

Ph – (0389) 2315212/2322257/2327095  
Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE**  
**(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)**  
**AIZAWL - 796001: MIZORAM**

Dated, Aizawl 28<sup>th</sup> April, 2017

**Certificate**

April , 2017

I hereby certify that the minor research project entitled '*Collection and Identification of Algal specimen from various sites*' is a record done by Lalnunsanga, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. VANLALHRUAI RALTE)  
Supervisor

Place: Aizawl

Date: 28<sup>th</sup> April, 2017

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Dated, Aizawl 28<sup>th</sup> April, 2017

**Certificate**

April , 2017

I hereby certify that the minor research project entitled '*Collection and Identification of Algal specimen from various sites*' is a record done by Vardingpuii, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. VANLALHRUAII RALTE)  
Supervisor

Place: Aizawl

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Dated, Aizawl 28<sup>th</sup> April, 2017

**Certificate**

April, 2017

I hereby certify that the minor research project entitled '*Collection and Identification of Algal specimen from various sites*' is a record done by H. Vanlalhriatpuia, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. VANLALHRUAII RALTE)  
Supervisor

Place: Aizawl

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Dated, Aizawl 28<sup>th</sup> April, 2017

**Certificate**

April , 2017

I hereby certify that the minor research project entitled '*Collection and Identification of Algal specimen from various sites*' is a record done by Lalchhanhimi, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. VANLALHRUAI RALTE)  
Supervisor

Place: Aizawl

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Dated, Aizawl 28<sup>th</sup> April, 2017

**Certificate**

April, 2017

I hereby certify that the minor research project entitled '*Collection and Identification of Algal specimen from various sites*' is a record done by Malsawmthanga, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. VANLALHRUAI RALTE)  
Supervisor

Place: Aizawl

Date: 28<sup>th</sup> April, 2017

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**AIZAWL - 796001: MIZORAM**

Dated, Aizawl 5<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by David Lalthianghlina, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
Supervisor

Place: Aizawl

Date: 5<sup>th</sup> March, 2017

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**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by Lalchhuanawma, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
Supervisor

Place: Aizawl

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Dated, Aizawl 5<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by Lalrinchunga, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
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Place: Aizawl

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Dated, Aizawl 5<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by K. Lianbuangpuii, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
Supervisor

Place: Aizawl

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Dated, Aizawl 5<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by Lalruatsangi, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
Supervisor

Place: Aizawl

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Dated, Aizawl 5<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by V.Malsawmtluangi, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
Supervisor

Place: Aizawl

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Dated, Aizawl 5<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by F.Vanlalrempuia, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
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**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by Lalmuanpuia, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
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March, 2017

I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by Vanlalvenhima, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
Supervisor

Place: Aizawl

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(Dr. H.S. THAPA)  
Head of Department

(Dr. H. LALRUATSANGA)  
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I hereby certify that the minor research project entitled '*Preparation of Algal culture medium and inoculation of Oscillatoria sp. and Lyngbya sp. to the medium*' is a record done by Lalvenpuii, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
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Dated, Aizawl 6<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by F.Rosangzuala, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. P.C. VANLALHLUNA)  
Supervisor

Place: Aizawl

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**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by Andrew Vanlalnghaka, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. P.C. VANLALHLUNA)  
Supervisor

Place: Aizawl

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**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by Immanuel Rualkhumliana, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

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March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by Lalhmingmawia, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
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(Dr. P.C. VANLALHLUNA)  
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Place: Aizawl

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Dated, Aizawl 6<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by PC.Zirsangzela, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. P.C. VANLALHLUNA)  
Supervisor

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(Dr. H.S. THAPA)  
Head of Department

(Dr. P.C. VANLALHLUNA)  
Supervisor

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Dated, Aizawl 6<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by Martin Lalhlimpua, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. P.C. VANLALHLUNA)  
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Dated, Aizawl 6<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by Deborah Vanremmawii, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(ZOTHANMAWIA)  
Supervisor

Place: Aizawl

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Dated, Aizawl 6<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by Lalngaihsaki Fanai, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(ZOTHANMAWIA)  
Supervisor

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Dated, Aizawl 6<sup>th</sup> March, 2017

**Certificate**

March, 2017

I hereby certify that the minor research project entitled '*Preparation of Tissue culture medium (MS) and inoculation of Green algae to the medium*' is a record done by Elizabeth Laltlanzovi, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(ZOTHANMAWIA)  
Supervisor

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(Dr. H.S. THAPA)  
Head of Department

(ZOTHANMAWIA)  
Supervisor

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Dated, Aizawl 24<sup>th</sup> October, 2017

**Certificate**

October, 2017

I hereby certify that the minor research project entitled '*Diversity of Moss in and around PUC Campus*' is a record done by K.M.Zochhuanpuia, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

Sd/-

(Dr. H.S. THAPA)  
Supervisor

Place: Aizawl

Date: 24<sup>th</sup> October, 2017

Ph – (0389) 2315212/2322257/2327095

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**PACHHUNGA UNIVERSITY COLLEGE**  
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Dated, Aizawl 24<sup>th</sup> October, 2017

**Certificate**

October, 2017

I hereby certify that the minor research project entitled '*Diversity of Moss in and around PUC Campus*' is a record done by B.C.Lalremruata, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

Sd/-

(Dr. H.S. THAPA)  
Supervisor

Place: Aizawl

Date: 24<sup>th</sup> October, 2017

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**PACHHUNGA UNIVERSITY COLLEGE**  
**(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)**  
**AIZAWL - 796001: MIZORAM**

Dated, Aizawl 24<sup>th</sup> October, 2017

**Certificate**

October, 2017

I hereby certify that the minor research project entitled '*Diversity of Moss in and around PUC Campus*' is a record done by Ruth Vanlalawmi, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

Sd/-

(Dr. H.S. THAPA)  
Supervisor

Place: Aizawl

Date: 24<sup>th</sup> October, 2017

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Fax No – (0389) 2315212



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**AIZAWL - 796001: MIZORAM**

Dated, Aizawl 24<sup>th</sup> October, 2017

**Certificate**

October, 2017

I hereby certify that the minor research project entitled '*Study of Diversity of Liverworts in and around PUC Campus*' is a record done by C.Lalrinchhuana, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

Sd/-

(Dr. H.S. THAPA)  
Supervisor

Place: Aizawl

Date: 24<sup>th</sup> October, 2017

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Dated, Aizawl 24<sup>th</sup> October, 2017

**Certificate**

October, 2017

I hereby certify that the minor research project entitled '*Study of Diversity of Liverworts in and around PUC Campus*' is a record done by Elizabeth V.L.Pangante, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

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Head of Department

Sd/-

(Dr. H.S. THAPA)  
Supervisor

Place: Aizawl

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Dated, Aizawl 24<sup>th</sup> October, 2017

**Certificate**

October, 2017

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Head of Department

Sd/-

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Place: Aizawl

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(Dr. H.S. THAPA)  
Head of Department

(R. VANLALPEKA)  
Supervisor

Place: Aizawl

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**Certificate**

October, 2017

I hereby certify that the minor research project entitled '*Pteridophytes diversity in Pachhunga University College Campus, Mizoram, India*' is a record done by Lalrinchhani, B.Sc. V Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
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(R. VANLALPEKA)  
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Place: Aizawl

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(Dr. H.S. THAPA)  
Head of Department

(R.VANLALPEKA)  
Supervisor

Place: Aizawl

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(Dr. H.S. THAPA)  
Head of Department

(ZOTHANMAWIA)  
Supervisor

Place: Aizawl

Date: 23<sup>rd</sup> October, 2017

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Place: Aizawl

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(ZOTHANMAWIA)  
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Place: Aizawl

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(ZOTHANMAWIA)  
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(Dr. H.S. THAPA)  
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(ZOTHANMAWIA)  
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Dated, Aizawl 21<sup>st</sup> Sept., 2017

**Certificate**

September, 2017

I hereby certify that the minor research project entitled '*A Survey of the Plant Diversity in Lungleng Village, Aizawl, Mizoram*' is a record done by Vanlalsiamthari, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. P.C. VANLALHLUNA)  
Supervisor

Place: Aizawl

Date: 21<sup>st</sup> September, 2017

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Head of Department

(Dr. P.C. VANLALHLUNA)  
Supervisor

Place: Aizawl

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Supervisor

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**Certificate**

September, 2017

I hereby certify that the minor research project entitled '*A Survey of the Plant Diversity in Lungleng Village, Aizawl, Mizoram*' is a record done by Martin Lalnunthara, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. P.C. VANLALHLUNA)  
Supervisor

Place: Aizawl

Date: 21<sup>st</sup> September, 2017

Ph – (0389) 2315212/2322257/2327095

Fax No – (0389) 2315212



**PACHHUNGA UNIVERSITY COLLEGE**  
**(CONSTITUENT COLLEGE OF MIZORAM UNIVERSITY)**  
**AIZAWL - 796001: MIZORAM**

Dated, Aizawl 21<sup>st</sup> Sept., 2017

**Certificate**

September, 2017

I hereby certify that the minor research project entitled '*A Survey of the Plant Diversity in Lungleng Village, Aizawl, Mizoram*' is a record done by Jacob Lalrohluna, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)

Head of Department

(Dr. P.C. VANLALHLUNA)

Supervisor

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September, 2017

I hereby certify that the minor research project entitled '*A Survey of the Plant Diversity in Lungleng Village, Aizawl, Mizoram*' is a record done by Francis Lalrempuia Chinzah, B.Sc. VI Semester, Department of Botany, Pachhunga University College and it has not formed the basis for the award of any degree, associate-ship or other similar title and that the project represents an independent work on the part of the Principal Investigator.

(Dr. H.S. THAPA)  
Head of Department

(Dr. P.C. VANLALHLUNA)  
Supervisor

Place: Aizawl

Date: 21<sup>st</sup> September, 2017