydropower supply has remained reasonably constant over the last decade, growing at a rate of approximately 10%. Wind and solar, on the other hand, have grown at a quick pace, although from considerably lower levels.

Although funding for Nanotechnology has risen dramatically in the last five years, practical application of the research to tackle issues across the studies disciplines remains a challenge. These studies have helped solar cells and fuel cells, but the implications are not represented in today's products. Thin-film nanotechnology, and electrode for batteries are crucial areas for green-cell-based innovations. In the fields of fuel cells, reformers, and hydrogen storage, a number of institutions and research groups are active. The automobile industry will transition to fuel cells, but they must make the best decision for their individual applications. Additionally, cost reduction and dependability can only be achieved through nanotech enabled solutions, which opens up a new market and adds a new dimension to this sector. We've also targeted emerging countries as a market. Portable Nano-enabled fuel cells would be used in the electronics sector. Researchers are currently concentrating their efforts on developing solar PV, lithium batteries, and solar charging infrastructure. The world has witnessed massive research and development in the field of nanotechnology, but the application of the findings in green energy is an area that has yet to be successfully implemented for a variety of reasons, both known and unknown.

This research investigates the current issues in solar and fuel cell energy and suggests nanotechnology-based solutions. We have detailed the current development in this field as well as our previous work in this proposal. Metal embedded metal oxide composite based electrode, for super capacitor application are set to be considerably more helpful than their present counterparts. In this novel work we focused on the consequences of introducing Nano-enabled green cells. In this present work, gives a details report about production, modelling, reliable, high efficient, and low cost, metal embedded metal oxide composite for energy application.

2. Objective

- To fabricate metal doped metal oxide composite nanostructure for super capacitor electrode by hydrothermal method.
- Different nanostructured composites can be synthesized by varying dopant and synthesis parameters.
- Structural, optical, morphological and electrochemical properties are to be carried out using analytic instruments.
- Tuning the band gap and electrochemical behaviour by varying oxygen stoichiometry in the metal oxides, heat treatment, inclusion of dopant, fabricate suitable nanostructured composite.
- To commercialize the nanostructured composite as a super capacitor electrode.

4. Novelty of the research

- Tailoring the properties of electrode: tuning the band gap by oxygen stoichiometry in the metal oxide, by adding dopant.
- To enhance the surface area of the electrode by inclusion of co-catalyst.
- By encapsulating noble metal doped metal oxides increases the capacitance value and stability.
- Different nanostructure of metal oxides is to be synthesized and the structure- property reaction will be studied.

4. Methodology

High quality noble metal doped metal oxide composite will be synthesized by hydrothermal techniques and the properties will be tailored using various parameters and different annealing temperature.

NAME: M.AMALANATHAN

Objectives:

To pursue a career with leading corporate of hi-tech environment with committed and dedicated people, which will help me to explore myself fully and realize my potential



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Address for Communication: -

M.Amalanathan
 S/O. J.Michael
 East kalpahaseri vilai
 Vavarai
 S.T.Mankad (Post)
 Kanniyakumari district
 Tamil nadu
 Pin : 629172

Ph : 04651-293178
 Mob : 9940347178
 : 7598864911

Personal Data

Date of Birth : 09-03-1984
 Age : 38
 Sex : Male
 Nationality : Indian
 Community : BC
 Religion : RC Christian

Education:

- Ph.D Physics (University of Kerala) (Regular)
- M.Phil Physics (St.Joseph's college,Trichy) (Regular)
- M.Sc Physics (St.Joseph's college,Trichy) (Regular)
- B.Sc Physics (Annai velankanni college,Tholayavattam)
- H.Sc (St.Francis H.S.S, Vavarai)
- S.S.L.C (St.Francis H.S.S, Vavarai)

Published Papers:

- ✚ Published 57 papers in International Journals
- ✚ Published 3 papers in National Journals
- ✚ Communicated 3 papers in International Journals
- ✚ Presented and Participated in 17 National and International Seminars/Conference

Languages known:

- Tamil (Reading, Writing, Speaking)
- English (Reading, Writing, Speaking)
- Malayalam (Speaking)

Award Received:

- ❖ Dr. APJ Abdul Kalam Award for Scientific Excellence - 2016

Research Experience:

- Reviewer in Spectrochimic Acta, Journal of Molecular Structure, Canadian Journal of Physics, Journal of Theoretical and Computational Chemist
- Two years working in UGC Major Project as a project assistant
- Organized Three National seminar
- Guided 4, Guiding 4 Ph.D Students and Guided 10 M.Phil Student

Other Experience:

- ❖ Research Guide in Manonmaniam Sundaranar University
- ❖ IQAC Co-ordinator and Assistant coordinator
- ❖ Staff association secretary 2 years
- ❖ Chief Superentendent and Additional Chief Superentendent
- ❖ Membership in Asian Journal of Physics
- ❖ Head in the Department of Physics, Nanjil Catholic College of Arts and Science
- ❖ Edited 2 ISBN books

Academic profile

Courses	Name of the Institution	Year of Passing	Board/ University	Marks Obtained	Maximum Marks	Percentage	Class
Ph.D	Mar Ivanios College Thiruvananthapuram	June 2012	University of Kerala	-	-	-	-
M.phil., Physics	St.Joseph's college (Autonomous), Trichy	Aug 2007	Bharathidasan University	313	400	82.80	I
M.Sc., Physics	St.Joseph's college (Autonomous), Trichy	April 2006	Bharathidasan University	1253	1700	68.7	I
B.Sc., Physics	Annai Velankanni college, Tholayavattam	Apr. 2004	Manonmanium Sundharanar University	1328	2000	66.4	I
H.Sc.,	St.Francis H.S.S., Vavarai	Apr. 2001	State Board	739	1200	61.58	I
S.S.L.C.,	St.Francis H.S.S., Vavarai	Apr. 1999	State Board	343	500	68.6	I

Teaching Experience

Sl.No	Name of the Institution	Period		Nature of Employment			Total Years
		From	To	Mode of Institution	Mode of Appointment	Teaching level	
1	Annai Velankanni College, Tholayavattam	13-07-2011	15-12-2016	Self-Finance	Regular	UG, PG, & M.Phil	5 Years 5 Months
2	Nanjil Catholic College of Arts and Science, Kaliyakkavilai	15-12-2016	Till Date	Self-Finance	Regular	UG, PG, M.Phil & Ph.D	4 Years 4 Months

Declaration

I here by declare that the above statements are true, complete and correct to the best of my knowledge and belief

Place: Vavarai

Yours Sincerely



(M. Amalanathan)

Date: 14-10 -2022

^ List of Publication

List of International Publication:

- 1. Theoretical and vibrational spectral investigation of sodium salt of Acenocoumarol**
Hubert Joe, Irena Kostova, C. Ravikumar, **M. Amalanathan** and S. Cinta Pinzaru
Journal of Raman Spectroscopy 40 (2009) 1033-1038. (ISSN: 1097-4555)
- 2. NBO analysis and vibrational spectra of 2,6-bis(p-methyl benzylidene cyclohexanone) using density functional theory**
L. Padmaja, **M. Amalanathan**, C. Ravikumar and I. Hubert Joe
Spectrochimica Acta Part A: 74 (2009) 349. (ISSN: 1386-1425)
- 3. Charge Transfer Interaction and Terahertz Studies of a Nonlinear Optical Material L-Glutamine Picrate: A DFT Study**
M. Amalanathan, I. Hubert Joe and S.S. Prabhu
Journal of Physical Chemistry A 114 (2010) 13055–13064. (ISSN: 1089-5639)
- 4. Density functional theory calculation and vibrational spectral analysis of 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one**
M. Amalanathan, I. Hubert Joe and Irena Kostova
Journal of Raman Spectroscopy 41(2010) 1076–1084. (ISSN: 1097-4555)
- 5. Molecular first order hyperpolarizability and vibrational spectral investigation of Warfarin Sodium**
Irena Kostova, **M. Amalanathan** and I. Hubert Joe
Chemical Physics 78 (2010) 88–102. (ISSN: 0301-0104)
- 6. Infrared and Raman spectra, vibrational assignment, NBO analysis and DFT calculations of 6-aminoflavone**
Y. Erdogdu, O. Unsalan, **M. Amalanathan** and I. Hubert Joe
Journal of Molecular Structure 980 (2010) 24-30. (ISSN: 0022-2860)
- 7. Molecular structure, vibrational spectra and nonlinear optical properties of L-Valine Hydrobromide: DFT study**
M. Amalanathan, I. Hubert Joe and V.K. Rastogi
Journal of Molecular Structure 985 (2011) 48-56. (ISSN: 0022-2860)

- 8. Vibrational and Terahertz spectral Investigation and nonlinear optical properties of L-Phenylalanine phenylalanium nitrate -A DFT study**
M. Amalanathan, I. Hubert Joe and V.K. Rastogi
Journal of Molecular Structure 1006 (2011) 513-526 . (ISSN: 0022-2860)
- 9. Density functional theory calculations and Vibrational spectral analysis of 3,5-(Dinitro benzoic acid)**
M. Amalanathan, I. Hubert Joe, M.A. Palafox, Satentra kumar, V.K. Rastogi
Spectrochimica Acta A 78 (2011) 437-1444. (ISSN: 1386-1425)
- 10. Intramolecular charge delocalization and nonlinear optical properties of push- pull chromophore 1-(4-N, N-dimethylaminopyridinium) acetic acid bromide monohydrate from vibrational spectra**
C. Jesintha John, M. Amalanathan, D.Sajan , K. Udaya Lakshmi and I. Hubert Joe
Spectrochimica Acta A78 (2011) 264-272. (ISSN: 1386-1425)
- 11. Vibrational spectra and first order hyperpolarizability studies of Dimethyl amino pyridinium 4-nitrophenolate 4-nitrophenol**
C. Jesintha John, M. Amalanathan, A.R.Twinkle, P. Srinivasan and I. Hubert Joe
Spectrochimica Acta Part A 81 (2011) 151-161. (ISSN: 1386-1425)
- 12. Analysis of Vibrational Spectra and Nonlinear Optical Properties of Organic Molecule L-Alaninium Formate**
C. Jesintha John, T.S. Xavier, M. Amalanathan, I. Hubert Joe and V.K. Rastogi
Spectrochimica Acta Part A 86 (2011) 174-180. (ISSN: 1386-1425)
- 13. Vibrational spectral analysis of nonlinear optical crystal L-Prolinium picrate: A density functional theory study**
Bismi Edwin, M. Amalanathan and I. Hubert Joe
Spectrochimica Acta 96 (2012) 10-17. (ISSN: 1386-1425)
- 14. Vibrational Spectral Investigation and Natural Bond Orbital analysis of anti-Rheumatoid drug Ethyl 4-nitrophenylacetate - DFT approach**
D.M. Suresh, M. Amalanathan, S. Sebastian, D. Sajan, I. Hubert Joe, V. Bena Jothy
Spectrochimica Acta (2012) 98 (2012) 413-422. (ISSN: 1386-1425)

- 15. Molecular structure, Normal Coordinate Analysis, Harmonic Vibrational frequencies, Natural Bond Orbital, TD-DFT calculations and biological activity analysis of antioxidant drug 7-hydroxycoumarin**
S. Sebastian, S. Sylvestre, D. Jayarajan, **M. Amalanathan**, K. Oudayakumar, T. Gnanapoongothai, T. Jayavarthan
Spectrochimica Acta 101 (2013) 370-381. (ISSN: 1386-1425)
- 16. FT-IR, FT-Raman, FT-NMR spectra and DFT simulations of 4-(4-Fluoro-phenyl)-1H-imidazole**
Y. Erdogdu, D. Manimaran, **M. Amalanathan** and I. Hubert Joe
Optics and Spectroscopy, 114, 2013, 525–536. (ISSN: 1562-6911)
- 17. Vibrational spectral investigation and molecular polarizability studies of NLO crystal Naphthalene Picrate for THZ application**
M. Amalanathan, V.K. Rastogi and I. Hubert Joe
Spectrochimica Acta 108, 2013, 256-267. (ISSN: 1386-1425)
- 18. Vibrational Spectra, Molecular Structure, Natural Bond Orbital, First Order Hyperpolarizability, TD-DFT and Thermodynamic analysis of 4-amino-3-hydroxy-1-naphthalenesulfonic acid by DFT approach**
S. Sebastian, S. Sylvestre, N. Sundaraganesan, **M. Amalanathan**, S. Ayyapan, K. Oudayakumar, B. Karthikeyan
Spectrochimica Acta 107(2013) 167-178. (ISSN: 1386-1425)
- 19. Vibrational Spectral Investigation and natural bond orbital analysis of Pharmaceutical compound 7-Amino-2,4-dimethylquinolinium formate- DFT approach**
D.M.Suresh, **M. Amalanathan**, S. Sebastian, D.Sajan, I. Hubert Joe and V.Bena Jothy, Ivan Nemeč
Spectrochimica Acta 115 (2013) 595-602. (ISSN: 1386-1425)
- 20. Normal coordinate analysis and Nonlinear Optical Response of cross-conjugated system 4,4-Dimethyl Benzophenone**
M. Amalanathan, T.S. Xavier, I. Hubert Joe and V.K. Rastogi
Spectrochimica Acta 116 (2013) 574-83. (ISSN: 1386-1425)
- 21. Molecular structure, vibrational spectral investigation and the confirmation analysis of 4-Methylesculetin molecule**
Y. Erdogdu, M. Guzel, M. T. Güllüoğlu, **M. Amalanathan**, S. Saglam, I. Hubert Joe
Optics and Spectroscopy, 116, 2013, 348–359. (ISSN: 1562-6911)

- 22. Studies on molecular structure, vibrational spectra and molecular Docking analysis of 3-Methyl-1,4-dioxo-1,4-dihydronaphthalen-2-yl 4-aminobenzoate**
D.M.Suresh , M. Amalanathan, I. Hubert Joe, V.Bena Jothy , and Yun-Peng Diao
Spectrochimica Acta 130(2014) 591-603. (ISSN: 1386-1425)
- 23. Vibrational Spectra (FT-IR and FT-Raman), Molecular Structure, Natural Bond Orbital, and TD-DFT analysis of L-Asparagine Monohydrate by Density Functional Theory approach**
S. Sylvestre, S. Sebastian, S. Edwin, M. Amalanathan, S. Ayyapan, T. Jayavarthanam, K. Oudayakumar, S. Solomon
Spectrochimica Acta 133 (2014) 190-200. (ISSN: 1386-1425)
- 24. Study on conformational stability, molecular structure, vibrational spectra, NBO, TD-DFT, HOMO and LUMO analysis of 3,5-dinitrosalicylic acid by DFT techniques**
S. Sebastian, S. Sylvestre, J. Jayabharathi, S. Ayyapan, M. Amalanathan, K. Oudayakumar, Ignatius A. Herman
Spectrochimica Acta 136 (2015) 1107-1118. (ISSN: 1386-1425)
- 25. FT-IR and FT-Raman spectral investigation and DFT Computations of Pharmaceutical Important Molecule: Ethyl 2-(4-Benzoyl-2,5-Dimethylphenoxy) Acetate**
D.M.Suresh, M. Amalanathan, I. Hubert Joe, V.Bena Jothy, S. Sebastian and S. Ayyapan
Pharmaceutica Analytica Acta 7 (2016) 1-9 (ISSN: 2153-2435)
- 26. FT-IR Molecular structure and Charge transfer contributions to nonlinear optical property of 2-Methyl-4-Nitroaniline: A DFT Study**
G.Femina Jasmine, M. Amalanathan, S.Dawn Dharma Roy
Journal of Molecular Structure 1112 (2016) 63-70. (ISSN: 0022-2860)
- 27. Infrared Spectral Investigations and Ab Initio Computations of Pharmacological Drug Goniofufurone Monoacetate**
Amalanathan M, Usha D, Hubert Joe I and Ajithabai MD
Pharmaceutica Analytica Acta 7:8 (2016) 1-7(ISSN: 2153-2435)
- 28. Comparative studies on Molecular structure, Vibrational Spectra and Hyperpolarizabilities of NLO Chromophore Ethyl 4-Dimethylaminobenzoate**
M. Amalanathan, Femina Jasmine, S.Dawn Dharma Roy
Journal of Molecular Structure 1141 (2017) 400-416. (ISSN: 0022-2860)
- 29. Structure activity relationship, vibrational spectral investigation and molecular docking analysis of anti-neuronal drug 4-(2-Aminoethyl) Morpholine**

Bismi Edwin, **M. Amalanathan**, Ridhima Chadha, Nandita Maiti, Sudhir Kapoor
and I. Hubert Joe

Journal of Molecular Structure 1148 (2017) 459-470. (ISSN: 0022-2860)

30. Quantum chemical computations on structural elucidation, homo-lumo and NLO analysis of 5-chloro-2-hydroxypyridine

D.Usha , **M.Amalanathan**, H.Marshan Robert

International Journal of Engineering Science and Innovative Technology (IJESIT)
7(2018) 67-75 (ISSN: 2319-5967)

31. FT-Raman and FTIR Spectroscopic Investigation, First Hyper Polarizability, Homo

Lumo Analysis of P-Fluorobenzonitrile (PFBN)

S. Aslin, D. Usha, **M.Amalnathan**

International Journal of Science and Research (IJSR) 7, 2018, 1144-1149 (ISSN: 2319-7064)

32. Identification of Anticoagulants Activity using Structural, Spectroscopic and Molecular Docking Analysis of 6-Methyl Coumarin

Loice Bessylet, C.Gnana Sambandam, **M.Amalanathan** and D.Usha

International Journal of Research and Analytical Reviews (IJRAR) 5, 2018, 652-665 (E-ISSN 2348-1269, P- ISSN 2349-5138)

33. Terahertz studies of some nonlinear optical material

M. Amalanathan and D.Usha

International Journal of Research and Analytical Reviews (IJRAR) 5, 2018, 399-407 (E-ISSN 2348-1269, P- ISSN 2349-5138)

34. Identification and Analysis of anticancer and antimicrobial activity of 1-(p-toluenesulfonyl)imidazole using theoretical and experimental analysis

G. Golding Sheeba , D. Usha, **M. Amalanathan** , and M. Sony Michael Mary

Journal of Theoretical and Experimental Biology, 13 (1 and 2): 111-123, 2018 (ISSN: 0972-9720)

35. Structural Analysis, Vibrational Spectral Investigation and Charge Transfer Interactions of 5-ChloroSalicylaldehyde by Experimental and Theoretical Investigations

B. Queen Sheeba, C. Besky Job, M. Sony Michael Mary, **M. Amalanathan**, R. Racil Jeya Geetha

Journal of Theoretical and Experimental Biology 13 (1 and 2): 125-134, 2018,
(ISSN: 0972-9720)

- 36. Molecular Docking, Harshiefield Surface And Reactivity And Hyperpolarizability Analysis Of 3-(2-Bromoacetyl)-2h-Chromen-2-One**
 S.Loice Bessylet, C.Gnana Sampantham, **M.Amalanathan**, D.Usha and M.Sony Michael Mary **Journal of Emerging Technologies and Innovative Research 6, 2019, 211-225 (ISSN-2349-5162)**
- 37. Investigations On The Optical And Mechanical Properties Of Non Linear Optical Creatininium Phosphite Single Crystal**
 Sindhusa S, Padma C M, **Amalanathan M**
International Journal of Scientific & Technology Research 8, 2019, 1676-1682 (ISSN 2277-8616)
- 38. Spectroscopic (UV, NMR) Investigation, Anti- Microbial And Molecular Docking Analysis Of 2,3- Dichloronaphthalene-1,4-Dione**
 Marshan Robert H, **Amalanathan M**, Usha D, Racil Jeya Geetha R, Sony Michael Mary M
International Journal of Scientific & Technology Research 8, 2019, 2127-2134 (ISSN 2277-8616)
- 39. Vibrational spectral, density functional theory and molecular docking analysis on 4-nitrobenzohydrazide**
 H. Marshan Robert , D Usha , M. Amalanathan , R. Racil Jeya Geetha a, M. Sony Michael Mary
Journal of Molecular Structure 1223 (2020) 128948 (ISSN: 0022-2860).
- 40. Vibrational Spectroscopic Analysis of 10H-Dibenzo[b,e][2,4]oxazine and nvestigate their Structural Reactivity by DFT Computations and Molecular Docking Analysis**
 M. Latha Beatrice, S. Mary Delphine, M. Amalanathan And H. Marshan Robert
Asian Journal of Chemistry; Vol. 32, No. 10 (2020), 2475-2485 (ISSN: 0970-7077)
- 41. Structural, morphological, and optical properties of country egg shell derived activated carbon for dye removal**
 M. Aravind, **M Amalanathan**
Materials Today: Proceedings Volume 43, Part 2, 2021, Pages 1491-1495 ISSN: 2214 -7853
- 42. A Spectroscopic (IR, Raman, UV, NMR) Characterization and investigation of reactive properties of pyrazine-2-carboxamide by anti-bacterial, anti-mycobacterial, fukui function, molecular docking and DFT calculations**

H. MarshanRobert, D.Usha, **M.Amalanathan**, R. Racil JeyaGeetha, M. Sony Michael Mary

Chemical Data Collections Volume 30, December 2020, 100583 ISSN: 2405-8300

- 43. Identification of structure activity relation of a synthetic drug 2,6-pyridine dicarbonitrile using experimental and theoretical investigation**
G.Golding Sheeba, D.Usha, **M.Amalanathan**, M.Sony Michael Mary
Wutan Huatan Jisuan Jishu Volume XVI, Issue XI, November/2020 Page:89-113
ISSN:1001-1749
- 44. Quantum chemical computation, vibrational analysis, molecular structure, nonlinear optical studies of 4-(Diethylamino)salicylaldehyde**
B.Queen Sheeba, , C. Besky Job, M.Sony Michael Mary, **M.Amalanathan**
Wutan Huatan Jisuan Jishu Volume XVII, Issue I, January 2021Page:268-295
ISSN:1001-1749
- 45. Critical green routing synthesis of silver NPs using jasmine flower extract for biological activities and photocatalytical degradation of methylene blue Author links open overlay panel**
M.Aravind, AwaisAhmad, IkramAhmad, **M.Amalanathan**, KhalidaNaseem, Sony M. MichaelMary, C.Parvathiraja, ShahidHussaingTahan, SaadAlgarnihMuhamma, Pervaiz, Muhamma, Zubair,
Journal of Environmental Chemical Engineering Available online 9 December 2020, 104877 In Press, ISSN: 2213-3437
- 46. Synthesis of TiO₂ nanoparticles by chemical and green synthesis methods and their multifaceted properties**
M. Aravind M. **Amalanathan**¹ and M. Sony Michael Mary
SN Applied Sciences (2021) 3:409
- 47. Molecular Structure, Spectroscopic, Fukui function, RDG, Anti-microbial and Molecular Docking analysis of higher concentration Star Anise content compound Methyl 4-methoxybenzoate -DFT Study**
Latha Beatrice, S.Mary Delphine, **M.Amalanathan**, M.Sony Michael Mary, H.Marshan Robert, K.Thibi Mol
Journal of Molecular Structure 1238, 2021, 130381
- 48. Spectroscopic Profiling (FT-IR, FT-Raman), Vibrational Assignments, Wave Function (ESP, ELF, LOL) Analyses and Fukui Function Study of N-Benzylidene Aniline (NBAN)**
S.Aslin, D.Usha, **M.Amalanathan**
Wutan Huatan Jisuan Jishu Volume XVII, Issue V, May/2021, 17-37

- 49. Molecular Structure, Vibrational Spectroscopic, Frontier Molecular orbital and Natural Bond Orbital analysis of Anti-cancer drug 6-Chloro-3- Pyridine Carbonitrile**
G.Golding Sheeba,b, D.Usha , **M.Amalanathan**, M.Sony Michael Mary,
H.MarshanRobert
Spectroscopy Letters 2021, VOL. 54, No. 6, 419–436
- 50. Structural and vibrational spectral investigation on the identification of Non Linear Optical properties and wave function analyses (Electrostatic potential, Electron localization Function, Localized Orbital Locator) of 3-Ethoxy Salicilaldehyde**
B.Queen Sheeba, M.Sony Michael Mary, M.Amalanathan, C. Besky Job
Molecular Simulation Vol. 47, 2021, Pages 1217-1233 |
- 51. Enhanced photocatalytic and biological observations of green synthesized Activated carbon, Activated carbon doped Silver and Activated carbon/Silver/Titanium dioxide nanocomposites**
Aravind.M, **Amalanathan. M**, Sony Michael Mary.M, C.Parvathiraja, Asma A.
Alothman, Saikh M. Wabaidur, Mohammad Ataul Islam
Journal of Inorganic and Organometallic Polymers and Materials 32, (2022) pages267–279.
- 52. Synthesis, Structural, Spectroscopic and Docking Studies on (E)-1-Ferrocenyl-3-phenyl-propen-1-one by Density Functional Theory**
M.Amalanathan, M.Sony Michael Mary, M.Latha Beatriced, S.Mary Delphine ,
H.Marshan Robert, A.R.Twinkle, Zoran Ratkovic, Y.Samson
Molecular Simulation Vol. 48, 2022, 387–402
- 53. Synthesis of silver nanoparticles using Syzygium malaccense fruit extract and evaluation of their catalytic activity and antibacterial properties**
Herbin Basalius H, Aravind. **M, Amalanathan** , Sony Michael Mary. M4, Maria Lenin.
M, C. Parvathiraja, Masoom Raza Siddiqui, Saikh Mohammad Wabaidur, Md Ataul
Islam.
Journal of Inorganic and Organometallic Polymers and Materials 32, pages1103–1115 (2022)
- 54. Synthesis, Structural, Spectroscopic investigation on 3-(2-Hydroxyphenyl)-1-ferrocenylpropan-1-one by Density Functional Theory**
M.Sony Michael Mary, R. Racil Jeya Geetha, **M.Amalanathan**, A.R.Twinkle
Zoran Ratkovic
Wutan Huatan Jisuan Jishu Volume Volume XVIII, Issue I, January/2022, 114-143
- 55. Structure Activity Relationship, Topological Analysis and Molecular Docking Analysis of Pharmaceutical Molecule 2356 -Tetrafluoro-4-Pyridine Carbonitrile**
M. Sony Michael Mary, R. Racil Jeya Geetha , **M. Amalanathan** and R. Benisha

Journal of Pharmaceutical Research International 33(60B): 2886-2902, 2021

56. Spectroscopic and Topological analysis and in vitro antimicrobial activity of Phenothiazine

M.Sony Michael Marya, R. RacilJeya Geetha, M.Amalanathan, H.Marshan Robertd, A.Ronaldo Anuff

Spectroscopy Letters 55, 2022 - Issue 3, 212-228

57. Catharanthus roseus leaf extract mediated Ag-MgO nanocatalyst for Photocatalytic degradation of congo red dye and their antibacterial activity

R.Benisha, M.Amalanathan, M.Aravind, M Sony MichelMary, AwaisAhmad, SobiaTabassum, Wahidah H.Al-Qahtani, IkramAhmad

Journal of Molecular Structure 2022, 133005

58. Green synthesis of nano silver using Syzygium samarangense flower extract for multifaceted applications in biomedical and photocatalytic degradation of Methylene Blue.

Herbin Basalius, Aravind, Amalanathan M, Sony Michael Mary, Maria Lenin, Parvathiraja, Masoom Raza Siddiqui, Saikh Mohammad Wabaidur, Mohammad Ataul Islam.

Applied Nano Science (2022)

List of National Publication:

1) Density functional theory calculation and vibrational spectroscopic study of p-Hydroxy benzoicacid dimer

V. Bena Jothy, M Amalanathan, V.K Rastogi, I. Hubert Joe

Asian Journal of Physics, Vol. 24 (2015) 00-00.

<http://asianjournalofphysics.in/content2/vol-24-2015/vol-24-no-5>

2) Molecular structure and spectroscopic properties of L-Histidinium dihydrogen monophosphate monohydrate: FT-Raman, FT-IR ,SERS and DFT computations

V. Bena Jothy, M. Amalanathan, V.K. Rastogi and I. Hubert Joe

Asian journal of spectroscopy (2012) 207-224. (ISSN: 0971-9237)

3) Molecular Structure, Vibrational spectra and theoretical studies of Bis Glycyl glycinium Oxalate

V. Bena Jothy, M. Amalanathan, D. Sajan, V.K. Rastogi and I. Hubert Joe

Asian journal of spectroscopy 2010 87-105. ((ISSN: 0971-9237)

Others:

1. **Spectroscopic, Frontier Orbital's and NBO analysis of 3-Pyridinecarboxylic acid hydrazide - DFT method**
H.MarshanRobert , D.Usha, M.Amalanathan
Studies in Indian Place Names (UGC Care) 40, 2020, 1041-1050 (ISSN: 2394-3114)
2. **Structural and Spectral Analysis of Picric Acid 2 Nitroaniline A DFT Approach**
G.Bagavathi Sankar , D.Usha, M. Amalanathan
Studies in Indian Place Names (UGC Care) 40, 2020, 1197-1203 (ISSN: 2394-3114)
3. **Structural analysis and electronic transfer investigation of a anticancer drug 2,6-pyridinedicarbonitrile**
G.Golding Sheeba, D.Usha, M.Amalanathan, M.Sony Michael Mary
Studies in Indian Place Names (UGC Care) 40, 2020, 1070-1074 (ISSN: 2394-3114).

Special issue Papers

1. **Quantum Chemical computations and spectral Investigation of 2, 6-Bis (P-Methyl Benzylidene Cyclohexanone) M. Amalanathan, C. Ravikuma, L. Padmaja, V.S. Jayakumar and I. Hubert Joe**
American Institute of Physics 978-0-7354-0606-3/08
2. **Growth and vibrational spectroscopic Investigations of NLO crystal Barium Thiourea Chloride M. Meena Kumari, C. Ravikumar, M. Amalanathan, V. S. Jayakumar and I. Hubert Joe**
American Institute of Physics 978-0-7354-0606-3/08
3. **Natural bond orbital analysis and vibrational spectral investigation of 3,5-(dinitro benzoic acid)**
Rastogi, V.K., Amalanathan, M., Hubert Joe, I.
(2010) AIP Conference Proceedings 1267 PP. 621 - 622 doi: 10.1063/1.3482712
4. **Terahertz and FT-IR spectral analysis of a NLO material L-glutamine picrate: A DFT study**
Amalanathan, M., Joe, I.H. (2010) AIP Conference Proceedings 1267 PP. 1192 - 1193 doi: 10.1063/1.3482375
5. **Polariton dispersion of a quantum wire superlattice system**
K. S. Joseph Wilson, M. Amalanathan, V. Revathy and S. Maria Lenin
AIP Conf. Proc. 1665, 090037 (2015); <http://dx.doi.org/10.1063/1.4918017>

Conference Publication:

1. **DFT Computation on Molecular structure and Vibrational Spectral Investigations of NLO Chromophore 2-Amino-3-Nitro Pyridine**
G.Femina Jasmine, M. Amalanathan and S.Dawn Dharma Roy

UGC sponsored National seminar on Emerging Trends in Theoretical and Experimental Physics, 8th & 9th January 2015, Organized by Department of Physics, Sree Ayyappa College for Women, Chunkankadai, (ISBN 978-81-9-2-308-2-4).

2. Studies on Molecular structure, Vibrational Spectral analysis and Hyperpolarizabilities study of 2-Amino-3-Nitro Pyridine
G.Femina Jasmine, **M. Amalanathan** and S.Dawn Dharma Roy
National Seminar on New Materials and Nanotechnology (NSNMN-2015) 1th February 2015 Organized by Department of Science and Department of Electronics and Communication Engineering, Heera College of Engineering and Technology, Thiruvananthapuram.
3. DFT computation on Molecular Structure & Vibrational Spectral Investigations of NLO Chromophore 2-Methyl-4-Nitro Aniline
G.Femina Jasmine, **M. Amalanathan** and S.Dawn Dharma Roy
UGC Sponsored National Conference on Emerging Trends in Applied Physics (NCETAP-2015) 19th & 20th February 2015 organized by Department of Physics, Lekshmpuram College of Arts and Science, Neyyoor.
4. Studies on Molecular structure, Vibrational Spectra and Hyperpolarizabilities of NLO Chromophore Ethyl 4-Dimethylaminobenzoate,
G.Femina Jasmine, C.Sindhiya, **M. Amalanathan** and S.Dawn Dharma Roy
National Conference on Technologically Advanced Materials (NCTAM-2016) on 6th September 2016 organized by Department of Physics, Muslim Arts college, Thiruvithancode (ISSN:2349-6886).
5. Nonlinear Optical Response of cross-conjugated system 4,4-Dimethyl Benzophenone
M. Amalanathan, T.S. Xavier, I. Hubert Joe and V.K. Rastogi
National Conference on Exploring the Frontier of Vibrational Spectroscopy (EXFOVIS-2011) (Sept 1-2, 2011) at Women's Christian College .
6. Charge transfer interaction and vibrational spectral investigation of a nonlinear optical material L-Glutamine Picrate: A DFT study
M. Amalanathan and I. Hubert Joe
98th Indian Science congress (ISCA 2011) (Jan 3-7, 2010) at SRM University, Chennai.
7. Density functional theoretical modeling and HOMO-LUMO energy of p- Hydroxy benzoic acid dimer
V. Bena Jothy, **M. Amalanathan** and I. Hubert Joe

98th Indian Science congress (ISCA 2011) (Jan 3-7, 2010) at SRM University, Chennai.

8. Vibrational Spectroscopic studies and Natural Bond Orbital Analysis of non linear push-pull chromophore 1-(4-N, Ndimethylaminopyridinium) acetic acid bromide monohydrat
C. Jesintha John, **M. Amalanathan** and I. Hubert Joe
International Conference on Recent Frontiers in Applied Spectroscopy (ICORFAS-2010) 22nd – 24th September, 2010 at Annamalai University Chithambaram.
9. Quantum Chemical Methods First order hyperpolarizability study and vibrational spectral investigation of the NLO crystal L-Valine Hydrogen chloride
A.R. Twinkle, **M. Amalanathan** and I. Hubert Joe
International Conference on Recent Frontiers in Applied Spectroscopy (ICORFAS-2010) 22nd – 24th September, 2010 at Annamalai University Chithambaram.
10. Density functional theory and natural bond orbital of p- Hydroxy benzoic acid dimer
V. Bena Jothy, **M. Amalanathan** and I. Hubert Joe
International Conference on Recent Frontiers in Applied Spectroscopy (ICORFAS-2010) 22nd – 24th September, 2010 at Annamalai University Chithambaram.
11. Natural Bond Orbital Analysis and Vibrational Spectral Investigation of 3,5-(Dinitro benzoic acid)
V.K. Rastogi, **M. Amalanathan** and I. Hubert Joe
XXII International Conference on Raman Spectroscopy (ICORS 2010) (August 8 – 13, 2010) at Boston, USA. (Accepted).
12. Teraertz and FT-IR spectral Analysis of NLO material L-Glutamine Picrate: A DFT study
M. Amalanathan and I. Hubert Joe
XXII International Conference on Raman Spectroscopy (ICORS 2010)(August 8 – 13, 2010) at Boston, USA. (Accepted).
13. FT-IR analysis and First order hyperpolarizability study of NLO crystal Naphthalene picrate
M. Amalanathan and I. Hubert Joe
Ninth DAE-BRNS National Laser Symposium-(NLS-09) (Jan 13-16, 2010) at Bhabha Atomic Research Centre (BARC), Mumbai.
14. FT-IR spectral investigationa and Natural bond orbital analysis of Naphthalene picrate
M. Amalanathan and I. Hubert Joe
National Seminar on Photonic Materials (NSPM 2009) (February 26-28) Kerala University Trivandrum.
15. FT-IR Spectral Investigation and NBO analysis of Nonlinear material L-Prolinium Picrate
Bismi Edwin, **M. Amalanathan**, C. Ravikumar and I. Hubert Joe
Eight DAE-BRNS National Laser Symposium -(NLS-08) (Jan 7-10, 2009) at Laser Science and Technology Centre (LASTEC) Delhi.

16. Quantum chemical computational hyperpolarizability studies of Cyclohexanone derivatives
I. Hubert Joe, **M. Amalanathan**, C. Ravikumar and V.K. Rastogi
XXI International Conference on Raman Spectroscopy ICORS 2008 (17th - 22nd August 2008) at Uxbridge, West London, UK.
17. Quantum chemical computations and spectral investigation of 2,6-Bis(p-methyl bezylene cyclohexanone)
M. Amalanathan, C. Ravikumar, L. Padmaja, V.S. Jayakumar and I. Hubert Joe
International conference on perspective in vibrational spectroscopy (ICOPVS2008)(Feb 24-28, 2008) at Mascot Hotel, Trivandrum.
18. Growth and vibrational spectroscopic investigation of NLO crystal Barium Thiourea Chloride
M. Meena Kumari, C. Ravikumar, **M. Amalanathan**, V.S. Jayakumar and I. Hubert Joe
International conference on perspective in vibrational spectroscopy (ICOPVS2008) (Feb 24-28, 2008) at Mascot Hotel, Trivandrum.



Nanjil Catholic College of Arts & Science

NEDUMCODE, KALIYAKKAVILAI - 629 153,
K.K.DISTRICT, TAMIL NADU

(Accredited with 'B' by NAAC)
(Approved by UGC under section 2(f) & 12(B) status)

Phone : 04651-244788, Mobile : 8903013368, E-mail : nanjilccas@gmail.com, Website : www.nccas.edu.in

DECLARATION

1. As a Principal Investigator (PI), I understand that it is my responsibility to carry out the Collaborative Research Scheme (CRS) project work as per rules and regulations of UGC-DAE CSR.
2. The scientific program of the CRS will be carried out jointly by me and a Principal Collaborator at UGC-DAE CSR. All scientific publications resulting from the CRS, will be communicated with each other's consent. Technical and scientific assistance from UGC-DAE CSR and DAE personnel will be acknowledged, either in the acknowledgements or in authorship.
3. Financial support received from UGC-DAE CSR will be acknowledged explicitly in all publications. Please add following sentence in the acknowledgement section of the manuscript, **““This work was partially/fully carried out using the facilities of UGC-DAE CSR”**
4. Progress reports, extension requests, conclusion documents, etc., will be submitted by me to the UGC-DAE CSR with the consent of the Principal Collaborator.
5. Copies of the publications, thesis, etc., resulting from the CRS will be sent to UGC-DAE CSR.

Place:Kaliyakkavilai
Date:14-10-2022



Signature of Principal Investigator

Dr. M. AMALANATHAN
Head
Dept of Physics & Research Centre
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153

Signature and Seal of Head of Department/University

Dr. A. Meenakshi Sundara Rajan
PRINCIPAL

Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153

Account Name : NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE
Account Number : 10270100217857
Bank Name :FEDERAL BANK
IFSC Code :FDRL0001027
Branch Name :PARASALA

FEDERAL BANK

YOUR PERFECT BANKING PARTNER

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THE FEDERAL BANK LTD
Br: PARASSALA
SIVASAKTHI BUILDING
INCHIVILLA PARASSALA
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KERALA - 695502
Phone: 2202031
Email: prs@federalbank.co.in
MICR Code: 695049302
IFSC : FDRLO001027
Toll Free number: 1800 425 1199

EXERCISE YOUR NOMINATION FACILITY

Account Type : Savings Account
Account Number : 10270100217857
Customer ID : 24069359
Name : M/S NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
Address : NEDUMKODU KALIAKAVILAI
KANYAKUMARI
KANYA KUMARI-629153, INDIA
Communication address last updated on : 27-05-2020
Operational Instruction : JOINT
Date of Openings : 06-09-2017
Scheme Name : SB FREEDOM
Account activation date : 06-09-2017
(For Pre-opened kits)

Authorised Signatory :

For details, please contact any of our branches or
visit www.federalbank.co.in

Deposits with our Bank are insured by DICGC upto a maximum of Rs.5,00,000 per depositor, subject to amendments by DICGC from time to time

ABBREVIATIONS USED IN THE PASSBOOK		
Sl No.	Abbreviation	Expansion
1	AWB	Any Where Banking
2	CHQ	Cheque
3	Coll.	Collection
4	Commn.	Commission
5	Cr.	Credit
6	DD	Demand Draft
7	Dr.	Debit
8	DW	Dividend Warrant
9	ECS	Electronic Clearing Service
10	FBxxx	Standing Instruction
11	FCCP	Foreign Currency Cheque Purchased
12	IBC	Inward Bills for Collection
13	IBP	Inward Bills under LC
14	ICBP	Inland Clean Bills Purchased
15	IDBP	Inland Documentary Bills Purchased
16	Inst.	Instrument
17	Int.	Interest
18	IO	Interest Outflow
19	LCC	Local Cheque for Collection
20	LCP	Local Cheque Purchased
21	DBC	Outward Bills for Collection
22	Pd.	Paid
23	POS Sur.	Point of Sale Surcharge
24	RTN	Return
25	Tran.	Transaction
26	Trf.	Transfer

B513B

From

Dr.M.Amalanathan
Principal Investigator
Project No: CRS/2022-23/01/662
UGC-DAE CSR Project
Department of Physics
Nanjil Catholic College of Arts and Science
Kaliyakkavilai

To

The Secretary
Nanjil Catholic College of Arts and Science
Kaliyakkavilai

Through

The Principal

Respected Father,

Sub: Requesting to release the fund sanctioned to the project CRS/2022-23/01/662 UGC-DAE CSR Project Reg:-

I am served as a principal investigator of the project (CRS/2022-23/01/662 UGC-DAE CSR Project) entitled "**Synthesis of noble metal doped/transition metal oxide nanostructured composite for super capacitor electrode**". An amount Rs.45000 was sanctioned by UGC for the consumable and contingency for the academic year 2022-23 and it was transferred to our college account on 08-02-2024 from UGC-DAE consortium. I request you to release the money for the implementation of the project successfully. Herewith I am enclosed the fund sanctioned letter and Proposal copy.

Thanking You

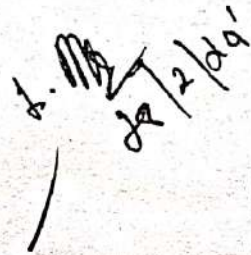
Kaliyakkavilai

26-02-2024

Yours Sincerely

(Dr.M.Amalanathan)

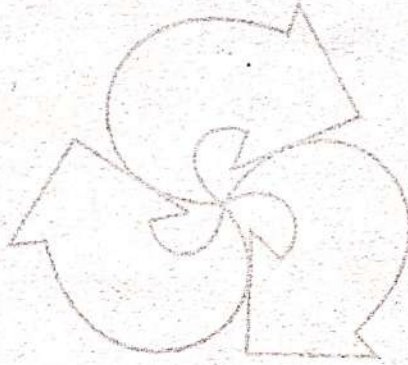

28/2/24


28/2/24

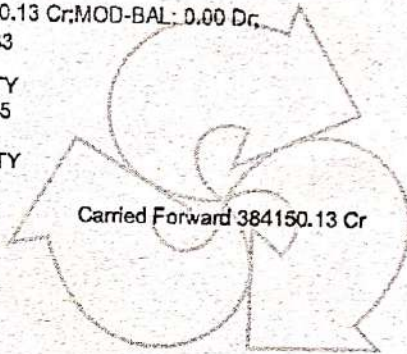
खाता सं Account No



तारीख Date	विवरण Particulars	चेक सं Chq. No.	आहरण Withdrawals	जमा Deposits	शेष Balance	सक्षिप हस्ताक्षर Initials	गृहक के प्रयोग हेतु For Customer Use
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09/02/24	NEFT/RBIS/RBI0402459007036 / Co/				45000.00		379480.13
09/02/24	FRM 94961000123						
09/02/24	UNCL-AMT: 0.00 CLR-BAL: 379480.13 Cr,MOD-BAL: 0.00 Dr.						
13/02/24	INT TRF FRM 00000006859097183 FRM 06859097183 THE REGISTRAR MS UNIVERSITY				4046.00		383526.13
24/02/24	INT TRF FRM 00000006530834745 FRM 06530834745 THE REGISTRAR M S UNIVERSITY				624.00		384150.13



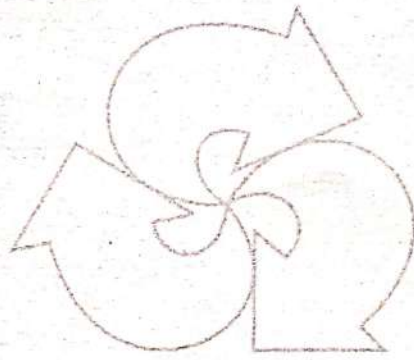
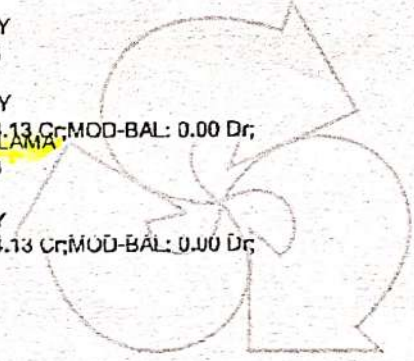
Carried Forward 384150.13 Cr

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खाता सं Account No

Brought Forward 384150.13 Cr

Date	Particulars	Chq. No.	आहरण Withdrawals	जमा Deposits	शेष Balance	संक्षिप्त प्रारंभ Initials	ग्राहक के लिए For Customer Use
24/02/24	INT TRF FRM 00000006530835422					624.00	384774.13
	THE REGISTRAR M S UNIVERSITY						
24/02/24	INT TRF FRM 00000006530835818					1250.00	386648.13
	THE REGISTRAR M S UNIVERSITY						
06/03/24	UNCL-AMT: 0.00 CLR-BAL: 386648.13 Cr; MOD-BAL: 0.00 Dr;				45000.00		341648.13
13/03/24	INT TRF FRM 00000006859097183					4046.00	345694.13
	THE REGISTRAR MS UNIVERSITY						
13/03/24	UNCL-AMT: 0.00 CLR-BAL: 345694.13 Cr; MOD-BAL: 0.00 Dr;						




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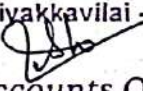
Nanjil Catholic College of Arts and Science- Kaliyakkavilai

Statement of Accounts

CRS Project CRS/2022-23/01/662

Opening Balance: Rs.45000.00				
Income item	Amount	Expenditures	Date	Amount
Contingency	45000.00	SEM-EDS Analysis	10-11-2023	1947.00
		SEM-EDS Analysis	04-01-2024	6000.00
		SEM-EDS Analysis	20-10-2023	4000.00
		Chemicals	05-12-2023	2700.00
		Chemicals	15-12-2023	5697.00
		SEM-EDS Analysis		1770.00
		Chemicals	02-07-2023	12187.54
		Chemicals	03-09-2023	4752.00
		UV-Spectrum	18-12-2023	2000.00
		Miscellaneous		446.66
			Total Expanse	45000.00
			Balance:	0.00


Rev. Fr. Dr. M. ECKERMBERG MICHAEL
Secretary M.B.A., Ph.D
Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153.
Kanyakumari District, Tamilnadu, India.


Nanjil Catholic College of Arts & Science
Kaliyakkavilai - 629 153
Accounts Officer

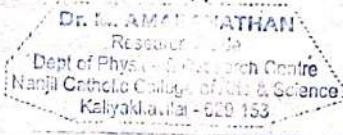


UTILISATION CERTIFICATE

Certified That out of Rs.45000.00 of grants-in-aid sanctioned during the year 2022-23 in favour of **Dr.M.Amalanathan (PI, Project Number: CRS/2022-23/01/662)** under UGC-DAE Consotrium of Scientific Research letter/Order No.CRS/2022-23/01/662 dated 08-02-2024 has been utilised for the purpose of execution of the project for which it was sanctioned and that the balance of Rs.0.00 remainig unutilised at the end of the year has been surrendered to the UGC-DAE Consotrium of Scientific Research (Vide DD No Nil Dated Nil) will be adjusted towards the grants-in-aid payable during the next year i.e. _____

(Principal Investigator)

Date : 19/3/24



Finance Officer
Nanjil Catholic College of Arts & Science
Kalyakavilal - 629 153

Accounts Officer

Institute

Rev. Fr. Dr. M. ECKERMENS MICHAEL
Secretary M.B.A., Ph.D
Nanjil Catholic College of Arts & Science
Kalyakavilal - 629 153,
Kanyakumari District, Tamilnadu, India.

Date :

(To be filled by UGC-DAE CSR)

Certified that I have satisfied that the conditions on which the grants-in-aid ws sanctioned have been fulfilled/are being fulfilled and that I have excercised the following checks to see that the money was actually utilised for the purpose for which it

Kinds of Checks exercised.

- 1
- 2
- 3
- 4
- 5



Signature : _____

Designation: _____

Date : _____

seal.



TAMILNADU COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)

Directorate of Technical Education Campus, Chennai – 600 025
Ph : 044 -2230 1428 www.tanscst.tn.gov.in Email: ms.tanscst@nic.in

Prof. Dr. S. Vincent, D.Sc., PhD., MNASc, FNABS, FRSB(Lon)
Member Secretary

01.10.2024

Lr.No.TNSCST/SPS 2023-2024/ 3106A /01

To

The Principal
Nanjil Catholic College of Arts and Science
Kanyakumari-629153

Sir/Madam,

Sub: TNSCST – Student Project Scheme (2023-2024) – approval intimation–grant release- Reg.

With respect to the above scheme, the list of project(s) approved by the State Council is enclosed, along with the terms and conditions. Guides are requested to adhere to these terms and conditions, including the timely submission of the Utilization Certificate (UC) and the seminar paper on or before 25.10.2024.

We trust that your students have successfully completed the project. Please inform the guides to submit the Utilization Certificate and the seminar paper in accordance with the terms and conditions specified in items 5 and 6. Kindly note that the grant will be released only upon receipt of both the UC and the seminar paper. Additionally, provide the institution's bank details (Account holder name, Account Number, IFSC code, and Branch name) to facilitate the transfer of the grant via NEFT. The grant should then be promptly disbursed to the concerned students through their respective guides.

Thanking you,

Yours faithfully


Member Secretary

- Encl: a) List of the approved SPS Projects 2023-24
b) Terms & Conditions (T&C)
c) Format of Utilization Certificate (UC)
d) Model Seminar Paper (SP)

Principal
[Signature]
1/10/24

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE Campus, Chennai- 25

Student Project Scheme 2023-24

List of Approved Project(s)

S.No	Guide Name and Institutional Address	Title of the Project	Students Name	Project Code	Head of the Institution	Grant Amount
1	Dr.M.Amalanathan, Associate Professor, Dept. of Physics, Nanjil Catholic College of Arts and Science, Kanyakumari-629153	Identification and analysis of therapeutic targets for SARS-CoV-2 and discovery of potential drugs by experimental and computational methods	Abith. M.S, Ashilin Star. S.L, Lekha R.S	PS-294	The Principal	Rs 7500
					Total	Rs 7500

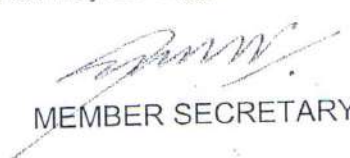
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE Campus, Chennai-600 025

STUDENT PROJECT SCHEME 2023-2024

Terms and Conditions of the grant

1. The project team **SHOULD NOT** change the topic of the project and should not deviate from the objectives of the sanctioned proposal. In the event of any such changes, sponsoring will be treated as cancelled.
2. Every sanctioned project is allotted with a Project code Number. Please refer this number while corresponding with TNSCST.
3. The project sanction letter will be sent to the Principal/Registrar/Dean of the institution with a copy to the Project guide.
4. The sanctioned completed project's, Utilization Certificate (UC) and seminar paper should be reached to 'The Member Secretary, Tamilnadu State Council for Science and Technology, DOTE Campus, Chennai-600 025' on or before 25th October 2024.
5. The Utilization Certificate should be signed by the Guide, HOD and Principal/Registrar/Dean with official **seal** as the case may be.
6. For the completed project, 2 pages seminar paper (500 words, Times New Roman, 12 font size, single column, margins left- 2.5cm, right-2cm, top-2cm & bottom- 2cm, 1.5 line space in Word format without any figures, tables & references) should be submitted/uploaded in the council website (<https://forms.gle/YYzjWfkSWEGGEcE16>) along with a scanned copy of the Utilization Certificate (PDF file) and Institutional Bank account details.
7. The institution heads informed to collect all the sanctioned project's the utilization certificate (s), seminar paper and institution bank details and send to the council address at the earliest.
8. The seminar paper will be included in the form of Proceedings which will be brought out during Seminar cum Exhibition, only for those who submit the **UC**.
9. If the guide wishes to leave the Institution where the project is based, the Institute/guide will inform the same to the Council and in consultation with Council, evolve steps to ensure successful completion of the project, before relieving the guide.
10. The Council reserves the right to order verification/audit of accounts by any Officer authorized by it. The bills and accounts shall be kept safely.
11. Students/faculties are encouraged to publish the research papers emerging out of the project work in peer reviewed Journals.
12. They should acknowledge the Council in reports and technical/scientific papers publishing based on the research work done under the project.
13. If the results of research are to be legally protected by way of patent/copy rights etc. the results should not be published in any form without action being taken to secure legal protection for the research results.
14. The state council encourages the students/faculties, who want to protect the results/invention created out of the project by getting patents through its Patent Information Centre free of cost.
15. The knowledge generated from the project will be the property of TNSCST and must be appropriately acknowledged. Any transfer of technology developed through the project will be conducted in consultation with the Council.
16. The recipient organization shall comply, with such other conditions as may be suggested in the 'guidelines' issued in this regard from time to time.


MEMBER SECRETARY

STUDENT PROJECT SCHEME 2023-2024
UTILIZATION CERTIFICATE

(TWO COPIES)

1. Name of the guide and address :

2. Name of the student(s) :

3. Title of the project :

4. Project code :

It is certified that a sum of Rs (Rupees)
sanctioned by the council for carrying out above mentioned student project has been
utilized for the purpose for which it was sanctioned and sum of Rs remaining
unutilized is refunded.

Signature of the Guide

Signature of the HOD

Signature of the
Registrar/Principal/Dean
with SEAL

Antibiofilm and Antiquorum Sensing Potential of Biosynthesized Silver Nanoparticles from Nutmeg Against MDR *Salmonella enterica* Serovar Typhi

Duraisamy S.
Division of Biological Sciences
Tamil Nadu State Council for Science and Technology
Chennai – 600 025

Abstract

Globally, *Salmonella* infection poses a major public health problem. In this study, we report the antibiofilm activity and quorum sensing inhibition of an aqueous extract of nutmeg and biosynthesized silver nanoparticles (AgNPs) against multidrug-resistant (MDR) *Salmonella enterica* serovar Typhi (*S. Typhi*) isolated from typhoid patients and asymptomatic carriers. The inhibition of biofilm formation by MDR *S. Typhi* isolates and the suppression of pigment production in *Chromobacterium violaceum* demonstrated the quorum-sensing potential of nutmeg. The aqueous nutmeg extract exhibited 87% antibiofilm activity, while the biosynthesized AgNPs showed 99.1% antibiofilm activity. Molecular docking studies further revealed that the bioactive compounds in nutmeg possess anti-quorum sensing properties.

Introduction

Salmonella species are among the most important pathogens worldwide, exhibiting high morbidity and mortality rates. Following infection, *S. Typhi* colonizes the gallbladder and can remain there long after symptoms have subsided, serving as a reservoir for the further spread of the disease. However, a significant percentage of typhoid infections result in the asymptomatic carriage of *S. Typhi*. Clinical observations among typhoid carriers show that their resistance to antibiotic treatment and the extension of infection to the gallbladder are associated with the biofilm-producing potential of *S. Typhi*. In many typhoid cases, persistence can lead to the formation of biofilms on gallstones in both acute patients and chronic carriers. Typhoidal and non-typhoidal *Salmonella* biofilms represent a major health problem in industrial, veterinary, and medical settings, as they contribute to the failure of antibiotic treatments and facilitate the development and spread of antibiotic resistance.

Methodology

In this study, a nutmeg aqueous extract, biosynthesized AgNPs, and MDR *S. Typhi* isolates (NCBI accession numbers KT037135-38, KT037130-34, KT696507, KT696504-06) from asymptomatic typhoid carriers and typhoid patients were used. Potent biofilm-forming MDR *S. Typhi* isolates were evaluated using the Congo red agar, tube adherence, and tissue culture plate methods. The quorum sensing inhibition ability of the nutmeg aqueous extract and biosynthesized AgNPs was determined using a soft agar overlay protocol with *Chromobacterium violaceum* (ATCC 12472) as the indicator bacterium. Molecular docking studies of the bioactive compounds of nutmeg were performed against the transcriptional regulatory protein RcsB and the sensor kinase protein RcsC.

Results

S. Typhi isolates revealed a higher percentage (46%) of biofilm production when identified by the tissue culture plate method compared to the Congo red agar and tube adherence methods. The inhibition of biofilm formation by MDR *S. Typhi* isolates and the reduction in pigment production by *C. violaceum* (indicator bacteria) demonstrated the quorum-sensing potential of nutmeg. The aqueous nutmeg extract exhibited 87% antibiofilm activity, while the biosynthesized AgNPs showed 99.1% antibiofilm activity. Molecular docking studies of the bioactive compounds in nutmeg against the transcriptional regulatory protein RcsB and sensor kinase protein RcsC revealed interactions with these target proteins, indicating their anti-quorum sensing potential.

Conclusion

It is concluded that biosynthesized AgNPs could be used as an effective candidate for treating asymptomatic typhoid carriers or typhoid patients and for controlling the persistence of biofilm-producing *S. Typhi* strains or other pathogenic bacteria in environmental or industrial settings.

Guide: Dr. S. Arjunan, Professor, Division of Biological Sciences, Tamil Nadu State Council for Science and Technology, Chennai – 600 025



APPLICATION FOR FINANCIAL ASSISTANCE FOR ORGANIZING LECTURE/MAE PROGRAMS

[World Philosophy Day (WPD), Periodic Lecture (PL), Indian Philosophers' Day (IPD), International Day of Yoga (IDY), Buddha Jayanti Lecture (BJL), Mahaveera Jayanti Lecture (MJL), Study Circle Lecture (SCL), Minor Academic Events (MAE), Other Lecture Programmes]

(Please Prefer to Type-set Filled-in Data in the Format.)

[A]

1. Application for : Lecture programme on Yoga Philosophy and Practice along with demonstration

(If MAE mentions Heading and Sub-heading, If other Lecture Programmes, mention the Head/Title of the Lecture Programme)

2. Category: Gen

3. (a) Personal Title: Mrs.

(b) Official Title: Assistant Professor

4. Name, Designation & complete Official/Departmental Address of the Applicant/Organizer:

Mrs. S Mary Pelsit, Head and Assistant Professor, Department of social Work, Nanjil catholic college of Arts and Science, Nedumcode, Kaliakkavilai, Kanyakumari District, 629153.

5. Telephone/Mobile No.: 8300177635, 7305392632 E-mail ID: mpelsit@gmail.com

(All communications will be made by this Email ID, and Phone No. will be used for urgent communications.)

6. (a) Whether the same or any Programme of ICPR was organized by the Same Applicant/Dept./ Same Univ. in Last 3 Years or not? No

(b) If so, whether the matters of Accounts were Settled or still Pending (If pending provide details)? N/A

7. Name and designations of the Invited/Proposed / Speakers or Resource persons and Title of Their Proposed

Presentations/Tasks: (Provide In separate page, if space is insufficient. Provide the Theme of Presentations in Detail in Separate Pages.)

Sl. No.	Name of the Resource Persons	Affiliation	Title of Lecture or Event	Tentative Dates of the Programme
01	Dr. Nice Mol	AMO, Naturopathy wing GH, Kuzhithurai.	Health benefits of Yoga	17-06-2024
02	Dr. Archana	Senior Consultant, Marvel Naturecure Hospital, Marthandam.	Best yoga Poses for Beginners	18-06-2024
03	Dr. Bidhu K K	Clinical Psychologist, Yoga Consultant, Trainer, Motivational Speaker,	Breathwork for beginners	19-06-2024
04	Dr. Jayaraj	AYUSH medical Officer, Kuttaikuzhi PHC, Kanyakumari District.	Yoga Asanas to improve Concentration and Memory: 7 best asanas for students during exams	20-06-2024

(Add abstract/write-up of the programme/event in separate pages, if any)

8. Number of Students of the Organizing Department. 36 MSW students, 46 MCOM students

(a) U.G.: ; (b) P.G.: ; (c) M.Phil: ; (d) Ph. D:

(e) If the Application is for MAE, provide the list of required students.

[B]

Details of the Budget Proposal for The Programme



9. I. Estimate of Proposed Expenditure under Different Heads (extra lines may be added as required):

- (a) Honorarium for 4 Resource Persons × Rs. 3000 = Rs. 12000
(b) Travel Allowance for Resource Person (maximum of Rs.1000 for each Resource Person) = Rs. 4000
(c) Banner, Certificates and Stationery = Rs. 5000
(d) Refreshment and Lunch for 100 Participants = Rs.19000

Total

- (c) II.(a) Financial assistance expected from ICPR: 40000
(d) Financial assistance from the Concerned Department apart from ICPR Grant: NIL
(e) Total Amount required for organizing the Programme: Rs. 40000

[C]

9. Official Bank Details of (the Institution/Dean/Director/Registrar/Principal/HOD/Coordinator of the Dept., of the payee's Institution through which the grant amount will be disbursed, if the application is selected for the grant.

Name of the Account Holder as in the bank account (of Institution / Department or the Designated One, not personal): Nanjil Catholic College of Arts and Science Kaliakkavilai, 629153.

Account No. (Provide, if you are sure of selection of your application):

10270100217857

IFSC: FDRL0001027

Name of the Bank: FEDERAL BANK

Address of the Branch of the Bank: Sivasakthi Building, Inchivilaa, Parasala, 695502.

[D]

UNDERTAKING:

1. I certify that I have gone through all required information and the above-mentioned information is correct to best of my knowledge and belief.
2. No required information regarding previous and unsettled issue, asked for or related, is kept hidden.
3. The bank account details are authentic and entered here with knowledge of the account holder.
4. The sanctioned amount will be utilized for the purpose it is sanctioned and within the period for which it is sanctioned.
5. Immediately, after the completion of the event, soft copy of detailed academic reports in both English and Hindi with 2/3 photographs (all being kept in a single MS Word file) will be uploaded in the designated link for report in ICPR Website / or email to be provided for the purpose.
6. The statement of expenditure along with original Vouchers (with required TDS, GST), completed in all respects, with the print copy of the academic reports (soft copy of which was submitted previously) - all self-attested by the organizer, will be submitted to the Council by post / courier within one month of the actual event/programme.
7. Other Terms and Conditions to be laid down by the Council and stated in Sanction Order will be complied.

S. Mary Pelsit
Name of the Forwarding Authority: Head
HoD/Coordinator of the Dept. Social Work
Nanjil Catholic College of Arts & Science
Kaliakkavilai - 629 153, Tamil Nadu.
(Signature and Seal)

(Signature of the Applicant/Organizer with Seal)
S. Mary Pelsit
Head
Department of Social Work
Nanjil Catholic College of Arts & Science
Kaliakkavilai - 629 153, Tamil Nadu.

Name of the Forwarding Authority: Dr. M. Amalanathan, M.Sc..M.Phil..Ph.D
Dean/Director/Registrar/Principal
(Signature and Seal)
PRINCIPAL
Nanjil Catholic College of Arts & Science
Kaliakkavilai - 629 153





भारतीय दार्शनिक अनुसंधान परिषद्
(शिक्षा मंत्रालय, भारत सरकार)

INDIAN COUNCIL OF PHILOSOPHICAL RESEARCH
(Ministry of Education, Government of India)



F. No. 12-4/2024/P&R/ICPR/30
June 12, 2024

SANCTION ORDER

Sanction of the Indian Council of Philosophical Research is hereby conveyed for payment of a grant of Rs. 40,000/- (Rupees forty thousand only) to the Nanjil Catholic College of Arts and Science Kaliakkavilai for disbursement to Mrs. S. Mary Pelsit, Head and Assistant Professor, Department of Social Work, Nanjil Catholic College of Arts and Science, nedumcode, Kaliakkavilai, Kanyakumari District - 629153 for organizing programme (s) for the **Celebration of International Day of Yoga, 2024**.

The grant is subject to the following terms and conditions:

1. Brief Programme Report in English and Hindi in MS Word format along with 2-3 photos are sent to lecture@icpr.in within 7 days after the programme.
2. The sanctioned amount shall be utilized for the purpose for which it has been sanctioned.
3. The payee shall exercise reasonable economy in expending the sanctioned amount.
4. Regular accounts shall be maintained in respect of expenditure of the sanctioned amount. TDS and GST as applicable may deducted.
5. Immediately after the programme is over, the payee shall furnish the detailed statement of expenditure duly supported with original bills/vouchers, latest by one month after the programme. All documents/papers/vouchers must be self-attested, while submitting the account details.
6. The payee shall submit a brief report of the programme along with a copy of the script of the Lecture delivered as well as 2/3 photographs with the background of banner/back drop etc.
7. All these documents must be sent in original through Speed Post to the Council.
8. Apart from conveyance charges, an honorarium of Rs. 3,000/- for each lecture may be paid to the Resource Person/Scholar, who delivers the lecture.
9. If the event is not organized before **July 31, 2024** the sanctioned amount may be refunded to the Council forthwith via D. D. in favour of 'Indian Council of Philosophical Research, New Delhi'.

The sanctioned amount shall be paid through the Nanjil Catholic College of Arts and Science Kaliakkavilai through Bank Transfer to A/c. No. 10270100217857 6 at Federal Bank, Branch: Sivasakthi Building, Inchivilaa, Parasala. (IFS Code: FDRL0001027).

The expenditure will be met from the budget of the Council for the current financial year and debited to the head of account **Group D D-VII F General 2202.80.004.11.00.31 International Yoga Day**.

(Authority: Competent Authority approval dated 27.05.2024 on note 9/n).


(Dr. D.K. Jatav)
Programme Officer

Director (A&F), ICPR, New Delhi.
Copy to:

1. Principal, Nanjil Catholic College of Arts and Science, nedumcode, Kaliakkavilai, Kanyakumari District - 629153
2. Mrs. S. Mary Pelsit, Head and Assistant Professor, Department of Social Work, Nanjil Catholic College of Arts and Science, nedumcode, Kaliakkavilai, Kanyakumari District - 629153
ID: mpelsit@gmail.com, Mb: 8300177635/7305392632

स्वच्छ भारत अभियान (पर्यावरण को स्वच्छ बनाएं)

E-mail: icpr@bol.net.in, icprhqrs@gmail.com Website: <http://www.icpr.in>

मुख्य कार्यालय : दर्शन भवन, 36 तुगलकबाद इंस्टीट्यूशनल एरिया, महरोली बदारपुर रोड, नई दिल्ली - 110062 दूरभाष : +91-11-29901516, 29901527 टेलीफैक्स : 29964750

Head office: Darshan Bhawan, 36, Tughlakabad Institutional Area, M.B. Road, New Delhi-110062 Tel.: +91-11-29901516, 29901527 Telefax: 29964750

लखनऊ कार्यालय : 3/9, विपुल खण्ड, गोमती नगर, लखनऊ- 226010 टेलिफैक्स : +91-522-2392636 E-mail: icprlkw@gmail.com

Lucknow Office : 3/9, Vipul Khand, Gomti Nagar, Lucknow-226010 Telefax: +91-522-2392636 E-mail: icprlkw@gmail.com

This is DSC Based Payment. PPA generation not applicable

PFMS Generated DSC Transaction Payment Advice Report

Agency Name: Indian Council of Philosophical Research (ICPR)-[ICPR]

Debit Bank Name : RESERVE BANK OF INDIA

Bank Account No: 10671201004

Approval date in PFMS: 19-Jun-2024

DSC Signing Date in PFMS: 19-Jun-2024

Amount (in Rs.) : 40,000.00 (Amount in words : Forty Thousand

No. Of Beneficiaries: 1

Not to be used by bank for making any payments

Debit Payment Advice No.: C062418996431

S.N o.	Beneficiary Name	PFMS Transaction ID	Account Number	IFSC Code	Aadhaar No.	Amount In (Rs.)
1	YS PALPARA MAHAVIDYALAYA	C062417664564	xxxxxxxxxxxx0019	PUNB0106 720		40,000.00
Total Amount(Rs):						40,000.00

(Sign by Authorized Signatory)

Name - _____

Designation - _____

Mobile No - _____

(Sign by Authorized Signatory)

Name - _____

Designation - _____

Mobile No - _____

This is DSC Based Payment. PPA generation not applicable

PFMS Generated DSC Transaction Payment Advice Report

Agency Name: Indian Council of Philosophical Research (ICPR)-[ICPR]

Debit Bank Name: RESERVE BANK OF INDIA

Bank Account No: 10671201004

Approval date in PFMS: 19-Jun-2024

DSC Signing Date in PFMS: 19-Jun-2024

Amount (in Rs.): 40,000.00 (**Amount in words:** Forty Thousand)

No. Of Beneficiaries: 1

Not to be used by bank for making any payments

Debit Payment Advice No.: C062418996111

S.N o.	Beneficiary Name	PFMS Transaction ID	Account Number	IFSC Code	Aadhaar No.	Amount In (Rs.)
1	YS PALPARA MAHAVIDYALAYA	C062417664254	xxxxxxxxxx0019	PUNB0106 720		40,000.00
Total Amount(Rs):						40,000.00

(Sign by Authorized Signatory)

Name - _____

Designation - _____

Mobile No - _____

(Sign by Authorized Signatory)

Name - _____

Designation - _____

Mobile No - _____

This is DSC Based Payment. PPA generation not applicable

PFMS Generated DSC Transaction Payment Advice Report

Agency Name: Indian Council of Philosophical Research (ICPR)-[ICPR]

Debit Bank Name: RESERVE BANK OF INDIA

Bank Account No: 10671201004

Approval date in PFMS: 19-Jun-2024

DSC Signing Date in PFMS: 19-Jun-2024

Amount (in Rs.): 1,280,000.00 (Amount in words : Twelve Lakhs Eighty Thousand

No. Of Beneficiaries: 32

Not to be used by bank for making any payments

Debit Payment Advice No.: C062418566541

S.No.	Beneficiary Name	PFMS Transaction ID	Account Number	IFSC Code	Aadhaar No.	Amount In (Rs.)
1	ABDUL AHAD AZAD MEMORIAL DEGREE COLLEGE BEMINA SRINAGAR	C062418566610	XXXXXXXXXXXX4886	JAKA0BEMINA		40,000.00
2	AMITY UNIVERSITY RAJASTHAN	C062418566618	XXXXXXXXXXXX6797	UTIB000010		40,000.00
3	AMITY UNIVERSITY HARYANA	C062418566609	XXXXXXXXXXXX5214	UTIB0000720		40,000.00
4	CENTRAL SANSKRIT UNIVERSITY DEVPYAG	C062418566622	XXXXXXXXXXXX6640	SBIN0014135		40,000.00
5	COOCH BEHAR PANCHANAN BARMA UNIVERSITY	C062418566620	XXXXXXXXXXXX6141	SBIN0000058		40,000.00
6	DHRUBA CHAND HALDAR COLLEGE RESOLUTION DT7404 RECEIVED	C062418566626	XXXXXXXXXXXX6097	SBIN0002046		40,000.00
7	GOBARDANGA HINDU COLLEGE DAY DEPARTMENT	C062418566635	XXXXXXXXXXXX3031	SBIN0008766		40,000.00
8	GRANT DONATION AND MISCELLANEOUS RECEIPTS AC	C062418566615	XXXXXXXXXXXX6735	IDIB000C641		40,000.00
9	INDAS MAHAVIDYALAYA GENERAL FUND AC	C062418566633	XXXXXXXXXXXX1595	BKID0004188		40,000.00
10	JADAVPUR UNIVERSITY	C062418566614	XXXXXXXXXXXX9404	SBIN0000093		40,000.00
11	KISS DEEMED TO BE UNIVERSITY	C062418566623	XXXXXXXXXXXX3999	PUNB0722900		40,000.00

12	KRISHNAGAR WOMENS COLLEGE	C062418566630	xxxxxxxxxxxx2076	BKID0004223	40,000.00
13	M M D CUM A L FUND NGC	C062418566617	xxxxxxxxxxxx3170	SBIN0000146	40,000.00
14	MONAD UNIVERSITY	C062418566606	xxxxxxxxxxxx3666	IOBA0003311	40,000.00
15	Mr PRINCIPAL RAMJI SAHAI	C062418566629	xxxxxxxxxxxx2262	CBIN0283704	40,000.00
16	NANJIL CATHOLIC COLLEGE OF ARTS SCIENCE	C062418566611	xxxxxxxxxxxx7857	FDRL0001027	40,000.00
17	P R THAKUR GOVT COLLEGE	C062418566616	xxxxxxxxxxxx2907	SBIN0010419	40,000.00
18	PARSHVANATH VIDYAPEETH	C062418566619	xxxxxxxxxxxx0041	BARBOLAN KAX	40,000.00
19	PRINCIPAL KABI NAZRUL MAHAVIDYALAYA SONAMURA SEPAHIJALA TRIPURA	C062418566631	xxxxxxxxxxxx5181	PUNB0RR BTGB	40,000.00
20	PRINCIPAL MADHAV COLLEGE JANBHAGIDARI	C062418566604	xxxxxxxxxxxx4190	SBIN0030522	40,000.00
21	PRINCIPAL MADRAS CHRISTIAN COLLEGE CENTRAL GOVERNMENT PROJECTS	C062418566607	xxxxxxxxxxxx7079	IOBA0000191	40,000.00
22	PRINCIPAL SALEPUR COLLEGE	C062418566625	xxxxxxxxxxxx1156	SBIN0003942	40,000.00
23	PRINCIPALKANDARPUR COLLEGEKANDARPUR	C062418566608	xxxxxxxxxxxx7933	SBIN0013574	40,000.00
24	PROJECT ACCOUNT	C062418566634	xxxxxxxxxxxx0003	BARB0BHU VAR	40,000.00
25	RABINDRANATH TAGORE UNIVERSITY	C062418566632	xxxxxxxxxxxx0952	PUNB0655300	40,000.00
26	SAMMILANI MAHAVIDYALA FOR STUDENTS COLLECTION AC	C062418566627	xxxxxxxxxxxx1440	PUNB0520710	40,000.00
27	SHRI GURU RAM RAI UNIVERSITY	C062418566621	xxxxxxxxxxxx2575	IOBA0002383	40,000.00
28	SIVANATH SASTRI COLLEGE	C062418566613	xxxxxxxxxxxx6386	SBIN0007195	40,000.00
29	SPM COLLEGE STUDENT FUND AC	C062418566612	xxxxxxxxxxxx0115	IOBA0001760	40,000.00
30	THE PRINCIPAL SBS GOVERNMENT COLLEGE HIL I	C062418566624	xxxxxxxxxxxx0622	SBIN0012415	40,000.00

P.F.M.S

31 TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY GENERAL	C062418566605	xxxxxxxxxxxx0124	SBIN00020 87	40,000.00
32 ZAKIRHUSAINDELHIC OLLEGEBOYSFUND	C062418566628	xxxxxxxxxxxx0002	CNRB0008 668	40,000.00

Total Amount(Rs): 1,280,000.0
0

.....
(Sign by Authorized Signatory)

Name - _____

Designation - _____

Mobile No - _____

.....
(Sign by Authorized Signatory)

Name - _____

Designation - _____

Mobile No - _____

PEMS

This is DSC Based Payment. PPA generation not applicable

PFMS Generated DSC Transaction Payment Advice Report

Agency Name: Indian Council of Philosophical Research (ICPR)-[ICPR]

Debit Bank Name : RESERVE BANK OF INDIA

Bank Account No: 10671201004

Approval date in PFMS: 19-Jun-2024

DSC Signing Date in PFMS: 19-Jun-2024

Amount (in Rs.) : 200,000.00 (**Amount in words :** Two Lakhs

No. Of Beneficiaries: 5

Not to be used by bank for making any payments

Debit Payment Advice No.: C062418944405

S.No.	Beneficiary Name	PFMS Transaction ID	Account Number	IFSC Code	Aadhaar No.	Amount In (Rs.)
1	ARSHABHARATHI	C062418948676	xxxxxxxxxxxx1060	BARB0VJM ATT		40,000.00
2	KALIMPONG COLLEGE	C062418948675	xxxxxxxxxxxx0452	SBIN00001 05		40,000.00
3	Ms GENERAL FUND ACCOUNT DDU GORAKHPUR UNIVE RSITY	C062418948674	xxxxxxxxxxxx4709	IDIB000G6 16		40,000.00
4	PONDICHERRY UNIVERSITY EMSF	C062418948678	xxxxxxxxxxxx5284	IDIB000P15 2		40,000.00
5	SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE FUNDING	C062418948677	xxxxxxxxxxxx2078	IDIB000R0 48		40,000.00

Total Amount(Rs): 200,000.00

(Sign by Authorized Signatory)

Name - _____

Designation - _____

Mobile No - _____

(Sign by Authorized Signatory)

Name - _____

Designation - _____

Mobile No - _____

**NANJIL CATHOLIC COLLEGE OF ARTS AND SCIENCE
KALIYAKKAVILAI**

Endowment-Details of Award received by faculty

Name of the Endowment	Instituted by	Name of the Bank	Account Number	Date	Receipt Number	Amount	Beneficiary
NACCAS Founder SMR Award	Rev. Fr. Dr. S. Maria Rajendran	Federal	10270300107635	19.04.17	214567	25000	Academic Topper in the College
M.S.R.*Award	Dr. C. Arul Mary Thangam	Federal	10270300107668	19.04.17	214570	10000	Academic Topper in PG Commerce
Agnes Memorial Award	Miss. A. Mary Dayana	Federal	10270300107718	19.04.17	214574	15000	Academic Topper in B.Sc. Computer Science
Mani Memorial Award	Dr. M. Sindhu	Federal	10270300107650	19.04.17	214569	10000	Academic Topper in UG Commerce
Jul Durai Nadar Award	Dr. P. Sekhar Ramasubramaniam	Federal	10270300107619	19.04.17	214565	25000	Academic Topper in PG Physics
Augustin Award	Dr. A. Karolin	Federal	10270300107627	19.04.17	214566	25000	Academic Topper in UG and M.Phil. Physics
Nelson Memorial Award	Prof. N. Jose	Federal	10270300107676	19.04.17	214571	10000	Academic Topper in B.Com.(CA)
Arulappan Durai Moni Anthonyammal Award	Dr. A. Sujatha Joice	Federal	10270300107643	19.04.17	214568	10000	Academic Topper in Part-I Tamil
English Language Prize	Dept. of English	Federal	10270300107684	19.04.17	214572	10000	Academic Topper in Part II English
English Literary Award	Dept. of English	Federal	10270300107692	19.04.17	214573	10000	Academic Topper in UG English
Quarterly English Literary Award	Dept. of English	Federal	10270300108088		214620	10000	Academic Topper in PG English
Malayalam Rank Holders Award	Mrs.M.Sheenamol Thankamoni	Federal	10270300107726	19.04.17	214576	5000	Rank Holder in Malayalam
Ramanujam Memorial Award	Dept. of Mathematics	Federal	10270300107700	19.04.17	214575	10000	Academic Topper in UG Mathematics
Best Reader Award	Rev. Fr. Dr. S.K. Jose Robinson	Federal	10270300107700	19.04.17	214575	20000	Best Reader Award (for Arts, Science, PG and M.Phil.)
M.E.M Award	Rev. Fr. Dr. M. Eckermens Michael	Federal	10270300124648	12.10.22	24069359	50000	Academic Toppers in UG Male students


Rev. Fr. Dr. M. ECKERMENS MICHAEL
 Secretary M.B.A.,Ph.D
 Nanjil Catholic College of Arts & Science
 Kaliyakkavilai - 629 153,
 Kanyakumari District, Tamilnadu, India.

A 791

Receipt No.: **H 214620**

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Branch: **PARASSALA/1027**

A/c No.: **10270300108088**

Date: **24-05-2017**



CASH CERTIFICATE

RECEIVED WITH THANKS FROM ^{M/S}

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA. PIN - 629153

INDIAN RUPEES Ten Thousand only

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

CASH CERTIFICATE

Operation Mode: **SINGLE**

AS A

Effective Date	Rate%	Period	Repayable on	Deposit Amount	Maturity Value
24-05-2017	6.50	Days 38 Month/s Year/s	24-05-2020	*****10,000.00	*****12,134.00
				Annualized Yield : 7.11	

Pre-closure charges applicable for deposits exceeding Rs.15 Lacs

For The Federal Bank Ltd.

Not Transferable

Clerk

[Signature]
Asst. Manager

For THE FEDERAL BANK LTD

[Signature]
Senior Manager/Manager
Subha Kumari, L

The Federal Bank Limited, Regd. Office: Aluva.

10/01/16 MAFINAL TECHNOLOGIES LTD., KANNIYAKUMARI

RENEWAL DETAILS

Date of Renewal	Renewed	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
24/11/20 5/5/20	24/11/20 19/4/20	10220300 108088	36m	6%	₹ 11919	24/11/2023	₹ 14251	

PARTICULARS OF CHARGES/LIEN

Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :

Revenue Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H/ 15G is submitted for every financial year in advance.
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

CASH CERTIFICATE

Receipt No.: **H 214567**

PARASSALA/1027

Branch:

A/c No.: 10270300107435

Date: 19-04-2017

RECEIVED WITH THANKS FROM ^{M/S} NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARIARAJENDRAN S, GODWIN SOUNDER RAJ
INDIAN RUPEES Twenty Five thousand only

RUPEES

CASH CERTIFICATE

Operation Mode: JOINT

AS A

Effective Date	Rate%	Period	Repayable on	Deposit Amount	Maturity Value
19-04-2017	6.50	Days	Month/s Year/s 19-04-2020	*****25,000.00	*****30,335.00
				Annualized Yield : 7.11	

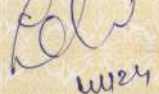
Pre closure charges applicable for deposits exceeding Rs.15 Lacs

For The Federal Bank Ltd.

Not Transferable

Clerk


Asset Manager



Chief/Senior Manager/Manager

The Federal Bank Limited, Regd. Office: Aluva.

INSIDE MANUFIN TECHNOLOGIES LTD. MUMBAI

Physics

RENEWAL DETAILS

Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/2020	19/4/20	10270300107635	36m	6.4	29579	19/4/23	36028	

PARTICULARS OF CHARGES/LIEN

Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :

Revenue Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of Interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

CASH CERTIFICATE

Receipt No.: **H 214570**
PARASSALA/1027
Branch:
10270300107668
A/c No.:
Date: 19-04-2017

RECEIVED WITH THANKS FROM M/S NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARIARAJENDRAN S, GODWIN SOUNDER RAJ
INDIAN RUPEES Ten Thousand only

RUPEES

CASH CERTIFICATE

Operation Mode: JOINT

ASA

Effective Date	Rate%	Period	Repayable on	Deposit Amount	Maturity Value
19-04-2017	5.50	Days 0 Month/s Year/s	19-04-2020	*****10,000.00	*****12,134.00
Annualized Yield : 7.11					

Pre-closure charges applicable for deposits exceeding Rs.15 Lacs

For The Federal Bank Ltd.


Asst. Manager


Chief/Senior Manager/Manager

Not Transferable

Clerk

RENEWAL DETAILS								
Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/2020	19/4/20	102709001076836	6.4		11912/-	19/4/2020	14412/-	82

PARTICULARS OF CHARGES/LIEN						
Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :

Revenue Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance.
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791



CASH CERTIFICATE

Receipt No.: **H 214574**
Branch: PARASSALA/1027
A/c No.: 10270300107718
Date: 19-04-2017

RECEIVED WITH THANKS FROM

M/S

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARIARAJENDRAN S. GODWIN BOUNDER RAO
INDIAN RUPEES Fifteen Thousand only

RUPEES

CASH CERTIFICATE

Operation Mode: JOINT

ASA

Effective Date	Rate%	Period	Repayable on	Deposit Amount	Maturity Value
19-04-2017	6.50	Days 0 Months 6 Year/s 1	19-04-2020	*****15,000.00	*****18,201.00
Annualized Yield : 7.11					

Pre-closure charges applicable for deposits exceeding Rs.15 Lacs




For The Federal Bank Ltd

Asst. Manager

Chief/Senior Manager/Manager

Not Transferable

Clerk

RENEWAL DETAILS								
Date of Renewal	Renewed w.e.f.	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/20	19/4/20	10270300107918	36	6.4	17868/-	19/4/23	21617/-	

PARTICULARS OF CHARGES/LIEN						
Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :

Revenue Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance.
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

Receipt No.: **H 214569**

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Branch: PARASSALA/1027

A/c No.: 10270300107650

Date: 19-04-2017

CASH CERTIFICATE

RECEIVED WITH THANKS FROM

M/S

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JTYADDL Names: MARIARAJENDRAN S, GODWIN SOUNDER RAJ
INDIAN RUPEES Ten thousand only

RUPEES

CASH CERTIFICATE

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Operation Mode: JOINT

AS A

Effective Date	Rate%	Period		Repayable on	Deposit Amount	Maturity Value
		Days	Month/s	Year/s		
19-04-2017	6.50				*****10,000.00	*****12,134.00
Annualized Yield : 7.11						

Pre closure charges applicable for deposits
exceeding Rs.15 Lacs

For The Federal Bank Ltd.

Not Transferable

Clerk



Asst. Manager

[Signature]
Chief/Senior Manager/Manager

RENEWAL DETAILS							
Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value
5/5/20	19/4/20	10270900107150	36	64	11912/-	19/4/23	14412/-



PARTICULARS OF CHARGES/LIEN							
Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.	

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :



Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H/15G is submitted for every financial year in advance
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

CASH CERTIFICATE

Receipt No.: **H 214565**
PARASSALA/1027
Branch:
A/c No.: 10270300107619
Date: 19-04-2017

RECEIVED WITH THANKS FROM

M/S

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIYAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

IT/ADBL Names: MARIARAJENDRAN S, GODWIN SOUNDER RAJ
INDIAN RUPEES Twenty Five Thousand only

RUPEES

CASH CERTIFICATE

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Operation Mode: JOINT

AS A

Effective Date	Rate%	Period		Repayable on	Deposit Amount	Maturity Value
		Days	Month/s	Year/s		
19-04-2017	6.50				*****25,000.00	*****30,335.00
Annualized Yield : 7.11						

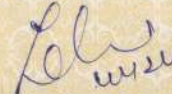
Pre-closure charges applicable for deposits
exceeding Rs.15 Lacs

For The Federal Bank Ltd.

Not Transferable

Clerk



Asst. Manager


Chief/Senior Manager/Manager

The Federal Bank Limited, Regd. Office: Aluva.

Physician

RENEWAL DETAILS

Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/20	19/4/20	10270300107619	36	64	29779/-	19/4/23	26028/-	

PARTICULARS OF CHARGES/LIEN

Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :

Revenue Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Receipt No.: **H 214566**

PARASSALA/1027

Branch:

10270300107627

A/c No.:

Date: 19-04-2017

CASH CERTIFICATE

RECEIVED WITH THANKS FROM

M/S NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUNKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARIARAJENDRAN S. GODWIN SOUNDAR RAJ
INDIAN RUPEES Twenty Five thousand only

RUPEES

CASH CERTIFICATE

Operation Mode: JOINT

ASA

Effective Date	Rate%	Period			Repayable on	Deposit Amount	Maturity Value
		Day/s	Month/s	Year/s			
19-04-2017	6.50				19-04-2020	*****25,000.00	*****30,335.00
Annualized Yield : 7.11							

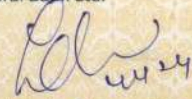
Pre-closure charges applicable for deposits exceeding Rs.15 Lacs

For The Federal Bank Ltd.

Not Transferable

Clerk


Ass. Manager


Chief/Senior Manager/Manager

The Federal Bank Limited, Regd. Office: Aluva.

Physics

RENEWAL DETAILS								
Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/20	19/4/20	10270300107627	36	6.4	29779/-	19/4/23	36028/-	SE



PARTICULARS OF CHARGES/LIEN						
Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :



Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

CASH CERTIFICATE

Receipt No.: **H 214571**

Branch: PARASSALA/1027

A/c No.: 10270300107676

Date: 19-04-2017

RECEIVED WITH THANKS FROM

M/S

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JTYADDL Names: MARIARAJENDRAN S. GODWIN SOUNDER RAJ
INDIAN RUPEES Ten Thousand only

RUPEES

CASH CERTIFICATE

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Operation Mode: JOINT

AS A

Effective Date	Rate%	Period		Repayable on	Deposit Amount	Maturity Value
19-04-2017	6.50	Days	Month/s	Year/s	19-04-2020 *****10,000.00	*****12,134.00
					Annualized Yield: 7.11	


Pre-closure charges applicable for deposits
exceeding Rs.15 Lacs

For The Federal Bank Ltd.

Not Transferable

Clerk


Asst. Manager


Chief/Senior Manager/Manager

The Federal Bank Limited, Regd. Office: Aluva

19/07/2017 FEDERAL TECHNOLOGIES LTD. KANNIYAKUMARI

RENEWAL DETAILS								
Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
3/5/20	19/4/20	10270300107676	36	64	11912/-	19/4/23	14412/-	82



PARTICULARS OF CHARGES/LIEN						
Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees) only)

Name & Signature of Depositor/s

Date :



Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance.
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

CASH CERTIFICATE

Receipt No. : **H 214568**

Branch: PARASSALA/1027

A/c No.: 10270300107643

Date: 19-04-2017

RECEIVED WITH THANKS FROM

M/S NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARIARAJENDRAN S, GODWIN SOUNDER RAJ
INDIAN RUPEES Ten Thousand only

RUPEES

CASH CERTIFICATE

Operation Mode: JOINT

AS A

Effective Date	Rate%	Period			Repayable on	Deposit Amount	Maturity Value
		Days	Month/s	Year/s			
19-04-2017	6.50				19-04-2020	*****10,000.00	*****12,134.00
					Annualized Yield : 7.11		

Pre-closure charges applicable for deposits
exceeding Rs.15 Lacs

For The Federal Bank Ltd.

Not Transferable

Clerk


Asst. Manager

Chief/Senior Manager/Manager

The Federal Bank Limited, Regd. Office: Aluva.

16/01/17 MANIPAL TECHNOLOGIES LTD. MANIPAL

Tamil

RENEWAL DETAILS								
Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/20	19/4/20	10270300107643	36	6.4	11911/-	19/4/23	14410/-	

PARTICULARS OF CHARGES/LIEN						
Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :

Revenue Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

Receipt No.: **H 214572**

PARASSALA/1027

Branch:

A/c No.: 10270300107684

Date: 19-04-2017

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

CASH CERTIFICATE

RECEIVED WITH THANKS FROM

M/S

NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARIARAJENDRAN S. GODWIN SOUNDER RAJ
INDIAN RUPEES Ten Thousand only

RUPEES

CASH CERTIFICATE

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Operation Mode: JOINT

AS A

Effective Date	Rate%	Period	Repayable on	Deposit Amount	Maturity Value
19-04-2017	6.50	Day@ Month/s Year/s	19-04-2020	*****10,000.00	*****12,134.00
Annualized Yield : 7.11					

Pre-closure charges applicable for deposits
exceeding Rs.15 Lacs

For The Federal Bank Ltd.

Not Transferable

Clerk



Chief/Senior Manager/Manager

RENEWAL DETAILS								
Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/20	11/4/20	10270300107584	86	64	11912/-	19/4/23	14412/-	82



PARTICULARS OF CHARGES/LIEN						
Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :



Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance.
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Receipt No.: **H 214575**

Branch: PARASSALA/1027

A/c No.: 10270300107700

Date: 19-04-2017

CASH CERTIFICATE

RECEIVED WITH THANKS FROM M/S NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARIARAJENDRAN S. GODWIN SOUNDER RAJ
INDIAN RUPEES Thirty Thousand only

RUPEES

CASH CERTIFICATE

Operation Mode: JOINT

AS A

Effective Date	Rate%	Period		Repayable on	Deposit Amount	Maturity Value
19-04-2017	6.50	Day/s	Month/s	Year/s	19-04-2020 *****30,000.00	*****36,402.00
Annualized Yield :						

Pre-closure charges applicable for deposits exceeding Rs.15 Lacs

For The Federal Bank Ltd.

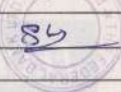
Not Transferable

Clerk

Asst. Manager

Chief/Senior Manager/Manager

The Federal Bank Limited, Regd. Office: Aluva.

RENEWAL DETAILS								
Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/20	19/4/20	102708007700	86	6.4	35786/-	19/4/23	43235/-	

PARTICULARS OF CHARGES/LIEN						
Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :

Revenue
Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

CASH CERTIFICATE

Receipt No.: **H 214573**

Branch: PARASSALA/1027

A/c No.: 10270300107692

Date: 19-04-2017

RECEIVED WITH THANKS FROM

M/S NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARTARAJENDRAN S. GODWIN SOUNDER RAJ
INDIAN RUPEES Ten Thousand only

RUPEES

CASH CERTIFICATE

Operation Mode: JOINT

AS A

Effective Date	Rate%	Period	Repayable on	Deposit Amount	Maturity Value
19-04-2017	6.50	Days Month/s Year/s	19-04-2020	*****10,000.00	*****12,134.00
Annualized Yield : 7.11					

Pre-closure charges applicable for deposits
exceeding Rs.15 Lacs

Not Transferable


Clerk


Asst. Manager

For The Federal Bank Ltd.)


Chief/Senior Manager/Manager

RENEWAL DETAILS

Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/20	19/4/20	10270300167692	36	6.4	11910/-	19/4/23	14409/-	

PARTICULARS OF CHARGES/LIEN

Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees only)

Name & Signature of Depositor/s

Date :

Revenue Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

A 791

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Receipt No.: **H 214576**

Branch: PARASSALA/1027
10270300107726

A/c No.:
19-04-2017

Date:

RECEIVED WITH THANKS FROM M/S NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE,
NEDUMKODU KALIAKAVILAI, KANYAKUMARI,
KANYA KUMARI, TAMIL NADU
INDIA, PIN - 629153

JT/ADDL Names: MARTARAJENDRAN S. GODWIN SOUNDER RAJ
INDIAN RUPEES Five Thousand only
RUPEES
CASH CERTIFICATE Operation Mode: JOINT

AS A

Effective Date	Rate%	Period	Repayable on	Deposit Amount	Maturity Value
19-04-2017	6.50	35 Days Month/s Year/s	19-04-2020	*****5,000.00	*****6,057.00

Annualized Yield :
Pre-closure charges applicable for deposits
exceeding Rs.15 Lacs




Not Transferable

Clerk

Asst. Manager

Chief/Senior Manager/Manager

RENEWAL DETAILS

Date of Renewal	Renewed w.e.f	New A/c No.	Period	Interest	Deposit Amount	Due Date	Maturity Value	Signature
5/5/20	19/4/20	10290300107726	36	6.4	5956/-	19/4/23	7206/-	

PARTICULARS OF CHARGES/LIEN

Date	Nature	A/c No.	Amount	Intl.	Closed on	Intl.

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Received ₹ (Rupees) only)

Name & Signature of Depositor/s

Date :

Revenue Stamp

Clerk

Asst. Manager

Chief/Senior Manager/Manager

Payment of interest/maturity value is subject to TDS at the rate applicable from time to time.
Tax will be deducted at source unless Form 15H / 15G is submitted for every financial year in advance.
Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the Depositor/s.

FEDERAL BANK

YOUR PERFECT BANKING PARTNER

TERM DEPOSIT ADVICE

Branch : PARASSALA

Name : NANJIL CATHOLIC COLLEGE OF ARTS & SCIENCE
Address : NEDUMKODU KALIAKAVILAI
KANYAKUMARI
KANYA KUMARI
TAMIL NADU, INDIA - 629153

Customer ID : 24069359
A/C No : 10270300124648
Scheme : CASH CERTIFICATE
Mode of Operation : JOINT
Minor : NA

Dear Sir/ Madam,

We are pleased to confirm the details of the following Term Deposit held in your name with us. Thank you for banking with us.

Amount in words : Rupees Fifty Thousand only

Effective Date	Interest Rate (%)	Period	Repayable On	Deposit Value	Maturity Value
12-OCT-2022	6	36 Months 0 Days	12-OCT-2025	50,000.00	59,781.00

Annualized Yield : 6.51%

Nomination : Not-registered

Premature closure penalty not applicable if closed within 90 days of opening/ renewal. All other cases, premature closure penalty applicable.

Payment of interest/ maturity value is subject to extant Tax rules.

Tax will be deducted at source unless Form 15H/ 15G is submitted for every financial year in advance.

Deposits will be renewed for the identical period at interest rates then applicable as a continuing process until instruction to the contrary is received from the depositor.

This is a system generated advice and does not require any signature

