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# SHRI SHANKARACHARYA TECHNICAL CAMPUS SHRI SHANKARACHARYA GROUP OF INSTITUTIONS

Managed by Shri Gangajali Education Society, Bhilai Approved by AICTE & Affiliated to CSVT University, Bhilai NBA Accredited for B.E. (Mech, EE, EEE, IT) Courses Accredited by NAAC with "A" Grade An ISO 9001:2015 Certified Institution

Date: 01-02-2020

Dr. Tawnenga Principal Pachhunga University College Mizoram Central University, Aizawl, India 796001

#### Dear Sir:

This is a letter of collaboration between the Research Group of Department of Physics, Pachhunga University College, Aizawl, Mizoram, and my group. Over the years, Dr. Dibya Prakash Rai have discussed many critical phenomena of Computational Materials Science with me. Dr. Rai also sent his scholar Mr. Bhanu Chettri to my lab for a whole month of Jan. 2020 to learn SIESTA code, which is a Density Functional Theory based computational program. In this collaboration there will be exchange of MSc/MPhil/PhD students between the two institutes. I agree to Dr. Rai in his keen interest in sharing joint guide ship for PhD scholars and in executing joint projects of UGC/CSIR/DST etc. Also, I'll strongly support him to organize a joint workshop/seminar in computational materials science in his institute and to develop a research lab in the region. It'll boost R&D in the North-East region, so I feel this collaboration would definitely benefit to your institute in terms of national exposure as well as in academics. The strengthening of bonds between the institutions with various expertise would largely benefit to young students/scholars/academicians of both the institutes.

Kind regards,

01/02/2020

(Dr. Mohan L Verma) Prof. & Head Department of Applied Physics Shri Shankaracharya Technical Campus-SSGI, Bhilai C.G. India Email: drmohanlv@gmail.com (www.drmlv.in)

Principal Pachhunga University College Aizawl: Mizoram

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Coordinator Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University)

JUNWANI, BHILAI-490 5500CHHATTISGARH), INDIA Phone : 0788-4088888, 2298605, 607 Fax: 0788-2298606 , Email : sstc@sstc.ac.in, Website : www.sstc.ac.in

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TON DUC THANG UNIVERSITY No.19, Nguyen Huu Tho Street, Tan Phong Ward, District 7, Ho Chi Minh City, Viet Nam Tel: (084) 028 37755 024. Fax: (084) 028 37755 055

Ho Chi Minh City, July 01", 2018

### Letter for Research Collaboration

### To: Prof. Dibya Prakash Rai,

Department of Physics, Pachhunga University College,

(Constituent of Mizoram University), Aizawl, Mizoram India - 796001.

### From: Prof. Nguyen Thoi Trung

Director of Institute for Computational Science (INCOS),

Ton Duc Thang University, Viet Nam

#### Dear Professor,

You may consider this letter as an official invitation for a collaborative research work. I write to express our interest and confirm commitment to collaborate with you in determining the promising properties of novel crystalline materials from density functional theory (DFT). As you know well, we have a strong interest in analysing materials functional properties and developing cost-effective technological devices. We have a good computational facility with strong Cluster Computing System installed in our department. Your theoretical background coupled with expertise in simulation would prove to be an asset in developing new prospective materials.

Consequently, discoveries emanating from this bilateral research would culminate to joint publication which the number of co-authors will be basically determine by leaders of both groups based on significant contributions. I would be pleased to be actively involved in this research and subsequent ones by providing support in offering insights, inputs on areas that we see as challenging, and applying theories and methodologies developed under this research. We will also support your research in terms of incentives wherever of if necessary.

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I look forward to this cooperation with you and your group.

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Thanks for your kind consideration.

Yours sincerely,

Director of INCOS KHOKNOC TINH TOWN

Prof. Nguyen Thoi Trung

Principal Pachhunga University College Aizawl : Mizoram

Coordinator Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University)

# DEPARTMENT OF PHYSICS

Centre of Advanced Study in Physics

PANJAB UNIVERSITY, CHANDIGARH -160 014 (INDIA) (Established under the Panjab University Act VII of 1947–enacted by the Govt. of India)

Tel. : +91-172-2541741, 2534446, 2534466 Fax : +91-172-2783336 E-mail : physics@pu.ac.in



PHS		464	2
Dated	••	141	2017

It is pleasure for me to record that Dr. D.P.Rai from Department of Physics, Pachhunga University, Aizawl, has worked in our research group under INSA fellowship from 12/12/2016 to 08/01/2017. He has worked on three problems using DFT theory. He calculated the electronic and thermoelectric properties of HfPtPb, a half-Heusler (HH) compound using density functional theory and semi-classical Boltzmann transport equation with constant time approximation. He has also worked on Electronic bandgap modulation of mono and bilayer ZnS under applied electric field and mechanical strain. These works have been culminated in writing two research papers which shall be communicated to reputed peer reviewed journals

In the process, he has gained hand on working experience with DFT software packages like SIESTA, Quantum Espresso, BoltzTrap and ShengBTE codes.

Dr. D.P.Rai has a pleasant personality, takes initiatives and is a good researcher. He worked in our research group with great enthusiasm. Hope that we can collaborate in various research areas in future also. I wish him all the best for his future endeavors.

Bunita

(Dr. Sunita Srivastava) Associate Professor Associate Professor Department of Physics P.U. Chandigarh

(Principal Pachhunga University College Aizawl : Mizoram



Coordinator Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University)



INRS-EM7. Université du Quebec 1650, Boulevard Lionel-Boulet Varennes, J3X 152 Quebec, Canada.

Department of Physics and Astronomy. University of Nigeria, Nsukka. Emuga State. Nigeria.

April 27, 2016

#### Prof. Dibya P. Rai,

Department of Physics, Pachhunga University College, Mizoram University, Aizawl, Mizoram India – 796001.

Dear Professor,

With deep humility. I write to express our interest and confirm our commitment to collaborate with you on the proposed project titled "Electronic Band Structure and Pseudocapacitance Behaviour of Mn-doped CeO<sub>2</sub>: A DFT First Principle Approach".

As you know well, we have a strong interest in developing cost-effective and novel deposition techniques employed in the synthesis of semiconducting materials. Your theoretical background coupled with expertise in simulation would prove to be an asset in developing new carbon-based and polymer-based materials.

Consequently, discoveries emanating from this bilateral research would culminate to joint publication which the number of co-authors will be basically determine by leaders of both groups based on significant contributions. I would be pleased to be actively involved in this research and subsequent ones by providing support experimentally (synthesis), offering insights and inputs on areas that we see as challenging, and applying theories and methodologies developed under this research.

I look forward to this cooperation with you and your group.

Thanks for your kind consideration.

Yours sincerely.

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Ifeanyichukwu C. Amaechi

Principal

Pachhunga University College Aizawl: Mizoram



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Coordinator

Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University) Gobierno Bolivariano | Ministerio del Poder Popular para Ciencia y Tecnología

Fundación Centro de Investigaciones de Astronomía "Francisco J. Duarte" (CIDA)



P-2021-0008

#### TO WHOM MAY IT CONCERN

Between the Centro Nacional de Tecnologías Opticas (CNTO), Venezuela, represented by their President, Dr. Pedro Grima Gallardo, and the Physical Sciences Research Center (PSRC), Pachunga University College, India, represented by Dr. Dibya Prakash Rai, it has been realized a fruitful research collaboration in the area of Materials Science resulting in the publication of several articles in internationally recognized journals in the last years.

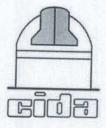
It is the scope of this scientific relationship to formalize the collaboration in an official convention between both laboratories to increase the interchange, for mutual benefit, in the next future. We are sure that this will be very profitable, not only for both institutions but also for both friendly countries, Venezuela and India.

Collaboration that is agreed and formalized on August 4, 2018.



Centro de Investigaciones de Astronomía (CIDA) Centro Nacional de Tecnologías Ópticas (CNTO)

PEG/m





Apartado Postal 264, Mérida 5101-A. Telf: (0274) 2450106 - 2451450 Fax: (0274) 2451587 Rif: G-20003519-6 / Nit: 0281333674

Principal

Pachhunga University College Aizawl: Mizoram



Coordinator Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University)

O'ZBEKISTON RESPUBLIKASI OLIY VA O'RTA MAXSUS TA'LIM VAZIRLIGI ISLOM KARIMOV NOMIDAGI TOSHKENT DAVLAT TEXNIKA UNIVERSITETI

MINISTRY OF HIGHER AND SECONDARY SPECIALIZED EDUCATION OF THE REPUBLIC OF UZBEKISTAN TASHKENT STATE TECHNICAL UNIVERSITY NAMED AFTER ISLAM KARIMOV

**O'ZBEKISTON-YAPONIYA YOSHLAR** INNOVATSIYA MARKAZI

100095, Toshkent sh., Universitet ko'chasi, 2B uy, email: ujicy.gov@gmail.com

No

#### **UZBEK-JAPAN** INNOVATION CENTER OF YOUTH

University str. 2 B, Tashkent city, 100095 email: ujicy.gov@gmail.com

2020 г.

To whom it may concern

It is my great pleasure to inform you that we have a strong and productive collaboration on mechanism sulvanite nanoparticles growth in solution with Dr. Dibya Prakash and Dr. Lalhriatzuala.

The properties of sulvanite nanoparticles discuss in terms of theoretical methodology focused on the ab initio calculation. Based on our experimental results, Dr. Dibya Prakash and Dr.Lalhriatzuala predict that the state of crystalline structure is more stable. With future our coloboration we will submit manuscript to peer reviewed journal.

If you need any additional information, please contact with me. Sincerely Yours, Dr. Oksana Ismailova

Signature of Dr. Oksana Ismailova confirmed by Dr. Nargiza Amirova

Principal

Pachhunga University College Aizawl : Mizoram



Coordin Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University)

Тел.: +998909194890

# Report on Faculty Exchange Programme – cum- Special Lecture of Department of History of Pachhunga University College, Aizawl and Government of J Buana College, Lunglei

Date: October 27-28, 2021

Mode : Online (Zoom)

Participating faculties:

1. Prof. J Zorema, Principal, Govt. J Buana College, Lunglei – Special Lecture on October 28, 2021

2. Dr Rohmingmawii, Assistant Professor – Historiography on October 27, 2021

3. Dr Esther Laltlankimi, Assistant Professor – Modern India I on October 28, 2021

4. Rothangliana, Assistant Professor - Early Modern Europe on October 27, 2021

5. Dr Lalzarzoa, Assistant Professor-History of North East India (1822-1986) on October 28, 2021

Participating students:

Semester V students with History as core subject.

Closing function with special lecture on October 28, 2021

Chair: H.S Lalsangpuia, HoD, Department of History, PUC

Short speech : Dr B Lalrinchhani, HoD, Dept of History, Govt. J Buana College

Special lecture : Prof. J Zorema, Eminent Historian & Principal, Govt. J Buana College

Concluding remarks: Dr Rohmingmawii, Assistant Professor, Dept of History, PUC

(Function video available at https://youtu.be/ZbaKXzZSTJo)

# **Department of History**

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# FACULTY EXCHANGE PROGRAMME CUM SPECIAL LECTURE

27-28 October 2021

History Paper 5: Modern India - I

History Paper 6: Historiography

History Paper 7: Early Modern Europe

*History Paper 8: History of Northeast India (1822-1986)* 





Rothangliana Government J. Buana College History Paper 7 10:00 AM, 27 October 2021



Dr. Lalzarzoa Government J. Buana College History Paper 8 11:00 AM, 27 October 2021



Dr Esther Laltlankimi Pachhunga University College History Paper 5 10:00 AM, 28 October 2021



Dr. Rohmingmawii Pachhunga University College History Paper 6 11:00 AM, 28 October 2021

# **Department of History**

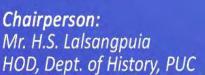




# FACULTY EXCHANGE PROGRAMME CUM SPECIAL LECTURE

# **Closing Function:**

Date: 28 October 2021 Time: 7:30 PM



*Short Speech:* Dr. B. Lalrinchhani HOD, Dept. of History, GJBC

**Special Lecture:** Prof. J. Zorema Eminent Historian & Principal, GJBC

Concluding Remarks: Dr. Rohmingmawii Asst. Prof., PUC





Chairperson: Mr. H.S. Lalsangpuia Head of Department Dept. of History, PUC



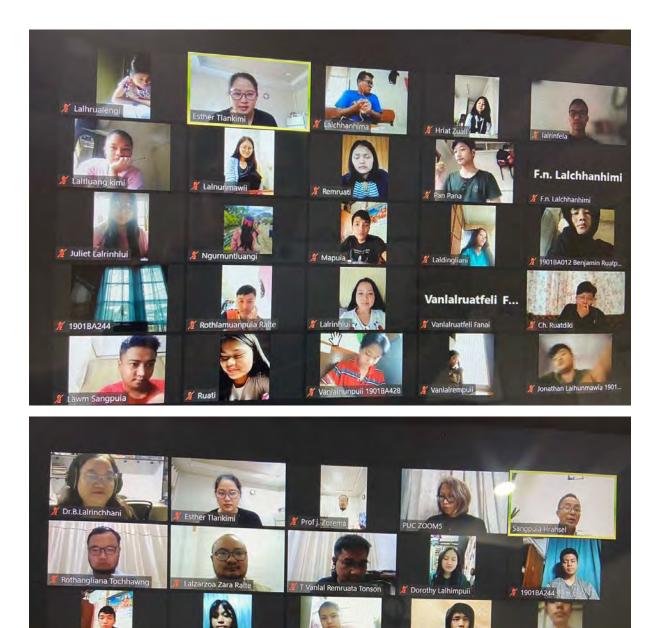
Short Speech: Dr. B. Lalrinchhani Head of Department Dept. of History, GJBC



Special Lecture: Prof. J. Zorema Eminent Historian & Principal, GJBC



Concluding Remarks: Dr. Rohmingmawii Asst. Prof., PUC



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(H. S. LALSANGPUIA) Head Department of History



# Soil and Agro Bioengineering Laboratory

Dr. Satya Sundar Bhattacharya Assistant Professor

Department of Environmental Science Tezpur University Napaam – 784028 Assam, India

Date:01.05.2020

#### TO WHOM IT MAY CONCERN

This letter testifies the academic cum research collaboration constituted between the two partners from two institutions: Tezpur University and Pachhunga University College (Mizoram University). Tezpur University is represented by Soil and Agro Bio-engineering Laboratory (Department of Environmental Science) which is headed by the undersigned. At Pachhunga University College (Mizoram University) the partnership is facilitated by Dr. Subhasish Das in the Department of Environmental Science.

Out of this fruitful collaboration, both these parties involved in mutual research endeavors materializing into sound publications in international journals. It is also understood that such an effort would help both these institutions achieve research milestones in the coming future.

101/5/2020

Assistant Professor Dept. of Environmental Science Tezpur University

Satya Sundar Bhattacharya, PhD

Phone: + 91-3712-267007/8/9 Extn.-5610, Cell: +91-9438184848 Email: satya72@tezu.ernet.in, Home page: www.sabelab.weebly.com

Principal

Pachhunga University College Aizawl : Mizoram





Coordinator Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University)

## त्रिपुरा विश्वविद्यालय TRIPURA UNIVERSITY (केन्द्रीय विश्वविद्यालय) (A CENTRAL UNIVERSITY)

सूर्यमणिनगर, अगरतला, त्रिपुरा, भारत Suryamaninagar, Agartala, Tripura, INDIA पिन Pin - 799022

फोन Phone : (0381) 237 4801 237 4803 237 5355 237 9004 237 4804 237 9005 फैक्स Fax : (0381) 237 4802 237 4804 ई-मेल e-mail : touffice@tripurauniv.in वेबसाइट website : www.tripurauniv.in

Τо,

### Dr. Dibya Prakash Rai

Department of Physics Pachhunga University College Aizawl, India-796001

Date: 22/02/2016

Sub: Letter of Invitation for Research Collaboration.

Dear Dr. Dibya Prakash Rai,

This is to state that I, Dr. Surya Chattopadhyaya, Associate Professor, Department of Physics, Tripura University, Agartala Tripura, is supportive to research works for studying of elastic, structural, optical and electronic properties of some multifunctional compounds using density functional theory (DFT). I also hope that this kind of collaborative works may enable in exchange ideas and greater scientific thoughts for the advancement of technology.

This letter may be treated as an official invitation of research collaboration in this field. I heartily welcome Dr. Rai and your group members to visit my research lab and carry out some sorts of computational work in the form collaboration.

I am ready to assist you for further execution of this kind of research work. I will extend all my possible help and available research facilities to carry out the above mentioned works. I wish you all the Good Luck !!!

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22/02/2016 Dr. Zurya Chattopadhya

Dr. Surya Chattopadhyaya Associate Professor Department of Physics Tripura University, Agartala, Tripura, India

Dr. Surya Chattopadhyaya Associate Professor Department of Physics Tripura University Central University



Coordinator Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University) 
 Phone:
 258836/258508(O)

 Fax
 :
 (03712)
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 2356(R)

 सभी पत्राचार केवल निदेशक को
 संबोधित करें / All

 Correspondence
 to be

 addressed to the Director only
 mail:director@drl.drdo.in



भारत सरकार, रक्षा मंत्रालय Govt of India, Min. of Defence रक्षा अनुसंधान प्रयोगशाला Defence Research Laboratory पोस्ट बैग नंबर 2 / Post Bag No. 2 तेजपुर, Tezpur, असम / Assam 784 001

## LETTER OF COLLABORATION

The Defense Research Laboratory Tezpur (DRL under DRDO) and Pachhunga University College (Mizoram University) had formalized a fruitful collaboration on this day, June 15<sup>th</sup> 2020. Dr. Subhasish Das from the Department of Environmental Science, Pachhunga University College (Mizoram University) is the co-partner in this collaboration with the undersigned. The collaboration has produced good research publications and some works are also in the pipeline. This collaboration is made truly for advancement of scientific research between the two institutions in the area of waste remediation and biomass management.

Under the purview of this scientific relationship both organizations would strive to increase the interchange of knowledge and man-power in the coming years.

15 06 2020. Sh. Utsab Deb

UTSAB DEB Scientist Sc 'D' DRL, Tezpur Defence Research Laboratory Tezpur, Assam Pachhunga University College Aizawl : Mizoram



Coordinator Internal Quality Assurance Cell Pachhunga University Collego (A constituent college of Mizeram University)



#### OFFICE QF THE PRINCIPAL GOVT. ZIRTIRI RESIDENTIAL SCIENCE COLLEGE (NAAC ACCREDITED : 2.75 CPGA) www.gzrsc.edu.in email : contact@gzrsc.edu.in Ramthar Veng, Aizawl. Pin – 796001. Ph. No 0389 2305848

No.A.28019/1/16-GZRSC (QAC)/46 : Dated Aizawl, the 24th May, 2021

To,

The Principal, Pachhunga University College. Mizoram : Aizawl

Sir,

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Greetings from Government Zirtiri Residential Science College.

I am pleased to learn that the Department of Geology, Government Zirtiri Residential Science College and the Department of Geology, Pachhunga University college are taking steps to work in collaboration for academic and research purpose.

Our Institute encourages these kind of academic and research activities. For this purpose, I am pleased to forward a draft of the memorandum of understanding between the two institutes which will define the nature of our collaboration. The MOU may be signed by both parties as early as possible.

Yours faithfully,

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(PROF. B.ZOLIANA) Principal Govt. Zirtiri Residential Science College

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#### MEMORANDUM OF UNDERSTANDING FOR ACADEMIC&RESEARCH COOPERATION

#### Between

Department of Geology Government Zirtiri Residential Science College And

> Department of Geology Pachhunga University College

#### Purpose

The purpose of this Agreement is to promote academic and research cooperation between the Department of Geology, Government Zirtiri Residential Science College and Department of Geology, Pachhunga University College.

#### **Types of Cooperation**

Through this memorandum, both Parties affirm the value of the academic and research collaboration and agree to promote the following activities:

- 1.1 Exchange of Teaching Faculty during the semesters as per their consent/ convenience.
- 1.2 Exchange of students as per convenience
- 1.3 Other activities as mutually agreed

This Agreement places no financial obligations or supplementary funding commitments on either Party. Subsequent program agreements must be approved in writing by the authorized representatives of each institution.

Terms

This Agreement will become effective upon the date of signature by both Parties.

i)It shall remain valid for a period of one (1) year from the date of the last signature, with the understanding that it may be modified or extended by written mutual consent of both Parties.

ii)This Agreement may be terminated by either Party with advance written notice of at least thirty (30) days.

iii)The agreement may be extended by mutual consent of the two Parties after the one-year period, and it must be renewed in writing.

This Memorandum of Understanding is hereby signed in two (2) copies with one (1) copy remaining in the possession of each institution.

(Dr. C.ZORAMTHARA)

Date: 02.06.2021

Head, Department of Geology Government Zirtiri Residential Science College Head Dept. of Geology Govt. Zirtiri Resi, Science College Aizawl : Mizoram

(Dr. SAITLUANGA) Head, Department of Geology Pachhunga University College

Head Department of Geology Pachhunga University College Aizawl, Mizoram

(Prof/BZOLIANA)

Date: 2.6.2021.

25.05.2021

Date:

Principal, Government Zirtiri Residential Science College

> Principal Govt.Zirtiri Resi.Sc.College Aizawl

(Prof. H.LALTHANZARA) Principal, Pachhunga University College Principal Pachhunga University College Aizawl : Mizoram

25.05.2021 Date:



## Special Programmes organised by the Department of Education, Pachhunga University College 2018

#### 'Academic Exchange Programme'

For the commemoration of P.U.C. Diamond Jubilee Celebration, an important programme was organised by the Department of Education, Pachhunga University College in collaboration with Government T. Romana College, Aizawl.

Academic Exchange Programme of V Semester students of Pachhunga University College and Govt T. Romana College was organised on 18<sup>th</sup> September 2018. 40 students from Pachhunga University College and 35 students from Govt. T. Romana College participated in the exchange programme. The students of Education Department, PUC went to Govt. T. Romana College for a day and the students of Govt. T. Romana College came to PUC for a day. Lecture sessions were conducted in the forenoon and lunch was provided to the students. Four teachers i.e. Dr. Lalthankungi, Mrs Susan Lalthanpuii, Mrs Lalrintluangi and Mrs Lalchhuanmawii delivered lectures on different topics of V Semester syllabus respectively. The same routine was followed at Govt. T. Romana college.

In the afternoon, both group of students came together at the Lecture Hall of Department of Education, Pachhunga University College, for Interaction Session and a tour of PUC Campus was organised for both groups. The students reported that the programme was different and exciting and they were supportive of conducting more programmes like this in the future.

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Coordinator Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University)

Principal

Principal Pachhunga University College Aizawi : Mizoram

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(Pic: V Semester Education Core students of Pachhunga University College and Govt. T.Romana College at Academic Exchange Programme organised on 18. 9. 2018 at Pachhunga University College, College Veng, Aizawl, Mizoram 796005, India. Latitude N 23° 43' 21.3168'', Longitude E 92° 43' 31.7136'', 27.7.2017 2.30 pm.)

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(DR. LALTHANKUNGI) Head of Department, Department of Education, Pachhunga University College

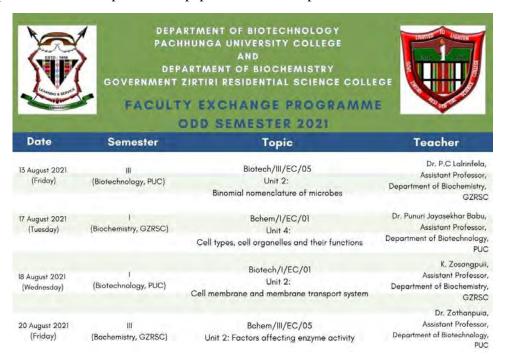
Coordinator Internal Quality Assurance Cell Pachhunga University College (A constituent college of Mizoram University)



Principal Pachhunga University College Aizawl : Mizoram

#### Faculty Exchange Programme 2021 between Department of Biotechnology PUC and Department of Biochemistry, GZRSC

**Biotechnology department, PUC** has signed an MoU with Department of Biochemistry, Government Zirtiri Residential Science College. Following the agreement, 2<sup>nd</sup> Teaching exchange between the two departments was organised during 13<sup>th</sup> August, 2021 to 20<sup>th</sup> August, 2021. Dr Zothanpuia and Dr Punuri Jayashekar Babu from PUC and Dr PC Lalrinfela and Ms K Zosangpuii from GZRSC presented a paper on selected topics.



#### Schedule of the faculty exchange programme for odd semester 2021



Dr PC Lalrinfela from GZRSC delivered a lecture on "Nomenclature of Microbes" on 15<sup>th</sup> August 2021



Dr Punuri Jayashekar Babu from PUC delivered a lecture on "Cell type, organelles and their functions" on 17<sup>th</sup> August 2021



Ms K Zosangpuii from GZRSC delivered a lecture on "Cell membrane and membrane transport system" on 18<sup>th</sup> August 2021



Dr Zothanpuia from PUC delivered a lecture on "Factors effecting enzyme activity" on 20<sup>th</sup> August 2021

(Dr. ZOTHANPUIA)

Assistant Professor Department of Biotechnology Pachhunga University College Aizawi, Mizoram वतीय सुरम् संयदम संस्थाम व्याहरू संयदम संस्थाम व्याहरू उक्का व प्राहरू उक्का प्राह प्राहरू का विक्र हिन्द्राका क्रम्म का विक्र हिन्द्राका



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Ceterature 246 257 Julia Seconare +51-135 ISJACE Far +55-256-774-565 274600

Prof. P.L.N. Raju Group Head, Program Planning and Evaluation Group & Project Manager, IIRS Outreach Program

Ref: EDUSAT/Coordinator/2015

Date: June 26, 2015

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Or Kulendra Chandra Das** Department of Environmental Science (PUC), Mizoram University, Aizawi. He coordinated the IIRS Satellite Based course on "Basics of RS, GIS & GNSS" during August 4 – November 14, 2014 conducted by this institute.

Palkan 2

(P. L. N. Raju)

Coordinator

Internal Quality Assurance Cell Pachhunga University Collegn (A constituent college of Mizoram University)

भारतीय अंतरिस अनुसाधान संगठन



grant area Indian Space Research Organisation

Principal Pachhunga University College Aizawl : Mizoram

International Journal of Community Medicine and Public Health Ralte R et al. Int J Community Med Public Health. 2021 Mar;8(3):1445-1453 http://www.ijcmph.com

pISSN 2394-6032 | eISSN 2394-6040

# **Original Research Article**

DOI: https://dx.doi.org/10.18203/2394-6040.ijcmph20210842

# Anxiety and panic buying during COVID-19 pandemic among the Mizo

Rinpari Ralte<sup>1</sup>, Arun Tipandjan<sup>2</sup>, Mary Ann L. Halliday<sup>3\*</sup>, C. Zothanmawia<sup>4</sup>, Ritu Modi<sup>5</sup>, Devi R. Nithiya<sup>6</sup>

<sup>1</sup>Department of Psychology, Mizoram University, Pachhunga University College Campus, Aizawl, Mizoram, India

<sup>2</sup>Department of Research, Cross-Cultural Psychologist, Research Psychologist, International centre for Psychological Counselling and Social Research, Puducherry, India

<sup>3</sup>Department of Psychology, St. Xavier's College, Lengpui, Mizoram, India <sup>4</sup>Department of Psychology, Mizoram University, Tanhril, Mizoram, India

<sup>5</sup>Department of Psychology, University of Allahabad, Prayagraj, Uttar Pradesh, India

<sup>6</sup>Department of Physiology, Mahatma Gandhi Medical College and Research Institute, Sri Balaji, Vidyapeeth,

Received: 14 January 2021 Accepted: 10 February 2021

\*Correspondence: Dr. Mary Ann L Halliday, E-mail: maryann.lh@gmail.com

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#### ABSTRACT

Background: Certain behaviours have been observed since the beginning of the COVID-19 pandemic, such as buying and storing a lot of basic food and necessities, or hours spent obsessing over the virus. This research aims to assess the impact of the COVID-19 pandemic on the lives of the people living in Mizoram, a small north-eastern state in India, regarding psychological factors such as coronavirus anxiety and panic buying.

Methods: A total of 300 samples aged 20-66 years (150 males and 150 females) participated in the online survey. Those who consented to participate filled the forms which included socio-demographic details, as well as the Corona Virus Anxiety Scale and the Panic Buying Scale.

Results: Correlation analysis revealed significant positive correlations (r=0.21, p<0.000) between Coronavirus Anxiety and Panic Buying. Socio-demographic variables such as age (r=-0.12, p<0.05) and spirituality (r=0.13, p<0.05) are significantly correlated with panic buying, whereas number of family members was found to be significantly correlated (r=0.14, p<=0.05) with Coronavirus anxiety. Furthermore, females scored significantly higher than males in Coronavirus anxiety (p<0.002) and Panic Buying (p<0.007). Analysis also revealed that the number of hours spent in thinking about COVID-19 has a significant impact on Coronavirus Anxiety, and that growth in budget significantly influences Panic buying.

Conclusions: One vital policy implication of the present study is that during a pandemic the government and other responsible organizations should ensure delivery of only factual data about COVID-19 and also reassure people about the adequacy of essential commodities so that panic buying is not rampant.

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Keywords: COVID -19, Coronavirus anxiety, Mizoram, Pandemic, Panic buying

#### INTRODUCTION

The Coronavirus disease 2019 (COVID-19) has emerged as a public health crisis globally.<sup>1,2</sup> One phenomenon not seen in earlier outbreaks, is that of panic buying during the current COVID-19 pandemic, which has been linked to the perception of scarcity,3-6 Amidst uncertainties when 5

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crises occur, it is common for people to engage in purchasing as many basic needs as possible, to have a sense of control.7,8 The reason for the phenomenon may be that of a remedial response to reduce fear and anxiety that may arise from losing control over the world around them's It may be a method of preparation, caused by the primitive part of our brain, for survival.9,10

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Over the last two decades, one very important effect that has been observed consistently is that infectious pandemics have on mental health and well-being, which is also being seen in the current COVID-19 pandemic.11-13 Majority of the available literature has focused on common mental health problems such as depression, anxiety, stress, substance use, loneliness and its impact in general population as well as vulnerable groups such as frontline health care workers, homeless, elderly and pregnant women.12

A number of studies highlighted that depression, anxiety, and stress were prevalent among the Indian population during the COVID-19 lockdown.3,13,14 As far as the COVID-19 pandemic is concerned, what is alarming is the heightened fear related to the coronavirus culminating in people committing suicides.15,16

The emergence and spread of COVID-19 worldwide, has been seen to cause confusion, anxiety and fear among the general public, which has often been observed to be the breeding ground for hatred and stigma.17 A very distressing observation of the rise of social stigma and discrimination is that of certain populations (Indian northeast people) being targeted as the reason for the COVID-19 outbreak.18

A number of myths and fake news about the treatment of COVID-19 are spreading through social media platform, which can be disturbing for certain individuals. A certain degree of panic has been found in the public, which may be the result of living in a densely populated country with limited healthcare services, like India.18

Mizoram, a small north-east Indian state, saw its first case of COVID-19 on 24th March, 2020, at the start of complete lockdown throughout the whole country. The one positive case in the state was cured during the 3rd lockdown, and till the end of the fourth lockdown, Mizoram had no other positive cases. With a large number of Mizos who were stranded in different parts of the country coming home and preparing to come home during this time, the whole state prayed to have no new positive cases. With uncertainty of the future and tense waiting for further announcements of lockdowns by the Government, a sense of anxiety and panic buying was witnessed amongst the people of the state. Then, as the whole country started facing the 5th lockdown, the news of positive cases from the samples tested from those who had returned home from different states hit Mizoram on 2nd June, 2020. Since then, the number of positive cases rose every day, most of them being asymptomatic, all of them returnees from other states. As on 17th June, 2020, out of a total of 6035 samples tested, the number of positive cases had risen to 121, with only 1 cured and discharged case, but no deaths so far.19 However, even as the fear of community transmission (if and when it would happen) loomed in the minds of the people, the pandemic has witnessed the collective contributions of different people in the community, to help each other and fight

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against the disease which has caused so much disruption in their daily lives.

This study aims to assess the impact of the COVID-19 pandemic on the lives of the people living in Mizoram, a small north-eastern state in India, regarding psychological factors such as coronavirus anxiety and panic buying. So far, no research has been published on panic buying and coronavirus anxiety in Mizoram. With this background, the present study is carried out with the following objectives in mind:

To assess panic buying behaviour and coronavirus anxiety, and their socio-demographic correlates in the Mizo population during the COVID-19 outbreak.

To analyse the relationship between panic buying behaviour and coronavirus anxiety among the Mizo population.

To assess gender differences in panic buying behaviour and coronavirus anxiety among the Mizo population.

To examine the socio-demographic variables responsible for Coronavirus anxiety and panic buying among the people living in Mizoram.

#### METHODS

#### Study design and participants

The study was conducted from the 22nd of May 2020 to 17thJune 2020, using convenience sampling technique. Data was collected through web-based online survey. The questionnaires were forwarded through Google forms, with a consent form appended to it. Those who consented to participate filled the forms which included sociodemographic details, as well as the Corona Virus Anxiety Scale and the Panic Buying Scale.

In total, 300 participants (150 males and 150 females), with the age range from 20-66 years took part in the online survey, completed the questionnaires and were included in the analysis.

#### Measures and tools

#### Demographics

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The socio-demographic variables included age, age group, gender, type of family, number of family members, religion, spirituality, education, employment status, occupation and monthly income, budget increase in grocery.

Respondents were also asked to respond to the following COVID-19 items: (i) time spent searching for information about COVID-19 on media in a day, and (ii) time spent

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thinking about COVID-19 per week. Likert type of response choices were provided to these items.

#### Corona virus anxiety scale<sup>20</sup>

The Corona Virus Anxiety Scale (CAS) is a brief mental health screener to identify probable cases of dysfunctional anxiety associated with the COVID-19 crisis. This 5-item scale discriminates well between persons with and without dysfunctional anxiety using an optimized cut score of  $\geq$  9 (90% sensitivity and 85% specificity).

#### Panic buying scale<sup>21</sup>

Panic Buying Scale (PBS) during COVID-19 pandemic is a scale to measure Panic buying which occurs when fear and panic influence behaviour leading people to buy more things than usual. It contains variables such as (1) panic buying, (2) impulse buying, (3) temporal focus, (4) optimism, (5) risk perception, (6) need for cognition. PBS has seven items and for each statement, the respondent has to point out the degree of disagreement or agreement, considering [his/her recent behaviour during the new coronavirus pandemic] (1 = "strongly disagree" and 7 = "strongly agree").

#### Statistical analysis

Data was analysed with SPSS Version 19.0. First, descriptive analysis was used to illustrate the sociodemographic and other selected characteristics of the respondents. Next, Spearman's correlation method was used to assess the correlations between sociodemographic variables, coronavirus anxiety, and panic buying. In addition, a univariate analysis (Nonparametric test) was used to explore the significant associations between socio-demographic variables and coronavirus anxiety as well as panic buying during the assessment period. A two-tailed p<.05 was considered statistically significant.

#### RESULTS

An online survey on coronavirus anxiety and panic buying was conducted in the Mizo population during the corona pandemic. A total of 300 respondents (150 males and 150 females) participated in the online survey, their age ranging between 20-66 years.

The socio-demographic characteristics of the respondents and the distribution of individual responses to coronavirus-related variables as well as the Mean and Standard Deviations are given in Table 1.

Variables	N	%	Mean	SD
Gender			(TCan	SU
Male	150	50		
Female	150	50		
Age	300		38.64	8.94
Young adults (20-30 years)	164	54.7	50.04	0.94
Middle adults (31-59 years)	131	43.7		
Old adults (above 60 years)	5	1.7		
Family type	300	2.17	1.42	0.67
Nuclear	185	61.7	1.42	0.57
Joint	103	34.3		
Living alone	12	4.0		
Religion	300		1.03	0.315
Christian	296	98.7	1.05	0.515
Hindu	1	0.3		
Lalhnam	1	0.3		
Atheist	1	0.3		
Rather not say	1	0.3	the second second	
Number of family members	300	010	5.85	2.69
.00	2	.7	5.05	2.09
1.00	6	2.0		
2.00	8	2.7	Annual Contraction	and the second s
3.00	32	10.7		
4.00	47			100
5.00	47 56 NIVE	5/718.7		
5.00	653	Not I		
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#### Table 1: Socio-demographic profile of rooms

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Variables				
7.00	N	%	Mean	SD
8.00	32	10.7		
9.00	24	8.0		
10.00	10	3.3		
11.00	13	4.3		
12.00	6	2.0		Composition of the second
13.00	7	2.3		
16.00	1	0.3		Sector Designed
17.00	1	0.3		
20.00	1	0.3	Mar Werter	
Education	1	0.3		
Primary	300		4.21	0.97
High school	2	0.7		0.71
Higher secondary school	17	5.7		A CONTRACTOR OF THE OWNER
Graduate	36	12.0		
Post-graduate	121	40.3		New Street
Mphil/PhD	108	36.0		
Employment	16	5.3		
Employed	300		1.33	0.72
Unemployed	240	80.0		0.72
Housewife	29	9.7		
Retired	24	8.0		100 C 100 C 10
Occupation	7	2.3		
Govt. Employed/ Private full-time employed	300		2.75	1.78
Business/ Self-employed	94	31.3		1.70
Teacher	64	21.3		
Contract/ Part-time	64	21.3		
Housewife	31	10.3		
Retired	20	6.7		
Others	3	1.0		1.1.1.2.2.1
Monthly income	24	8.0		
Rs.5000- Rs.20000	300		2.92	1.65
Rs.20001- Rs.35000	92	30.7		100
Rs.35001- Rs.50000	52	17.3	San Dizaka katal	
Rs.50001 - Rs.65000	36	12.0		
A ore than Rs.65000	29	9.7		
pirituality	91	30.3		
Totally disagree	300		8.91	2.30
and a state of the	11	3.7		
	1	0.3		
	2	0.7		
	1 ///	0.3		
	1	0.3		
	10	3.3		A CONTRACTOR
	6	2.0	and the second second	
	5	1.7		
A CONSIGN OF THE REAL PROPERTY OF	32	10.7		
- Totally agree	26	8.7		
adget increase in grocery	205	68.3		
o increase	300		1.75	0.63
wice	105	35.0		
hrice	166	55.3		
bur times	28	9.3		
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Variables	N	-		
Time spent searching for information about	N	%	Mean	SD
COVID-19 on media in a day	300		2.24	1.14
Less than 15minutes	97		2.27	1.11
16-30 minutes		32.3		
31minutes- 1 hour	82	27.3		
1-2 hours	85	28.3		
	24	8.0		
Time Spent thinking about COVID-19 per Week Less than 1 hour	300		2.78	1.20
1-2 hours	62	20.7		1.38
2-5 hours	75	25.0		
5-10 hours	80	26.7		
More than 10 hours	47	15.7		
viore dian 10 nours	36	12.0		

Table 2: Spearman's correlation between socio-demographic variables, CAS and PBS and reliability coefficients for CAS and PBS.

Variables		and the second se	
Gender	CAS_	PBS	Reliability (Cronbach Alpha)
Age	0.18**	0.16**	
Age Group	-0.02	-0.12*	
Type of Family	0.04	-0.05	
	-0.09	-0.02	
Number of family members	-0.14*	-0.03	
Religion	0.02	-0.07	
Spirituality	-0.04	0.13*	
Employment	0.02	0.08	
Job	-0.01	0.07	a construction of the second
Education	-0.04	0.03	
Monthly Income	-0.01	0.03	
Budget increase in grocery	0.05	and the second se	
Time spent searching for information about	0.05	0.28**	
COVID-19 on media in a day	0.08	0.04	
Time spent per week thinking about COVID-19	0.19**	0.15**	
CAS	x		0.73
PBS	0.21**	0.21**	0.53
=p<.05. **=p<.01)	0.21	x	0.90

=p<.05, \*\*=p<.01)

More than half of the respondents (54.7%) were young adults, 43.7% middle adults and only 1.7% old adults. 61.7% of the respondents live in nuclear families, 34.3% live in joint families and 4% live alone. 98.7% of respondents are Christians. The highest percentage of participants are graduates (40.3%), and 36% postgraduates. 80% of the respondents are employed, among which the highest percentages are Government employed or full-time employed in the Private sector (31.3%). 30.7% of respondents have a monthly income between Rs.5,000-Rs.20,000 and 30.3% earn more than Rs.65,000 per month.

Participants were asked to rate their spirituality on a 0-10 rating scale (0 being totally disagree, 10 being totally agree) and their responses show that the highest percentages of participants (68.3%) consider themselves to be spiritual persons. Most respondents (56%) reported a two-fold increase, 9% reported a three-fold increase, while 35% reported no increase in budget for groceries

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since the COVID-19 pandemic. With regards to the amount of time they spent each day in searching for information about COVID-19 on media, 87.9% of the participants reported spending less than 1 hour in searching for information about COVID-19, 8% reported spending about 1-2 hours each day, while 4% reported spending more than 2 hours per day for the same. 20.7% of participants reported spending less than 1 hour per week in thinking about COVID-19, 25% reported spending about 1-2 hours of their time per week, 26.7% reported spending about 2-5 hours per week, and 15.7% reported spending 5-10 hours while 12% reported spending more than 10 hours per week in thinking about COVID-19. (Table 1)

#### Correlation analysis

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Correlation between the socio-demographic variables and the two scales was assessed using Spearman's Correlation and the reliability was estimated for each of the translated sion of the tools used in the study i.e., CAS and PBS,

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using Cronbach's coefficient alpha.22 The results reveal that the reliability coefficient of the tests emerged to be satisfactory over the levels of analysis for the whole Table 3: Univariate analysis (Kruskal-Wallis test) of

sample, indicating the trust-worthiness of the tools used in the study.

s test) of socio-demographic	characteristics on Coronavirus anxiety and
panic buying.	coronavirus anxiety and

Variables	N CAS				PBS			
		Mean Rank	Chi Square	Р	Mean Rank	CHIG		
Gender					Mean Kank	Chi Square	Р	
Male	150	139.75			136.97	7.31	0.01	
Female	150	161.25	9.36	0.00	164.03			
Time Spent thinking about COVID-19					104.03			
Less than 1 hour	62	141.08			100.15			
1-2 hours	75	140.03		0.01	128.17	8.14	0.09	
2-5 hours	80	147.41	14.77		144.07			
5-10 hours	47	160.99	14.//	0.01	159.11			
More than 10 hours	36	181.71			171.14			
Budget Increase in Grocery				de nomen de la	156.28			
No increase	105	145.06			113.88	30.71	0.00	
Twice	166	154.61		0.07	171.54			
Thrice	28	141.68	7.11		And in case of the local distance of the loc			
Four times	1	285.50			158.80 271.50			
Spirituality	11	132.55			2/1.50			
.00	1	120.00						
1.00	2	189.00						
2.00	1	258.00			Contraction of the local distance	10.41	0.41	
3.00	1	298.00						
4.00	10	151.35						
5.00	6	143.00	16.36	0.09				
5.00	5	183.20						
7.00	32	149.31		1				
3.00	26	171.50						
0.00	205	146.90						
10.00	11	132.55		1				

Gender was found to be significantly and positively correlated with CAS (r= 0.18, p<.01) and PBS (r= 0.16, p<.01). Age was found to be significantly and negatively correlated with PBS (r=-.12, p<.05).

A significant negative correlation was also found between the number of family numbers and CAS (r = -.14, p<.05). Spirituality and PBS were also found to be significantly and positively correlated (r=.13, p<.05).

A significant positive correlation was also found between the budget increase for groceries and panic buying (r=.28, p<.01).

The amount of time spent per week in thinking about COVID-19 was found to be significantly and positively correlated with both CAS (r =.19, p<.01) and PBS (r=.15, p<.01). CAS and PBS were also found to be significantly and positively concelated (x=.21, p<.01). (Table 2)

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Univariate analysis of respondents in coronavirus anxiety and panic buying

Gender differences in CAS and PBS were analysed using Kruskal-Wallis Test and the results revealed significant gender differences in both CAS (p<.01) and PBS (p<.01), with females scoring significantly higher in both CAS and PBS. Since correlation analysis indicated a significant and positive correlation between the amount of time spent per week in thinking about COVID-19 with both CAS (r=.19, p<.01) and PBS (r=.15, p<.01), differences in CAS and PBS based on time spent thinking about COVID-19 per week were analysed using Kruskal-Wallis test and the results are shown in Table 3. Significant differences were found in CAS (p<.01), with participants who spent more than 10 hours a week in thinking about COVID-19 scoring the highest in coronavirus anxiety. However, no significant differences were found in Panic Buying.

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Since correlation analysis indicated a significant and positive correlation between Spirituality and PBS (r=.13, p<.05), between Budget increase in groceries and PBS (r=.28, p<.01), as well as the amount of time spent per week in thinking about COVID-19 with both CAS (r .19, p<.01) and PBS (r = .15, p<.01), differences in CAS and PBS based on time spent thinking about COVID-19 per week were analysed using Kruskal-Wallis test and the results are shown in Tables 3.

No significant differences were found in CAS and PBS based on Spirituality. However, results showed a significant difference in Panic Buying based on differences in Budget Increase in groceries (p<.01). Respondents reporting four times increase in budget tend to indulge in panic buying more than those having lesser increase in grocery budget (Table 3).

#### DISCUSSION

This study was conducted to assess panic buying behaviour and coronavirus anxiety, and their sociodemographic correlates in the Mizo population during the COVID-19 outbreak. This is the first scientific literature that highlights the impact of COVID-19 crisis in a sample of the Mizo population. The findings of the study indicated that women have higher levels of coronavirus anxiety, and thus indulging in panic buying more than men. This could be because Mizo women, like their counterparts in various parts of the world, engage in multiple roles - being a mother, a wife, and a homemaker. Moreover, most Mizo women are bread winners of the family, working from dawn to dusk and the fact that they have to work even during the COVID-19 pandemic may have specifically contributed to the higher levels of coronavirus anxiety reported by them. This naturally incites them to indulge in panic buying to maintain a constant supply for their family. This finding is consistent with other studies in different parts of the world which have found females more likely to be anxious than males.23-26

Moreover, the findings of the present study highlight that the age of the participants is negatively associated with panic buying. Perhaps, for younger participants the fear of not being able to procure basic necessities may have aggravated the need to buy more items than the usual. Spirituality is also found to be positively associated with panic buying. The Mizo community in essence is built on spirituality and most of their behaviour is influenced to a certain extent by this. Those who reported themselves to be more spiritual may have a tendency to procure more items as a form of sustenance to take care of their families which according to them may have been a very spiritual act. Further, budget increase in grocery and the time spent thinking about COVID-19 per week are found to be significantly and positively associated with panic buying. Thus, increase in grocery budget and increase in time spent thinking about COVID-19 resulted in more panic buying.

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Several explanations have been highlighted for panic buying.<sup>4</sup> Firstly, the desire to maintain regular routines versus uncertainty about the duration of the pandemic may lead to anxiety and panic buying. Secondly, trying to maintain stability through stocking of food and other basic necessities for the family may be a coping response. Such psychological responses may have aggravated due to the increase in social media and digital connectivity which has improved considerably since the earlier outbreaks of SARS/MERS, H1N1 pandemic.27 Researchers have also suggested the need for the media to be more careful and responsible in their reports of panic buying, so as not to cause panic among the public.28 Presenting information and data is important for the public to make informed decisions. In accordance with the social learning theory, too much information - both reading material and visuals - of empty shelves in supermarkets may lead to more panic buying.4.28 Furthermore, it is often observed that the mistrust of public representatives and government that people in developing countries have, may lead to panic buying when rumours of the pandemic spread.29

Findings also manifested that the number of family members is negatively associated with coronavirus anxiety. Social support provided by members of a large family could lead to emotional strength in times of a crisis such as a pandemic, resulting in low anxiety. Furthermore, the time spent thinking about COVID-19 has a significant impact on the level of coronavirus anxiety the respondents experienced. The more the hours spent in thinking about COVID-19 per week (more than 10 hours) the higher the coronavirus anxiety. Continuous thinking about a particular topic may result in the desire to gain more information about that topic through media exposure for instance. The exposure to media, especially false information and false reports about COVID-19 have been linked to anxiety and depressive symptoms in the general public, which has been noted even in previous events such as the 9/11 terrorist attack, the Boston Marathon Bombings, and the 2014 Ebola epidemic.30-32

A survey conducted by the Indian Psychiatry Society during the beginning of lockdown indicates 20% rise in patients suffering from mental illness.33 Researchers have found that the fear of infection during epidemics may result in anxiety, stress, depression, etc.34 Studies in China and Spain have also reported severe psychological distress (anxiety, stress, and depression) during COVID-19.3.23,35 Poor mental health status has also been linked to different causes of worry, such as inadequate supply of masks and not being able to work from home, for being infected by COVID-19 in Hong Kong.36 High level of anxiety, preoccupation with thoughts of the COVID-19 pandemic, sleep difficulties, paranoia and distress related social media has also been reported in the Indian population.17 A study indicated that people who do not have enough supplies to sustain the lockdown were most affected, and the prosperity of a family was found to be negatively correlated with stress, anxiety, and

depression.

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Limitations: The current study has several limitations. Firstly, the sample chosen through convenience sampling may not represent the Mizo population. With regards to the data collection method, using online tools (Google Forms) may under represent older participants, as well as the underprivileged since they may not be technology savvy and may not have internet facility to participate in the study.

As mentioned, the study is limited to the people who had smartphones, e-mail IDs and the ability to read. This represents the educated population of the state, so the study findings in the present study might not be generalizable to other populations.

Moreover, all the responses were self-reported, and this could cause recall bias. Furthermore, pre-existing diagnoses of depression and anxiety could not be ascertained since the study was conducted online. So it was not possible to control them during the analysis

#### CONCLUSION

In conclusion, the findings of the present study suggested that there is gender difference in coronavirus anxiety and panic buying behaviour among the Mizos. Furthermore, socio-demographic factors such as age, number of family members, spirituality, budget increase in grocery, times spent thinking about COVID-19 in a week are all associated with coronavirus anxiety and panic buying. One vital policy implication of the present study is that during a pandemic the government and other responsible organizations should make use of the digital platforms to deliver, in a timely manner, only factual data about COVID-19 and also reassure people about the adequacy of essential commodities so that panic buying is not rampant.

The promotion of positive psychosocial support to the citizens should be a chief concern during a pandemic. This can be done through media platforms, as well as supplying printed brochures and flyers about the nature and impact of COVID-19 on mental health. Increase in psychological distress is a common phenomenon during pandemics, and therefore awareness programs to address the mental and physical health concerns of people should be the main objective. Finally, to prevent unwanted occurrences of the phenomenon during public health emergencies, further empirical studies may be undertaken so that preventive measures are taken up. Responsible media reporting guidelines may be developed to reduce fear and panic among the readers as reports of panic buying could lead to panic buying and stockpiling of goods and commodities.

Strengths of the study: Empirical studies related to panic buying behaviour and coronavirus anxiety is scarce as far as the Mizo population is concerned. To the best of our knowledge, this study is the frontrunner in research about  $V \in R$  sto corona virus anxiety and panic buying in Mizorana. This study would contribute to existing literature and/serve as a baseline research for future projects during pandemics.

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Principal Pachhunga University International Journal of Community Medicine and Public Health | March 2021 Pacity University College Aizawl : Mizoram

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Coordinator Internal Quality Assurance Cell Pachhunga University College

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2021 | Vol & Isserinc Page 1453 Pachhunga University College Aizawl : Mizoram

# NATIONAL LOGISTICS

# DAILY SERVICE BY : AIR, RAIL & ROAD

Head Office : 8, Tarachand Dutta Street, Kolkata - 700 073, West Bengal, Phone : (033) 4068 2145 Mob 9830360778, E-mail : national\_logistics8@yahoo.co.in, Website : www.nationallogisticsgroup.com

Date: 12-11-2021

### TO WHOMSOEVER IT MAY CONCERN

This is certify thatMr. <u>Abhinav Sharma</u>, studying in 05<sup>th</sup> Semester BBA at the Pachhunga University College, Mizoram University has successfully completed his internship from <u>01<sup>31</sup></u> <u>July, 2021</u> to <u>31<sup>th</sup> August, 2021</u> assisting in Accounting & Operational work, drafting and Marketing work.

During the period of his internship, he completed extensive research pertaining to road transport and logistics industry, Curried day to day operations; he has completed all his tasks with good enthusiasm and openness to learning. He is capable and committed to her work.

I wish her all the very best for his future endeavors.

Date:

Place: Kolkata LOCISTICS CATIONAL (National Logistics) Propriete

Branches : SILIGURI, COOCH-BEHAR, GUWAHATI, TINSUKIA & ALL NORTH-EAST ALL OVER INDIA SERVICE PART LOAD & FULL LOAD





# **CERTIFICATE OF COMPLETION**

This is to certify that

# Angeli Ramengmawii

has successfully completed an Internship program with Mission Organic Mizoram Agriculture Department, Government of Mizoram.

ROHMINGTHANGA COLNEY Mission Director

LALIIMINGMUANA State Coordinator

Bajaj Allianz Life Insurance Company Limited

#### TO WHOMSOEVER IT MAY CONCERN

This is certify that Mr.<u>C.Lalremruata</u>, studying in  $05^{th}$  Semester BBA at the Pachhunga University College, Mizoram University has successfully completed his internship from <u>01<sup>st</sup> July, 2021</u> to <u>31<sup>th</sup> August</u>, <u>2021</u> assisting in Operational work, drafting and Marketing work.

During the period of his internship, he has completed extensive research pertaining to life insurance industry, Curried day to day operations And Marketing activity under ASM Samar Bhowmik, Bajaj Allianz Life Insurance. he has completed all his tasks with good enthusiasm and openness to learning. He is capable and committed to his work.

I wish his all the very best for his future endeavors.

Date: 14/12-2024 Place: Dharmanagar

Samar Bhowmik ASM BAJAJ ALLIANZ

Symar Charamile.



TiLi Center 2nd Floor, JL Building Mission Veng Aizawl, Mizoram 796005

+91 9362538685 harthilthlentu@gmail.com



# Tharthilthlentu Entrepreneurship & MSME Support

LTL Fela Chairman +91 8691045340 fela.ltl@liml.org

J Zoramsangkima Secretary +91 8787300401 jsangkimas@gmail.com

Lalbiakngheta Ralte Treasurer +91 8730919935 mzfocusproduction@gmail.com

### CERTIFICATE OF COMPLETION

This is to certify that Mr. C. Lalruatkima, a student of BBA, Pachhunga University College, College Veng, Aizawl, has successfully completed three months (from August to October) of internship programme at *Tharthilthlentu - Entrepreneurship & MSME Support*.

During the period, he worked on Market Research and Impact analysis on 'Chengrang leh Ngenmu' where he was found punctual and his attitude towards his work was satisfactory.

We wish him success in life.

LTL Fela Chairman Tharthilthlentu



# **CERTIFICATE OF COMPLETION**

This is to certify that

# Caleba Lalchhandama

has successfully completed an Internship program during September 2021 with Mission Organic Mizoram Agriculture Department, Government of Mizoram.

ROIIMINGTILANGA COLNEY Mission Director

LALIIMINGMY ANA State Coordinator



# CERTIFICATE OF COMPLETION

This is to certify that

Carolyn Zomuanpuii

has successfully completed an Internship program with Mission Organic Mizoram Agriculture Department, Government of Mizoram.

ROHMINGTHANGA COLNEY Mission Director

LALIIMINGMU ANA State Coordinator



This is to certify that

# Ch. Lalramzauvi

ROHMINGTHANGA COLNEY Mission Director

LALIIMINGMUANA State Coordinator



Branch	:	Aizwal Branch
Email	:	Aizwal@bankofbaroda.com
Web	:	www.bankofbaroda.com
Phone	:	0389-2306108
Fax	:	

Date : 02.09.2021

#### To Whom It May Concern

This is to certify that Mr. Frederick Lalremruata BBA Student of Pachhunga University College, Aizawl Mizoram has successfully completed his internship /project on "Performance Analysis of Mudra Loan Scheme of Bank of Baroda (With special reference with the state of Mizoram)" from 01.07.2021 to 31.08.2021

During the period of his internship, he was sincere, hardworking and showed keen interest to learn. We wish him good for his future endeavours.

**कृते बैंक** ऑफ़ बड़ौदा For Bank of Baroda संयुक्त प्रबंधक / Joint Manager आइजोल शाखा/Aizwal Branch

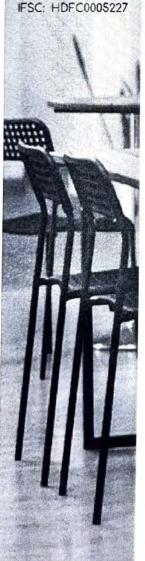
Lalfakzuala Khiangte Assistant Manager Bank of Baroda, Aizawl Branch



TiLi Center 2nd Floor, JL Building Mission Veng Alzawl, Mizoram 796005

+91 9362538685 tharthilthlentu@gmail.com

Bank Details HDFC Bank A/c no: 50200057930719 IFSC: HDFC0005227



#### Tharthilthlentu Entrepreneurship & MSME Support

LTL Fela Chairman +91 8691045340 fela.ltl@iiml.org J Zoramsangkima Secretary +91 8787300401 jsangkimas@gmail.com Lalbiakngheta Ralte Treasurer +91 8730919935 mzfocusproduction@gmail.com

#### CERTIFICATE OF COMPLETION

This is to certify that Mr. Imanuel VL Hmingtanzela, a student of BBA, Pachhunga University College, College Veng, Aizawl, has successfully completed three months (from August to October) of internship programme at *Tharthilthlentu - Entrepreneurship & MSME Support*.

During the period, he worked on concept building of 'Education & Carrier Platform' where his contribution and his attitude towards his work was satisfactory.

We wish him success in life.

LTL Fela Chairman Tharthilthlentu



This is to certify that

# JEREMY LALSAWMZUALA

has completed an Internship program and his performance was excellent

Torangelik.

ZOSANGZELI Cite and an end Managing Director, a see a Ltd.





#### This is to certify that

# John Malsawmsanga

has successfully completed an Internship program with Mission Organic Mizoram Agriculture Department, Government of Mizoram.

ROHMINGTHANGA COLNEY Mission Director

LALHMING MEANA

State Coordinator

## JOHN VANLALHRUAIA

a student of Bachelor of Business Administration (BBA) Pachhunga University College, Aizawl, Mizoram has successfully completed 03 months (September - November 2021) Internship programme at Angel Business Promoters of Mizoram. During the period of his internship programme, he was found punctual, hardworking and inquisitive

12 21/21

J. Zoramsangkima Programme Officer



Mark Lalduhsaka Chief Executive Officer



This is to certify that

Lalchungnunga

ROHMINGTHANGA COLNEY Mission Director

LALIIMINGMPANA State Coordinator







This is to certify that

# Lalnunfela Varte

ROHMINGTHANGA COLNEY Mission Director

LALIIMINGMÉANA State Coordinator

### TO WHOMSOEVER IT MAY CONCERN

This is certify that Mr.<u>Lalrinawma</u>, studying in  $05^{th}$  Semester BBA at the Pachhunga University College, Mizoram University has successfully completed his internship from <u>01<sup>st</sup> July, 2021</u> to <u>31<sup>th</sup> August</u>, <u>2021</u> assisting in Operational work, drafting and Marketing work.

During the period of his internship, he has completed extensive research pertaining to life insurance industry, Curried day to day operations And Marketing activity under ASM Samar Bhowmik, Bajaj Allianz Life Insurance. he has completed all his tasks with good enthusiasm and openness to learning. He is capable and committed to his work.

1

I wish his all the very best for his future endeavors.

Date: 14 11 Place: Dharmanagar

Samar Bhowmik ASM BAJAJ ALLIANZ



Branch	0	Aizwal Branch
Email	**	Aizwal@bankofbaroda.com
Web	:	www.bankofbaroda.com
Phone	1	0389-2306108
Fax	1	

Date : 02.09.2021

### To Whom It May Concern

This is to certify that Mr. Lalsangpuia Sailo BBA Student of Pachhunga University College, Aizawl Mizoram has successfully completed his internship /project on "Performance Analysis of Prime Minister's Employment Generation Programme- PMEGP of Bank of Baroda (With special reference with the state of Mizoram)" from 01.07.2021 to 31.08.2021

During the period of his internship, he was sincere, hardworking and showed keen interest to learn. We wish him good for his future endeavours.

कृते बैंक ऑफ बुडौदा For Bank of Baroda संयुक्त प्रदेधके / Joint Manager आइजोल साखा/Arzwal Branch

Lalfakzuala Khiangte — Assistant Manager Bank of Baroda, Aizawl Branch





This is to certify that

# Lalthachungnunga

ROHMINGTHANGA COLNEY Mission Director

LALIIMINGMUANA State Coordinator



### **HLDL SOLUTIONS PRIVATE LIMITED**

Regn. Office: A-48, Sector –I, Char No. Road, Tuikual 'A', Aizawl Municipal Council Aizawl, Mizoram. MZ 796001 IN. Phone No.: 9774708151, 8415098997 Email: <u>hldlsolutions@gmail.com</u>

2rd November 2021

To,

Ms. Laltlanhlui

Subject: Certificate of Experience

This letter is to certify that Ms.Laltlanhlui has successfully completed her internship program for a period of **1month 15 days** with our organization. This internship tenure was from **16th August** to **1st October 2021**. The said intern was working with MizRun and was actively, diligently and sincerely involved in the projects and tasks assigned.

During this internship, we found the intern to be punctual and hardworking person.

Aluargi

(C.LALTHANTLUANGI) Human Resource Manager

## LUSHAI ORGANICS

Reiek, Mamit District Mizoram - 796501 email : lushaiorganics84@gmail.com



# Internship Certificate

This is to certify that

MS Dawngzela

a student of the Department of Management, Pachhunga University College, Aizawl, Mizoram has successfully completed Internship at Lushai Organics from 1<sup>st</sup> September, 2021 to 31<sup>st</sup> October, 2021.

During the period of her/his Internship programme with us, she/he had been exposed to different processes and was found diligent, hard working and inquisitive.

(H. LALCHHANHIMA) Chief Executive Officer

Date 15<sup>th</sup> November, 2021

#### TO WHOMSOEVER IT MAY CONCERN

This is certify that Miss. Mary Lalnunsiami, studying in  $05^{th}$  Semester BBA at the Pachhunga University College, Mizoram University has successfully completed her internship from <u>01<sup>st</sup> July, 2021</u> to <u>31<sup>th</sup> August, 2021</u> assisting in Operational work, drafting and Marketing work.

During the period of her internship, She has completed extensive research pertaining to life insurance industry, Curried day to day operations And Marketing activity under BDM Saikat Majumder, Bajaj Allianz Life Insurance. She has completed all her tasks with good enthusiasm and openness to learning. She is capable and committed to her work.

I wish her all the very best for her future endeavors.

Saikat Majumder BDM BAJAJ ALLIANZ

Date: 14/11/2021 Place: Dharmanagar

1







This is to certify that

# R. Malsawmsanga

ROHMINGTHANGA COLNEY Mission Director

LALIIMINGMUANA State Coordinator

Bajaj Allianz Life Insurance Company Limited

#### **TO WHOMSOEVER IT MAY CONCERN**

This is certify that Miss.**R.Vanlalruatkimi**, studying in 05<sup>th</sup> Semester BBA at the Pachhunga University College, Mizoram University has successfully completed her internship from <u>01<sup>st</sup> July, 2021</u> to <u>31<sup>th</sup> August , 2021</u> assisting in Operational work, drafting and Marketing work.

During the period of her internship, She has completed extensive research pertaining to life insurance industry, Curried day to day operations And Marketing activity under BDM Saikat Majumder, Bajaj Allianz Life Insurance. She has completed all her tasks with good enthusiasm and openness to learning. She is capable and committed to her work.

I wish her all the very best for her future endeavors.

Date: 14/11/2021 Place: Dharmanagar

Saikat Majumder BDM BAJAJ ALLIANZ

## LUSHAI ORGANICS

Reiek, Mamit District Mizoram - 796501 email : lushaiorganics84@gmail.com



# Internship Certificate

This is to certify that

Shirley Zosangpuii Pautu

a student of the Department of Management, Pachhunga University College, Aizawl, Mizoram has successfully completed Internship at Lushai Organics from 1<sup>st</sup> September, 2021 to 31<sup>st</sup> October, 2021.

During the period of her/his Internship programme with us, she/he had been exposed to different processes and was found diligent, hard working and inquisitive.

(H. LÁLCHHANHIMA) Chief Executive Officer

Date 15th November, 2021





This is to certify that

# Sunita Sharma

ROHMINGTHANGA COLNEY Mission Director

LALIIMINGMUANA State Coordinator

### **MIZORAM RURAL BANK**

Sairang, Aizawl District

Mizoram - 796410



### **INTERNSHIP CERTIFICATE**

This is to certify that

#### SUNITA LALLAWMZUALI

A student of the Department of Management Pachhunga University College, Aizawl, Mizoram

has successfully completed Internship at Mizoram Rural Bank: Sairang Branch

from 1st July, 2021 to 31th August, 2021.

During the period of her/his Internship programme with us, she/he had been exposed to different processes and was found diligent, hard working and inquisitive.

Date 23th November, 2021

For Mizoram Rural Bank

(MARGARET VANRAMNGHAKI)

Bank Manager Sairang Branch

#### TO WHOMSOEVER IT MAY CONCERN

This is certify that Mr.<u>T H Birajit Singh</u>, studying in  $05^{th}$  Semester BBA at the Pachhunga University College, Mizoram University has successfully completed his internship from <u>01<sup>n</sup> July, 2021</u> to <u>31<sup>th</sup> August</u>, <u>2021</u> assisting in Operational work, drafting and Marketing work.

During the period of his internship, he has completed extensive research pertaining to life insurance industry, Curried day to day operations And Marketing activity under BDM Saikat Majumder, Bajaj Allianz Life Insurance. he has completed all his tasks with good enthusiasm and openness to learning. He is capable and committed to his work.

I wish his all the very best for his future endeavors.

Date: 14/11/2021 Place: Dharmanagar

Saikat Majumder BDM BAJAJ ALLIANZ



# LUSHAI ORGANICS

Reiek, Mamit District Mizoram - 796501 email : lushaiorganics84@gmail.com



# Internship Certificate

This is to certify that

Vanlalnunkima

a student of the Department of Management, Pachhunga University College, Aizawl, Mizoram has successfully completed Internship at Lushai Organics from 1<sup>st</sup> September, 2021 to 31<sup>st</sup> October, 2021.

During the period of her/his Internship programme with us, she/he had been exposed to different processes and was found diligent, hard working and inquisitive.

(H. LALCHHANHIMA) Chief Executive Officer

Date 15th November, 2021

### TO WHOMSOEVER IT MAY CONCERN

This is certify that Kumari.**Zonunmawii**, studying in  $05^{th}$  Semester BBA at the Pachhunga University College, Mizoram University has successfully completed her internship from <u>01<sup>st</sup> July, 2021</u> to <u>31<sup>th</sup> August</u>, <u>2021</u> assisting in Operational work, drafting and Marketing work.

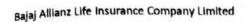
During the period of her internship, She has completed extensive research pertaining to life insurance industry, Curried day to day operations And Marketing activity under ASM Samar Bhowmik, Bajaj Allianz Life Insurance. She has completed all her tasks with good enthusiasm and openness to learning. She is capable and committed to her work.

I wish her all the very best for her future endeavors.

Date: 14/11\_2121 Place: Dharmanagar

Samar Bhowmik ASM BAJAJ ALLIANZ

Symax Doven 4.



#### BAJAJ Allianz

### TO WHOMSOEVER IT MAY CONCERN

This is certify that Miss. Zoremmawii, studying in  $05^{th}$  Semester BBA at the Pachhunga University College, Mizoram University has successfully completed her internship from  $01^{st}$  July, 2021 to  $31^{th}$  August, 2021 assisting in Operational work, drafting and Marketing work.

During the period of her internship, She has completed extensive research pertaining to life insurance industry, Curried day to day operations And Marketing activity under ASM Samar Bhowmik, Bajaj Allianz Life Insurance. She has completed all her tasks with good enthusiasm and openness to learning. She is capable and committed to her work.

1

I wish her all the very best for her future endeavors.

Date: 14/11\_2021 Place: Dharmanagar

Samar Bhowmik ASM BAJAJ ALLIANZ Sermar Chardmin,

# CERTIFICATE

THIS CERTIFICATE IS PROUDLY PRESENT TO

## ZOSANGZUALA

a student of

Bachelor of Business Administration (BBA) Pachhunga University College, Aizawl, Mizoram has successfully completed 03 months (September – November 2021) Internship programme at One Organic Partnership. During the period of his internship programme, he was found punctual, hardworking and inquisitive.

J. ZORAMSANGKIMA PROGRAMME OFFICER



MARK LALDUHSAKA EXECUTIVE DIRECTOR



TiLi Center 2nd Floor, JL Building Mission Veng Aizawl, Mizoram

796005

+91 9362538685

tharthilthlentu@gmail.com

### Tharthilthlentu Entrepreneurship & MSME Support

LTL Fela Chairman +91 8691045340 fela.ltl@iiml.org J Zoramsangkima Secretary +91 8787300401 jsangkimas@gmail.com Lalbiakngheta Ralte Treasurer +91 8730919935 mzfocusproduction@gmail.com

### CERTIFICATE OF COMPLETION

This is to certify that Mr. David Lalrinnunga, a student of BBA, Pachhunga University College, College Veng, Aizawl, has successfully completed three months (from August to October) of internship programme at *Tharthilthlentu - Entrepreneurship & MSME Support*.

Bank Details HDFC Bank A/c na: 50200057930719 IFSC: HDFC0005227



During the period he worked on Market Research and Social Media Marketing roles where he was found punctual, hardworking and inquisitive.

We wish him success in life.

LTL Fela Chairman Tharthilthlentu

## LUSHAI ORGANICS

Reiek, Mamit District Mizoram - 796501 email : lushaiorganics84@gmail.com



# Internship Certificate

This is to certify that

Lalremchhunga

a student of the Department of Management, Pachhunga University College, Aizawl, Mizoram has successfully completed Internship at Lushai Organics from 1<sup>st</sup> September, 2021 to 31<sup>st</sup> October, 2021.

During the period of er/his Internship programme with us, she/he had been exposed to different processes and was found diligent, hard working and inquisitive.

(H. LALCHHANHIMA) Chief Executive Officer

Date 15th November, 2021

## NATIONAL LOGISTICS

### DAILY SERVICE BY AIR RAIL & ROAD

Head Office: 8 Tarachan (1). Ital content Kilkata (2001) 11 West Bengal Phone (033) 4068 2145 Mob: 9830360778 Listan cat cal hight shijiyati (2001) Website www.cationalogisticsgroup.com

Date: 12-11-2021

### 10 WHOMSOFVER IT MAY CONCERN

This is certify that Mr ZD 1 mmanuel Lalthanzauya, studying in 05<sup>th</sup> Semester BBA at the Pachhunga University College Mizoran Entresity has successfully completed his internship trace  $01^{th}$  July, 2021 to  $31^{th}$  Yugust, 2021 construction Vectoring & Operational work, drafting and Marketing work.

During the period of his internship, he completed extensive research pertaining to road transport and logistics industry. Curried day to day operations, he has completed all his tasks with good enthusiasm and openness to learning. He is capable and committed to her work.

I such her all the very best for his future endeavors

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