

(A Central University) www.tripurauniv.ac.in Suryamaninagar- 799022, Agartala, Tripura (W.), INDIA

Dr. Y. V. Krishnaiah, M. Sc., Ph. D (Geog.), M. Ed., M. Phil (Education),
Associate Professor & Head,
Mobile No. 91-9436608205
Department of Geography and Disaster Management

Email: yvkrishna09@gmail.com

Date: 20.08.2020

#### **CERTIFICATE**

I hereby certify that the dissertation entitled "Impact of physiographical features on cropping pattern of Pitra gang watershed of Gomati river, Tripura" submitted to the Tripura University for the partial fulfillment for the award of M.A./M.Sc degree for the academic year 2019-20 by Mr. Karan Chakma (Roll No. 1806100001) is the original and independent work carried out under my supervision and that the dissertation has not formed the basis fully or partially for the award of any degree, diploma or other any similar titles earlier at the time of submission.

Place: Tripura University Date: 20.08.2020

(Y. V. Krishnaiah) Supervisor

(Dr. Y. V. Krishnaiah)
Associate Professor & HEAD
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This is to certify that Miss Priya Debbarma, Roll no. 1806100002 has successfully completed her dissertation paper entitled "A comparative study of the health status of Scheduled Tribes and Non-Scheduled Tribes in Mohanpur and Hezamara block of Tripura" under my supervision for the partial fulfilment of paper GEDM 1002C (E), Group B (Population and Resources) of M.A/MSc. 4th semester Examination, 2020 in Geography and Disaster Management of Tripura University.

Dr.Mousami Debbarma

Signature of the Supervisor

डॉ मीसमी देवामाँ (टी. Mousami Debbarma) महायक प्रध्यापक /Assistant Profes भूगोल एवं आपदा प्रवेधक विकास प्रकृत of Geography and Disaster Mar Apparent कियार कियारिक मिलाना स्विकास स्वरूपकार

#### Dr. Nibedita Das(Pan)

Associate Professor



DEPARTMENT OF GEOGRAPHY AND DISASTER MANAGEMENT Tripura University (A Central University) Suryamaninagar, West Tripura. PIN - 799022 (0381) 237 9152 (Office), 9436134923 (Mobile) E-mail – nibeditadaspan@gmail.com, ndaspangeo@tripurauniv.in

20.09.2020

This is to certify that SRIPARNA DATTA, 4<sup>th</sup> Semester student of the Department of Geography and Disaster Management, Tripura University has completed her dissertation work entitled "HYDROLOGICAL AND MORPHOLOGICAL CHARACTERISTICS OF CHANNEL: A CASE STUDY OF DHALAI RIVER,TRIPURA" under my supervision for partial fulfillment of the PG Course GEDM-1002C (A) Fluvial Geomorphology Special Paper Practical (Dissertation Work). Her work is original and not submitted in any other university for academic purpose.

NXext. 20/09/2020

Dr. (श्रिके paid Pas (Pan) [Dr. Nibedita Das (Pan)] सह प्रदापक/Associate Professor भूगोल एवं आपदा प्रश्चन विभाग Dept. ज Geography and Disable Management तिकृत विकानसञ्ज्ञ/Tripure University

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Mrs. Jimmi Debbarma Assistant Professor Department of Geography & Disaster Management दूरभाष / Phone: 9612907473

ई-मेल / E-Mail: jimmigeo@tripurauniv.in

#### **CERTIFICATE**

This is to certify that the dissertation paper entitled "Forest Fragmentation with the Change in Land Use Pattern of Rubber Plantation in Gomati District, Tripura" is a record of bonafine work that has been carried out by Mr. Bereng Jamatia, Roll No-1806100004 under my supervision for special paper GEDM 1002C(D) in partial fulfilment of M.A/M.Sc. 4th Semester Examination, 2019.

The dissertation work carried out by him for the award of M.A/M.Sc. degree has not been submitted to any other university.

Date: 21.09.2026
Place: Tripura University

Signature of the Supervisor (धिक्या देवस्याः

fJimmi Debbaima. क्षानिक प्रत्यापार /Assistant Professio बुक्त एवं अपदा प्रकार विभाग in. of Congraphy and Pinaster Managemin's विष्या विश्वविद्यालयः "ग्राम्यक १८ ४०/३०)



This is to certify that Miss Rebika Reang, Roll No. 1806100005 has successfully completed her dissertation paper titled "Implications of ageing among Scheduled Tribes and Non-Scheduled Tribes in Mohanpur and Hezamara Block of Tripura" under my supervision for the partial fulfilment of paper GEDM-1002C (E) Group B (Population and Resource) of M.A. /MSc., 4<sup>th</sup> Semester Examinations, 2020 in Geography and Disaster management of Tripura University.

Signature of the Supervisor

Dr. Mousami Debbarma डॉ मीपामी देव्हामी (Or. Mousaml Debbarma) सहायक प्रधापक / Assistant Professor भूगोल एवं आपदा प्रबंधक विष्णा Baptt of Geography and Disaster Managament किक्स के ब्याविद्यालय प्रवासन (अरुकारक)



This is to certify that Mr. Soul Rupini, Roll No. 1806100006 has successfully completed his dissertation paper titled "Occupational Status of Scheduled Tribe and Non- Scheduled Tribe" under my supervision for the partial fulfilment of paper GEDM-1002C (E) Group B (Population and Resource) of M.A. /MSc., 4<sup>th</sup> Semester Examinations, 2020 in Geography and Disaster management of Tripura University.

16/9/2020

Signature of the Supervisor

Dr. Mousami Debbarma

र्डी मीसमी वेकमी (ै. Mousaml Debbarma) सहायक प्रध्यापक /Assistant Profess भूगोल एवं आपचा प्रवेशक विकास प्रकार of Geography and Disaster Managem विकास विकासिक प्रकार विकास विकास विकास



This is to certify that Mr. Dhanuram Tripura, Roll No. 1806100007 has successfully completed his dissertation paper titled "Gender disparities on educational level at Dumburnagar RD Block" under my supervision for the partial fulfilment of paper GEDM-1002C (E) Group B (Population and Resource) of M.A. /MSc., 4<sup>th</sup> Semester Examinations, 2020 in Geography and Disaster management of Tripura University.

Signature of the Supervisor

Dr. Mousami Debbarma

औं मीसमी देखमां (Or. Mousami Debbarma) अहाराक प्रथापक / Assistant Professor भूगोल एवं आपचा प्रबंधक विकास विकास of Geography and Disaster Man Austrania कियार विश्वविद्यालय जिल्लाम्ब देशकारण

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## Dr. Saptarshi Mitra

**Assistant Professor** 

Department of Geography and Disaster Management Tripura University Tripura-799022

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#### CERTIFICATE

This is to certify that *Mr. Sourav Debnath*, Student of M.A./M.Sc. 4<sup>th</sup> Semester, Department of Geography and Disaster Management, Tripura University (Roll No. 1806100008 & Registration No. 018382 of 2018-2019) has completed his Dissertation entitled "*Implementation Scenario and Challenges of Smart City Project in North East India*" under my supervision. To be the best of my knowledge and belief, the work is of original nature and it is suitable for the submission for partial fulfilment of Master degree in Geography & Disaster Management at the Tripura University, Tripura, India.

(Dr. SAPTARSHI MITRA)

Supervisor

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#### CERTIFICATE

This is to certify that *Mr. Abhijit Ray*, Student of M.A./M.Sc. 4<sup>th</sup> Semester, Department of Geography and Disaster Management, Tripura University (Roll No. 1806100009 & Registration No. 018383 of 2018-2019) has completed his Dissertation entitled "Status of *National Highway in North Eastern Region, India: A Regional Analysis*" under my supervision. To be the best of my knowledge and belief, the work is of original nature and it is suitable for the submission for partial fulfilment of Master degree in Geography & Disaster Management at the Tripura University, Tripura, India.

(Dr. SAPTARSHI MITRA)

**Supervisor** 



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Associate Professor & Head,
Mobile No. 91-9436608205
Department of Geography and Disaster Management

Email: yvkrishna09@gmail.com

Date: 90.08.2020

#### **CERTIFICATE**

I hereby certify that the dissertation entitled "A study on morphometric analysis of Pitra gang watershed of Gomati river, Tripura" submitted to the Tripura University for the partial fulfillment for the award of M.A./M.Sc degree for the academic year 2019-20 by Mr. Joshua Kaipeng (Roll No. 180610006) is the original and independent work carried out under my supervision and that the dissertation has not formed the basis fully or partially for the award of any degree, diploma or other any similar titles earlier at the time of submission.

Place: Tripura University Date: 20.08.2020 (Y. V. Krishnaiah) Supervisor

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#### **CERTIFICATE**

This is to certify that the dissertation paper entitled "Water, Sanitation and Hygiene in Rural Home-Based Community and their Health in Jampuijala" is a record of bonafine work that has been carried out by Mr. Klinton Debbarma, Roll No-1806100011 under my supervision for special paper GEDM 1002C(D) in partial fulfilment of M.A/M.Sc. 4<sup>th</sup> Semester Examination, 2019.

The dissertation work carried out by him for the award of M.A/M.Sc. degree has not been submitted to any other university.

Date: 20.09.2020
Place: Tripusa University

Signature

(Mary Carell: Ulmmi Debbaima. सहायक प्रधापक /Assistant Profession कृतेल एवं आपदा प्रकान निपाम ৰ্বিকাৰ্যন কৰি Geography and Pinnelse Managemist প্ৰস্তুত্ব বিজ্ঞানীয়ালেক গোলাক (privacing Dr. Eshita Boral

Assistant Professor

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#### **CERTIFICATE**

This is to certify that Mr. Utpal Barman (Roll No. 1806100012), a student of 4<sup>th</sup> Semester, Department of Geography and Disaster Management, Tripura University has completed his dissertation entitled "*Nature of Travel: A Case Study of Residents of Agatala Municipal Corporation*" under my supervision as per fulfillment of Paper GEDM 1002C(C), M.A./ M.Sc. (4<sup>th</sup> Semester) Examination, 2020 and is true to the best of my knowledge.

Selvita Boral (डॉ इशिता बोरार्ल)

(Dr. Eshita Boral) सहायक प्रध्यापक /Assistant Professor भूगोल एवं आपदा प्रयंधन विभाग Deptt. of Geography and Disaster Management श्रित विशवविद्यालय/Tripura University

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#### CERTIFICATE

This is to certify that *Mr. Pintu Mandal*, Student of M.A./M.Sc. 4<sup>th</sup> Semester, Department of Geography and Disaster Management, Tripura University (Roll No. 1806100013 & Registration No. 018386 of 2018-2019) has completed his Dissertation entitled "*Railway Transport System in Northeast India: A Regional Analysis*" under my supervision. To be the best of my knowledge and belief, the work is of original nature and it is suitable for the submission for partial fulfilment of Master degree in Geography & Disaster Management at the Tripura University, Tripura, India.

(Dr. SAPTARSHI MITRA)

Supervisor

Dr. Eshita Boral
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#### **CERTIFICATE**

This is to certify that Mr. Uttam Sarkar (Roll No. 1806100015), a student of 4<sup>th</sup> Semester, Department of Geography and Disaster Management, Tripura University has completed his dissertation entitled "*Rider Behaviour at Traffic Signalled Intersection Points: A Case Study of Agartala Municipal Corporation Area*" under my supervision as per fulfillment of Paper GEDM 1002C(C), M.A./ M.Sc. (4<sup>th</sup> Semester) Examination, 2020 and is true to the best of my knowledge.

्रिधीय Bosal

(डॉ इंडिन्स वाराल) (Dr. Eshita Bora!) सहायक प्रध्यापक /Assistant Professor भूगोल एवं आपदा प्रबंधन विभाग Dapit. of Geography and Disaster Management श्रिप विश्वविद्यालय/Tripura University Dr. Eshita Boral
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#### **CERTIFICATE**

This is to certify that Mr. Jony Hrangkhawl (Roll No. 1806100016), a student of 4<sup>th</sup> Semester, Department of Geography and Disaster Management, Tripura University has completed his dissertation entitled "*Evaluation of the status of Flight Services from Agartala Airport*" under my supervision as per fulfillment of Paper GEDM 1002C(C), M.A./ M.Sc. (4<sup>th</sup> Semester) Examination, 2020 and is true to the best of my knowledge.

्रिश्मीय विकास (डॉ इशिता बोरार्ल)

(Dr. Eshita Boral) सहायक प्रध्यापक /Assistant Professor भूगोल एवं आपदा प्रबंधन विभाग Deptt. of Geography and Disaster Management शिद्व विशवविद्यालय/Tripura University

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ई-मेल / E-Mail: jimmigeo@tripurauniv.in

दूरभाष / Phone: 9612907473

#### CERTIFICATE

This is to certify that the dissertation paper entitled "An Assessment of Spring Water Source Management for Domestic Use in Dakshin Dashgharia Village of Hathai Kotor Range, West Tripura" is a record of bonafine work that has been carried out by Mr. Bikon Debbarma, Roll No-1806100018 under my supervision for special paper GEDM 1002C(D) in partial fulfilment of M.A/M.Sc. 4<sup>th</sup> Semester Examination, 2019.

The dissertation work carried out by him for the award of M.A/M.Sc. degree has not been submitted to any other university.

Date: 21.09.2020

Place: Tripura university

Signature of the Supervisor

্তিকানী ব্ৰহ্মণুণ্ (Jimmy) Debbas ma, বাহাৰ অসমত IAssistant Profession বুটাই তুব ৰাখৰ সম্ভান নিম্মণ কিন্তু, ৰা উভয়ুৰ্গাং নাৰ শিক্ষান স্বৰুদ্ধান্ত কিন্তু, ৰা উভয়ুৰ্গাং নাৰ শিক্ষান স্বৰুদ্ধান্ত কিন্তু, ৰা উভয়ুৰ্গাং নাৰ শিক্ষান স্বৰুদ্ধান্ত কিন্তু, ৰা উভয়ুৰ্গাং নাৰ শিক্ষান স্বৰুদ্ধান্ত

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# Dr. Saptarshi Mitra

**Assistant Professor** 

Department of Geography and Disaster Management Tripura University Tripura-799022

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#### CERTIFICATE

This is to certify that *Ms. Bulti Chakma*, Student of M.A./M.Sc. 4<sup>th</sup> Semester, Department of Geography and Disaster Management, Tripura University (Roll No. 1806100019 & Registration No. 015872 of 2015-2016) has completed his Dissertation entitled "*Potential of Cultural Tourism in Tripura*" under my supervision. To be the best of my knowledge and belief, the work is of original nature and it is suitable for the submission for partial fulfilment of Master degree in Geography & Disaster Management at the Tripura University, Tripura, India.

(Dr. SAPTARSHI MITRA)

Sabtustis Mita DR BAPTARBHI MITTA ABBITARBHI MITTA BERTARBHI MITTA TREAD Ulbarre Banganar

Supervisor

MANINAMAY SHIP TIPETANIA

Dr. Nibedita Das (Pan)



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Associate Professor

20.09.2020

This is to certify that Ms. Chanchala Reang, 4th Semester student of the Department of Geography and Disaster Management, Tripura University has completed her dissertation work entitled "Socio-Economic Impact Of Flood; A case study of Kailashahar flood (2018)" under my supervision for partial fulfillment of the PG Course GEDM-1002C (A) Fluvial Geomorphology Special Paper Practical (Dissertation Work). Her work is original and not submitted in any other university for academic purpose.

N 20109/2020 Dr. Nibedita Das (Pan)

(डी. निबंदिनी दास पान)
[Dr. Nibedita Das (Pan)]
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Mrs. Jimmi Debbarma Assistant Professor Department of Geography & Disaster Management

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#### **CERTIFICATE**

This is to certify that the dissertation paper entitled "Assessment of the Landslide Susceptibility Areas in Atharamura Range Along the Highway NH-44" is a record of bonafine work that has been carried out by Mr. Mukesh Debbarma, Roll No-1806100021 under my supervision for special paper GEDM 1002C(D) in partial fulfilment of M.A/M.Sc. 4th Semester Examination, 2019.

The dissertation work carried out by him for the award of M.A/M.Sc. degree has not been submitted to any other university.

Date: 21/09/2026
Place: Tripura University

(शक्तमा देवपता) filmmi Dabbarma सङ्घादक प्रत्यापन / Assistant Professive कृतिस एवं अपद प्रमध्य निभाग Good. & Goograges and Disaster Management केपूरा विश्वविशालयः "गानक मा प्राप्त Dr. Nibedita Das (Pan)

Associate Professor



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e-mail - niboditadaspan/i/amail com , ndaspangco@tripurauniv in

20.09.2020

This is to certify that Ms. Suchismita Dhar Chowdhury, 4<sup>th</sup> Semester student of the Department of Geography and Disaster Management, Tripura University has completed her dissertation work entitled "Hydrological, Morphological and Land Cover Characteristics of Bijai Nadi Basin of Tripura" under my supervision for partial fulfillment of the PG Course GEDM-1002C (A) Fluvial Geomorphology Special Paper Practical (Dissertation Work). Her work is original and not submitted in any other university for academic purpose.

NAAS. 20/09/2020

Dr. Nibedita Das (Pan)

(अ) निवारंति दास पान) [Dr. Nibedita Das (Pan)] ला प्रशापक/Associate Professor नूगीन एवं आपटा प्रवंधन विमाग Depth of Goography and Disaster Management विकृत विगविष्यासन/Tripura University



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Associate Professor & Head,
Mobile No. 91-9436608205
Department of Geography and Disaster Management

Email: yvkrishna09@gmail.com

Date: 20.08.2020

#### **CERTIFICATE**

I hereby certify that the dissertation entitled "Cause and effect of floods by River Mahananda in Siliguri district, West Bengal" submitted to the Tripura University for the partial fulfillment for the award of M.A./M.Sc degree for the academic year 2019-20 by Mr. Jiban Ray (Roll No. 1806100024) is the original and independent work carried out under my supervision and that the dissertation has not formed the basis fully or partially for the award of any degree, diploma or other any similar titles earlier at the time of submission.

Place: Tripura University Date: 20.08: 2020

(Y. V. Krishnaiah) Supervisor

(Dr. Y. V. Krishnaiah)
Associate Professor & HEAD
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Associate Professor



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20.09.2020

This is to certify that miss. Krishna Sarkar, 4th Semester student of the Department of Geography and Disaster Management, Tripura University has completed her dissertation work entitled "MORPHOMETRIC ANALYSIS OF CHAILENGTA CHHARA BASIN OF UNAKOTI DISTRICT, TRIPURA" under my supervision for partial fulfillment of the PG Course GEDM-1002C (A) Fluvial Geomorphology Special Paper Practical (Dissertation Work). Her work is original and not submitted in any other university for academic purpose.

NAAA. 20/09/2020 Dr. Nibedita Das (Pan)

(डॉ. निवेदिकी दास पान) [Dr. Nibedita Das (Pan)] सह प्रदापक/Associate Professor भूगोल एवं आपदा प्रबंधन विभाग Dept. of Geography and Disaster Management विपूर निगविद्यालय/Tripura University Dr. Eshita Boral
Assistant Professor

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#### **CERTIFICATE**

This is to certify that Mr. Baharul Miah (Roll No. 1806100026), a student of 4<sup>th</sup> Semester, Department of Geography and Disaster Management, Tripura University has completed his dissertation entitled "*The Role of Vertical Alignment of Roads on Traffic Characteristics: A Study of NH 8 in Tripura*" under my supervision as per fulfillment of Paper GEDM 1002C(C), M.A./ M.Sc. (4<sup>th</sup> Semester) Examination, 2020 and is true to the best of my knowledge.

्रिधीय Bosal

(Dr. Eshita Boral) सहायक प्रध्यापक /Assistant Professor भूगोल एवं आपदा प्रयंधन विभाग Deptt. of Geography and Disaster Management श्रित विशवविद्यालय/Tripura University



This is to certify that the following students with respective roll numbers has successfully completed their field reports titled "Role of Women in development" under my supervision for the partial fulfilment of paper GEDM-903C Group A (Field Report) of M.A./MSc., 3<sup>rd</sup> Semester Examinations, 2019 in Geography and Disaster management of Tripura University.

Sl. No.	Roll no.	Name
1	1806100001	Karan Chakma
2	1806100002	Priya Debbarma
3	1806100003	Sriparna Datta
4	1806100004	Bereng Jamatia
5	1806100005	Rebika Reang
6	1806100006	Soul Rupini
7	1806100007	Dhanuram Tripura
8	1806100008	Sourav Debnath
9	1806100009	Abhijit Roy
10	1806100010	Joshua Kaipeng
11	1806100011	Klinton Debbarma
12	1806100012	Utpal Barman
13	1806100013	Pintu Mandal
14	1806100015	Uttam Sarkar
15	1806100016	Johny Hrangkhawl
16	1806100018	Bikon Debbarma
17	1806100019	Bulti Chakma
18	1806100020	Chanchala Reang
19 ,	1806100021	Mukesh Debbarma
20	1806100022	Suchismita Dhar Choudhury
21	1806100024	Jiban Roy
22	1806100025	Krishna Sarkar
23	1806100026	Baharul Miah

M321/5/2019

Signature of the Supervisor

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has successfully completed the field report on 'Role of women in devloepment' under my supervision for the partial fulfillment of pare GEDM -903C Group A (Filed report) of M.A./M.Sc.. 3<sup>rd</sup> Semester Examination. 2019 in Geography and Disaster Management of Tripura University.

(Dr. Mousami Debbarma)

ठॉ मीसनी वेक्सो (Dr. Mousemi Osbbarma)

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डॉ मीसमी देखमां (ठा. Mousani Debbarna) संज्ञायक प्रध्यापक /Assistant Professor भूगोल एवं आपदा प्रध्यक विभाग

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This is to certify that Mr. /Ms. 500RAV DEBNATH..., Roll No. 1806100008 has successfully completed the field report on 'Role of women in development' under my supervision for the partial fulfillment of pare GEDM -903C Group A (Filed report) of M.A./M.Sc., 3<sup>rd</sup> Semester Examination, 2019 in Geography and Disaster Management of Tripura University.

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Olpal Broman , Roll No. 1806100012 This is to certify that Mr. /Ms. .... has successfully completed the field report on 'Role of women in development' under my supervision for the partial fulfillment of pare GEDM -903C Group A (Filed report) of M.A./M.Sc., 3rd Semester Examination, 2019 in Geography and Disaster Management of Tripura University.

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This is to certify that Mr. /Ms. Jony Hnangkhaud....., Roll No. 1806.1.00016... has successfully completed the field report on 'Role of women in development' under my supervision for the partial fulfillment of pare GEDM -903C Group A (Filed report) of M.A./M.Sc., 3<sup>rd</sup> Semester Examination, 2019 in Geography and Disaster Management of Tripura University.

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This is to certify that Mr. /Ms. Klentan Addama, Roll No. 1806/000// has successfully completed the field report on 'Role of women in devloepment' under my supervision for the partial fulfillment of pare GEDM -903C Group A (Filed report) of M.A./M.Sc., 3<sup>rd</sup> Semester Examination, 2019 in Geography and Disaster Management of Tripura University.

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This is to certify that Mr. /Ms. Karishna Sankar..., Roll No. 1806100025... has successfully completed the field report on 'Role of women in development' under my supervision for the partial fulfillment of pare GEDM -903C Group A (Filed report) of M.A./M.Sc., 3<sup>rd</sup> Semester Examination, 2019 in Geography and Disaster Management of Tripura University.

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This is to certify that Mr. /Ms. \*\*RAHDRHL. \*\*AJAH\*\*\*......, Roll No. ..1806.10.002.6. has successfully completed the field report on 'Role of women in development' under my supervision for the partial fulfillment of pare GEDM -903C Group A (Filed report) of M.A./M.Sc., 3<sup>rd</sup> Semester Examination, 2019 in Geography and Disaster Management of Tripura University.

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