

<b>1.3.4 Q<sub>n</sub>M</b>	<p><b><i>Percentage of students undertaking field projects / research projects / internships (Data to be given for the latest completed academic year)</i></b></p> <p>1.3.4.1: Number of students undertaking field projects or research projects or internships</p> <p>Data Requirements: (As per Data Template)</p> <ul style="list-style-type: none"> <li>Names of the Programmes</li> <li>No. of students undertaking field projects /research projects/ internships</li> </ul> <p>Formula:</p> $\frac{\text{Number of students undertaking field projects or research projects or internships}}{\text{Total number of students}} \times 100$ <p style="text-align: right;">393/</p> <p><b>File Description (Upload)</b></p> <ul style="list-style-type: none"> <li>Any additional information</li> <li>List of Programmes and number of students undertaking field projects research projects/ internships (Data Template)</li> </ul>	<b>5</b>
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**Data template:**

Program Code	Programme name	Name of the Students	Link to the relevant document
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**DVV requirement**

**Documents Needed**

- List of students undertaking the field projects/ research projects/ internship program-wise during the last completed academic year along with details of title, place of work the etc., to be provided. [Annexure 1.3.4.A.](#)
- Completion certificate from the organization where the internship / research project was completed along with the duration of the same is to provided.be [Annexure 1.3.4.B.](#) provides some sample letters/
- Report of the field visit / sample photographs of the field visit/ permission letter from the competent authority only will be considered. <https://www.terisas.ac.in/field-trips.php>

**Specific instruction to HEI**

Only latest completed Academic Year data to be considered.

One student involved in multiple fields works and/or research projects and/or internship should be counted as one.

Internship / research project completion certificate given to the students by the host organisation will be asked during the DVV process

with specific list of students.

In case of field visit, mentioning objectives and outcomes of field visit along with the field visit report is necessary for consideration.

**Avoid the following while uploading data**

Mere list of students cannot be considered without relevant supporting documents.

27<sup>th</sup> January 2021

Ms. Shreya Pandit

Dear Shreya,

With reference to your application, you are selected to join '**SB Energy Private Limited**' (the 'Company') as an Intern.

Your date of association would be from **01<sup>st</sup> February 2021** to **30<sup>th</sup> June 2021**.

The internship tenure shall be based on the following terms and conditions:

1. This is an unpaid internship and no compensation will be paid for any duties provided for SB Energy Private Limited. You will be entitled for national holidays as per Company policy but will not be eligible for any other leave benefits.
2. You will have to complete the entire duration of internship at one stretch with the Company, under all circumstances. You are expected to be present at office as per guidelines of your 'project mentor', and as per work requirement on an ongoing basis.
3. During your internship, you will be subject to the rules and regulations of the Company as laid down in relation to conduct, discipline, safety and other matters. You will be bound by the SB Energy Private Limited Non-Disclosure Agreement signed by yourself on your date of joining.
4. You will not, at any time, without the consent of the 'project mentor' disclose or divulge or make public any information regarding the company's affairs or administration or research carried out, whether the same may be confided to you or become known to you in the course of your internship/training or otherwise.
5. If you create any new or advanced method of improving processes/ formulae/ systems in relation to the operations of the Company, such developments will be fully communicated to the Company and will remain as the sole right/property of the Company. You will not publish/disclose any material without obtaining specific permission from the Company.
6. Your internship could be terminated with immediate effect without assigning any reasons whatsoever. On termination of this contract, you will immediately give to the Company all correspondences, specifications, formulae books, documents, market data, cost data, drawings, effects or records etc., belonging to the Company or relating to its business and shall not retain or make any copies of these items.
7. You shall provide your residential address to the Company. Any communication sent on that address through U.P.C./Registered A.D. shall be sufficiently served on you for all purposes.
8. Company does not guarantee any type of employment post completion of your internship with us and the Company reserves all the rights to amend any of the above rules at its sole discretion.

With best wishes



Yours Sincerely,

Nitin Sharma | Senior Manager- HR | SB Energy Private Limited



**Mumbai**  
2nd Floor, Deluxe House, B-50  
Veera Desai Road, Andheri (W)  
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3rd Floor, Meghalaya House,  
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HR/2020-21/124  
January 20, 2021

To,  
Neha Pujar  
B/8, Indira Gandhi Institute of Development Research,  
Santosh Nagar,  
Film City Road,  
Goregaon East,  
Mumbai – 400065

Dear Neha,

**Subject: Internship with AICL Communications Ltd.**

Congratulations! We are happy to inform you that, you have been offered an internship with AICL Communications as Trainee, Content from January 20, 2021 till July 20, 2021 at our Mumbai office.

AICL is a dynamic, progressive and performance oriented organisation, and we hope that you will utilize your skills and talents to fullest to achieve your own growth objectives as well as help the company move forward towards realising its vision.

**1. Compensation**

As Trainee, Content your monthly stipend will be Rs. 15,000/-

**2. Leave**

You will not be eligible for any leave during Internship. Any leave you need to take will be without pay and will need prior approval.

**3. Location**

This position is based out of **Mumbai**.

**4. Office Timings**

Our normal office hours are from 10:00 AM to 7:30 PM. We are a five-day working organisation except for the 4.5 months in a year which could range anywhere between April and September. The rest of the months, one Saturday a month is assigned as a **Learning Saturday**.

**5. Duties**

You shall, during the hours of attendance, during the day or week, as may be required, from time to time, diligently and punctually perform all duties and tasks which the Company or any Authorised Employee may request or require you to perform. You shall, at all times, comply with all the rules and regulations and instructions at any time laid down or given by the Company for the guidance of its employees and relevant to the employment and appointment held by you.



Should there be any change in your duties, responsibilities, your designation and/or your place of work, you will be notified accordingly. You will not at any time during the continuance of your employment engage directly or indirectly in any other business or occupation or engage in any activities to the detriment of the Company's interests.

The Company reserves the right at any time and from time to time to add, amend, revise or vary the terms and conditions of your employment by giving you written notice thereof.

#### 6. Notice Period

During the period of internship either party may terminate this employment relationship by giving the other party **20 days** written notice, or by payment of **20 days** compensation in lieu of such notice.

#### 7. Indemnification

You shall, at all times, indemnify and keep indemnified the Company against all sums whether by way of claims, demands, damages, costs, charges or expenses paid or incurred by the Company in or in connection with any action, claim, proceeding or demand instituted or made against the Company caused or occasioned by your breach, failure, default or neglect, in the opinion of the Company, to observe and comply fully with the terms and conditions your employment with the Company herein contained.

#### 8. Conduct

You shall at all times be suitably attired and conduct yourself soberly, honestly and professionally. Special care needs to be exercised when you are carrying out your duties at client offices or locations. If you commit any dishonest, fraudulent or unauthorised acts in relation to any property of the Company whereby the Company sustains any loss, damage or prejudice whatsoever or if any law suit shall be brought against the Company as a consequence of any unauthorised action or publication or statement of yours or the representation in any media, print, electronic or in any other form or for such action caused by you, you shall forthwith upon demand pay to the Company such sum as is sufficient to make good such loss or damage or prejudice sustained as aforesaid.

#### 9. Confidentiality

Both during the continuance of your employment and at all times thereafter you shall:

- (1) Not, except in the proper course of your duties hereunder, use or disclose to any person firm or company any confidential information concerning the financial affairs, accounts, business plans, operational procedures, trade secrets, meetings, transactions or affairs of the Company or of the clients or other business associates thereof unless such use or divulging by you are required by law and in that event the extent of such use or disclosure shall be limited to that required by law (you shall notify the Company before making any disclosure required by law, and assist the Company in seeking to restrict or prevent any such disclosure)
- (2) Use your reasonable endeavours to prevent the unauthorised use, publication or disclosure of any of the matters referred to in sub-clause (a) above.
- (3) Not, during the continuance of your employment hereunder or at any time hereafter make or use or knowingly permit to be made or used (otherwise than in the proper course of your duties hereunder or for the benefit of the Company during the period of your employment) any notes drawings or memoranda or any copyright or other industrial property rights or any artwork, recordings, tapes, demos, videos, photos, plans, files, correspondence, accounts, reports or research or other matters relating to or connected with the business dealings or affairs of the Company and all such notes, drawings, memoranda rights and other items and matters referred to in this clause made or used or permitted to be made or used for the benefit of the Company shall remain at all times the property of the Company and shall be delivered up to the Company forthwith on demand.
- (4) Not, at any point after terminating your contract with the Company as an employee, use proprietary information, systems and processes developed by the Company to enhance a business of your own or any of the competitors of the Company.





# AICL

## / AICL Communications Ltd

**Mumbai**  
2nd Floor, Deluxe House, B-50  
Veera Desai Road, Andheri (W)  
Mumbai 400053, India  
+91 22 62899999

**Kolkata**  
3rd Floor, Meghalaya House,  
10, Russel Street,  
Kolkata - 700 071  
+ 91 33 6824 9999

hello@aicl.in

aicl.in

### 10. Non-Competition

You shall not (without prior written consent of the Company) during the continuance of your internship hereunder, accept any office or employment in any other business or occupation, and shall not hold an investment in any company which is engaged in a business similar to or competitive with the business of the Company, although you may hold investments in public companies whose shares are listed on recognised Stock Exchanges. You shall devote your full energies, abilities and productive business time to the performance of your assigned duties.

You shall not at any time during your internship and for a period of two years after its termination seek any employment with a client or competing company or entice away or endeavour to entice away from the Company any director, employee, agent or consultant thereof.

You shall not trade in the equity shares of the clients of the Company, armed with any non-public information in a manner that attracts action under the rules of Insider trading prevalent in the country.

Welcome to AICL Communications Limited.

Sincerely,



Nitika Kariwala  
Director



I accept the above contract of internship and agree to the terms and conditions set out in this contract of internship.

Name: Neha Pujar

Date of Joining: January 20, 2021

Signature:



Date: 20/01/2021

09 February 2021

**LETTER OF INTENT**

To  
 Ms. Shruti Bahukhandi  
 40, Ekta Colony,  
 Ajabpur Kalan,  
 Dehradun 248001

**Sub: Letter of Intent in relation to your appointment as Intern.**

Dear Ms. Shruti,

We are pleased to inform you that Center for Study of Science Technology and Policy, hereinafter referred to as "Company" intends to appoint you as our employee in the post of Intern at the fixed stipend of Rs.10,000/- per month w.e.f. 01.02.2021 to 30.06.2021 on the following terms and conditions enumerated in subsequent paragraphs;

1. This letter of intent once signed and reverved back to us with your acceptance shall be treated as an Agreement between the company and the employee and shall be binding upon the employee.
2. Your present place of posting shall be at Bengaluru. However, your services are transferable and you may be assigned/ transferred in India or outside India to serve the Company in any of its existing or future offices or any of its group companies or associates. It is a condition of your employment that you comply with any such requirements of the Company. The transfer arrangement will not deem to constitute a change in your conditions of service.
3. All your terms and conditions of appointment shall be governed by company's policy, rules and regulations and that mentioned in the Letter of appointment.

You are requested to please confirm the acceptance of this Letter of Intent by signing and returning a copy of this letter.

**For,**  
**Center for Study of Science Technology an Policy**

**ACCEPTED BY**


**Dr Sreekanth Vakacherla**  
**Senior Research Scientist**



February 3, 2021

**Ms. Surbhi Sharma**

House No. 880, Sector - 28  
Faridabad  
Haryana – 121006

**Subject: Industrial Training**

Dear Ms. Sharma,

Further to the reference of your application dated January 19, 2021 we wish to inform you that we are pleased to confirm you as Industrial Trainee at our Timarpur Okhla Waste Management Company Limited, Delhi in EHS Department. You will be on training wef February 8, 2021 for a period of four(4) months.

You are eligible for a stipend of Rs. 10,000/- per month during the above training period.

Please sign and return the duplicate copy of this letter as a token of your acceptance.

For Timarpur Okhla Waste Management Company Ltd.



AK Sinha

AVP – Corporate Human Resource



Jan 21, 2021

**Puneet Tokas**

389, Sector 47, Gurgaon, Haryana

Dear Puneet,

Research Triangle Institute Global India Private Limited (“RTI Global India”), which is a part of the RTI International group of companies, is pleased to offer you the RTI Internship. During the Internship, your work will be based in Delhi India, or you may be required to work remotely as per the requirements, and you will work directly with **Dr. Gaurav Bhatiani, Director - Energy** at RTI International.

The estimated duration of the internship will be from **Feb 01, 2021 to May 31, 2021**, during which you will be expected to commit to 8 hours per day. Flexibility exists to change the specific work hours depending on the project needs. The project will be reviewed midterm on March 15, 2021 and final on May 28, 2021 depending on the availability of the reporting manager.

During this internship, you as Energy Intern will work with the teams and the Energy department of RTI International. To work on one or more projects to be assigned by Director – Energy, depending on ongoing business activities. Specific project will be allocated on joining internship, based on available projects and mutual interest.

**Confidentiality**

It is understood that, during the course of internship and/or in performing the Services, you may be exposed to or receive proprietary information (“Confidential Information”). Both during the term of the internship and at all times thereafter, you shall not reveal, publish or otherwise disclose Confidential Information to any third party without the prior written consent of RTI India.

In performance of internship, RTI India guarantees confidentiality to its commercial clients. Therefore, in accomplishment of, and/or in connection with, work, you agree not to reveal the identity of the commercial client in any manner whatsoever without specific approval of RTI India. Furthermore, you shall not publish or make known to others the subject matter of any information developed in performance of Services under the internship, without first having obtained the approval of RTI India.

**Media Management**

You agree not to use RTI India’s name or make any reference to RTI India or any of its employees for advertising, publicity or any purpose whatsoever, whether or not related to the Internship, unless such use of name and/or related materials have been previously approved in writing by RTI India. This obligation shall survive the termination of the Internship.

The stipend for this internship will be @ INR 15,000 per month.

*Corporate Identity No. U73100DL2014FTC272748*

*Research Triangle Institute Global India Private Limited is a subsidiary of Research Triangle Institute.*

*RTI International is a registered trademark and a trade name of Research Triangle Institute.*

This Stipend includes all conveyance charges and lunch expenses. Any expenses for Project related travel shall be pre-approved in writing by the Project Manager and shall be entitled to reimbursement, upon submission and approval of written statements and original receipts in accordance with the regular procedures of RTI India. Personal expenses of any nature incurred while in business travel status are not reimbursable by RTI India. There shall be no other charges paid for by RTI India during the term of this Internship.

We are confident that you will find your experiences with RTI Global India personally enjoyable and professionally gratifying.

Sincerely,



Imma Tigga  
Head – Human Resources, RTI Global India

**Agreed and Accepted:**

---

Puneet Tokas

Date:

### Certificate

This is to certify that **Abhishek Majumdar** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**Environmental Degradation and Pollution in Delhi NCR: A Study in Cause and Effect with Specific Context to Faridabad**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Mr. Prakhar Pandey,  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

Date: 15-09-2021



Dr. Vidhi M. Chadda,  
In charge,  
Centre for Post Graduate Legal Studies,  
TERI School of Advanced Studies



**Certificate**

This is to certify that **Agniwesh Singh** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic **“EXPLORING THE GRADED RESPONSE ACTION PLAN IN CURBING THE LEVELS OF POLLUTION IN DELHI”** during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



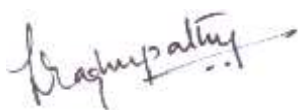
Professor Prakhar Pandey  
Assistant Professor Centre for Post Graduate  
Legal Studies  
TERI School of Advanced Studies  
Date: Sept. 15, 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: Sept. 15, 2021

This is to certify that Akalva Ravichandran has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**PLASTIC WASTE MANAGEMENT AND THE PRINCIPLE OF EXTENDED PRODUCER RESPONSIBILITIES**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Lakshmi Ragupathy  
(Former director of MoEF&CC)  
Visiting Faculty  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 15<sup>th</sup> September 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 15<sup>th</sup> September 2021

### ACKNOWLEDGEMENT

**Format of the Certificate for Supervisor(s) and the Head**

This is to certify that **Akshavaa.M** has carried out Dissertation work, for 2nd semester of LL.M.programme for the degree of LL.M. on the topic “**LEGAL MANDATE ON CLOSURE OF MINES – A CRITICAL REVIEW**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



**Ms.Manisha Badoni**  
**Supervisor**

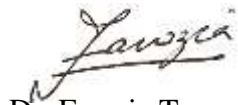


**Dr. Vidhi M Chadda**  
**Assistant Professor & In-charge**  
**Centre for Post Graduate Legal Studies**  
**TERI School of Advanced Studies**

Certificate

This is to certify that Animesh Khandelwal has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic **“REGULATION OF GROUNDWATER- TOWARDS CONSERVATION & EQUITABLE DISTRIBUTION”** during April 2021 – August 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Fawzia Tarannum

Assistant Professor

Coca-Cola Department of Regional Water Studies

15-09-2021



Dr. Vidhi M Chaddha

Incharge

Centre for Postgraduate Legal Studies

TERI School of Advanced Studies

15-09-2021

**Certificate**

This is to certify that Ansuaya Yadav has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic A Study of Public Bus System in Delhi: Issues, Challenges and Options during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Prof. Shri Prakash  
Mentor and Director, Public Policy  
and Sustainable Development  
Department of Policy Studies  
TERI School of Advanced Studies  
Date: 14/09/2021




Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 14/09/2021

### **Certificate**

This is to certify that **Anu Jindal** has carried out Dissertation work, for the 2nd semester of the LL.M. programme for the degree of LL.M. on the topic **“THE WORRYING CASE OF AIR POLLUTION IN DELHI- AN ANALYSIS OF THE RESPONSES BY THE THREE BRANCHES OF THE GOVERNMENT”** during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Els Rayners  
Lawyer at MV Kini  
Head Environment Department  
Date: Sept. 17, 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

**CERTIFICATE**

This is to certify that **Anusha Arif** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**URBAN RESILIENCE AND DISASTER RISK MANAGEMENT: A CASE STUDY OF DELHI’S COVID RESPONSE**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vidhi M Chadda

Internal Supervisor

Assistant Professor

Centre for Post Graduate Legal Studies

TERI School of Advanced Studies



Dr. Vidhi M Chadda

In-charge

Centre for Post Graduate Legal Studies

TERI School of Advanced Studies

Certificate

This is to certify that **APPU JOSE** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**REAL ESTATE INVESTMENTS AND ITS ASSOCIATED CHALLENGES IN INDIA**” during January 2020 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr Vidhi M Chadda  
Supervisor  
Center for Post Graduate Legal Studies  
TERI School of Advanced Studies.



Dr Vidhi M Chadda  
In charge  
Center for Post Graduate Legal Studies  
TERI School of Advanced Studies.



### Certificate for Supervisor and the Head

This is to certify that **Arjun Gupta** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**ENERGY STORAGE SYSTEM (ESS): NECESSITY FOR THE FUTURE**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Gopal K Sarangi  
Internal Supervisor  
Department of Policy Studies  
TERI School of Advanced Studies  
Date: 15 September, 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

### Certificate

This is to certify that BHAWANA BANSAL has carried out Dissertation work, for 2nd semester of LL.M. program for the degree of LL.M. on the topic “**GENDER DIVERSITY ON CORPORATE BOARDS: AN INDIAN EXPERIENCE**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vidhi M Chadda  
Supervisor  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

Certificate

This is to certify that **Deepali Verma** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**MAGNIFYING THE REAL ESTATE REGULATION AND DEVELOPMENT ACT, 2016- EVOLUTION, ANALYSIS, IMPLEMENTATION AND LOOPHOLES**” during January 2020 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vidhi M. Chadda  
Internal Supervisor,  
TERI School of Advanced Studies  
Date: September 2021



Dr. Vidhi M. Chadda  
InCharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

**Certificate**

This is to certify that **DEIYA GOSWAMI** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic **“UNDERSTANDING WATER RESOURCE MANAGEMENT AND GOVERNANCE IN INDIA WITH SPECIAL REFERENCE TO SUSTAINABILITY IN TERMS OF GREEN-BLUE INFRASTRUCTURE”** during September 2020 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Mallika Ramachndran  
Guest Faculty  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 16th September 2021



Dr. Vidhi M Chadda  
In-charge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 16th September 2021

## CERTIFICATE

This is to certify that **Ms. G. S. Maghna Praseeda** has carried out the Dissertation work, for the 2nd Semester of LL.M. Programme for the degree of LL.M. on the topic “**NEED FOR AN ENVIRONMENT FRIENDLY HOUSING POLICY FOSTERING MENTAL WELL-BEING [‘PARYAVARAN MITHRA MAN-AROGYA AAVAAS YOJANA’]**” during April 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Mr. Prakhar Pandey  
Visiting Faculty,  
TERI School of Advanced Studies  
September 2021

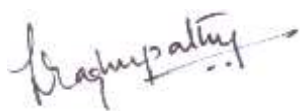


Dr. Vidhi M. Chadda  
Incharge  
Centre for Post Graduate Studies  
TERI School of Advanced Studies

### Certificate

This is to certify that **Gautham T Koshv Panachamoottil** has carried out Dissertation work for the 2nd semester of the LL.M. Programme for the degree of LL.M. on the topic "**Enforcement Mechanisms for the Legal Control of E-waste in India**" during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Lakshmi Raghupathy  
Visiting Faculty  
TERI School of Advanced  
Studies  
15.09.2021



Dr. Vidhi M Chadda  
In charge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
15.09.2021

## Certificate

This is to certify that **Geetika Vyas** has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M. programme for the degree of LL.M. on the topic “**ASSESSMENT OF RIVER REJUVENATION APPROACH IN INDIA-A CASE STUDY OF GANGA ACTION PLAN**” during April 2021- August 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vidhi M Chadda  
Incharge  
Centre for post Graduate Legal Studies  
TERI School of Advanced Studies



Dr. Fawzia Tarannum  
Assistant Professor  
Department of Regional Water Studies  
TERI School of Advanced Studies

**CERTIFICATE**

This is to certify that Goutham Krishna U B has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “ENVIRONMENTAL RISK MANAGEMENT IN PROJECT FINANCE BY BANKING INSTITUTIONS IN INDIA: ANALYSING THE POSSIBILITIES OF BETTER REGULATORY INITIATIVES AND PRACTISES” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vidhi M Chadda  
In Charge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 19 September 2021



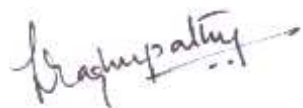
Dr. Vidhi M Chadda  
In Charge  
Centre for post Graduate Legal  
Studies  
TERI School of Advanced Studies  
Date: 19 September 2021



**Certificate**

This is to certify that **Himanshi Goel** has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M. programme for the degree of LL.M. on the topic “**SUSTAINABLE SOLID WASTE MANAGEMENT IN INDIA WITH EMPHASIS ON INDIAN HIMALAYAN REGION**” during January 2021- September 2021

The report embodies the original work of the candidate, to the best of our knowledge



Dr. Lakshmi Raghupathy  
Visiting Faculty  
TERI School of Advanced Studies  
14 September, 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for post Graduate Legal Studies  
TERI School of Advanced Studies

**Certificate**

This is to certify that John J Vachaparambil has carried out Dissertation work, for 2nd Semester of LL.M. programme, for the degree of LL.M., on the topic “LEGALITY AND SUSTAINABILITY OF ARTIFICIAL ISLANDS IN INDIA” during January 2020 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vishnu Konoorayar,  
Internal Supervisor,  
TERI School of Advanced Studies (SAS).



Dr. Vidhi M Chadda,  
In-Charge,  
Centre for Post Graduate Legal Studies,  
TERI School of Advanced Studies.

### CERTIFICATE

This is to certify that **Kajal Mandge** has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M. programme for the degree of LL.M. on the topic **SHIFTING PERCEPTION TOWARDS URBAN RIVER REJUVENATION LEGAL APPROACH TOWARDS GOVERNANCE** during January 2021- September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Mallika Ramachandran,  
Visiting Faculty  
TERI School of Advanced Studies  
14 September, 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for post Graduate Legal Studies  
TERI School of Advanced Studies

### Certificate

This is to certify that **Kartikey** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**FOREST RIGHTS ACT- UNDERLYING HURDLES IN FULFILLING ITS OBJECTIVE**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Ms. Manisha Badoni  
Faculty  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 15/09/2021



Dr. Vidhi M Chadda  
In-charge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 15/09/2021

## Certificate

This is to certify that **Kumar Sourav** has carried out dissertation work, for 2<sup>nd</sup> semester of LL.M. programme for the LL.M. on the topic “**EFFECTIVENESS OF ENERGY LAWS IN FACILITATING THE SWITCH TO RENEWABLE ENERGY: A COMPARATIVE STUDY**” during January 2021-September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Mr. Ayushman Kheterpal

Advocate

External Supervisor

September <sup>16th</sup> 15, 2021



Dr. Vidhi M Chadda

InCharge

Centre for Post Graduate Legal Studies

TERI School of Advanced Studies

September 15, 2021

Certificate

This is to certify that Lakshita Sharma has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**Land Acquisition Governance**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Ms. Manisha Badoni  
Supervisor



Dr. Vidhi Chaddha  
In-Charge  
Centre for Post Graduate Legal Studies  
TERI School of Advance Studies

### Certificate

This is to certify that Malvika Singh has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “AIR POLLUTION IN DELHI: LEGAL AND POLICY RESPONSES TO CURB THE PROBLEM” during January 2021 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Mr. Prakhar Pandey  
Visiting Faculty  
Centre for Post Graduate Legal Studies  
Studies  
TERI School of Advanced Studies  
Date: September 15, 2021



Dr. Vidhi M Chadda  
In-charge  
Centre for Post Graduate Legal  
Studies  
TERI School of Advanced Studies  
Date: September 15, 2021

Certificate

This is to certify that **Mayank Sharma** has carried out Dissertation work, for 2<sup>nd</sup> Semester of LL.M. program for the degree of LL.M. on the topic “**AN ANALYSIS OF ELECTRIC VEHICLE POLICY, ITS LEGAL FRAMEWORK AND IMPLEMENTATION: AN EMPIRICAL STUDY FOR DELHI-NCR**” during January 2021- September 2021.

The report embodies the original work of the candidates, to the best of our knowledge.



Ayushman Kheterpal

External Supervisor,

Patent Agent,

Advocate

Date: September 2021



Dr. Vidhi M Chadda

In-Charge

Centre for Post Graduate Legal Studies

TERI School of Advanced Studies



### CERTIFICATE

This is to certify that Nikita Tyagi has carried out dissertation work, for 2<sup>nd</sup> semester of LL.M. programme on the topic “**SHIFTING GEOPOLITICS OF OIL AND GAS INDUSTRY: RISK AND OPPORTUNITIES FOR INDIA**” during January 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Ms. Els Reynaers Kini

General Secretary, NLAI & Partner, M V Kini Law Firm



Dr. Vidhi M Chadda

InCharge

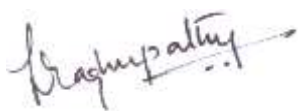
Centre for Post Graduate Legal Studies

TERI School of Advance Studies

### CERTIFICATE

This is to certify that Nitisha Ratnam has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M programme for the degree of LL.M on the topic “INFRASTRUCTURE AND POLICY RELATED TO BIOMEDICAL WASTE” during January 2021 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr Lakshmi Raghupathy  
(Former Director of MoEF&CC)  
Visiting Faculty  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 15<sup>th</sup> September 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal  
Studies  
TERI School of Advanced Studies  
Date: 15<sup>th</sup> September 2021

## Certificate

This is to certify that **Padhmanabha Raja K R** has carried out Dissertation work, for 2nd semester of LL.M. Programme for the degree of LL.M. on the topic “**Impact of Public Distribution System on Food Security: A Critical Appraisal on The Legal Framework in India**” during January 2021– July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vidhi M Chadda  
Asst. Professor & Supervisor  
Centre for Post Graduate Legal  
Studies  
TERI School of Advanced Studies  
15.09.2021



Dr. Vidhi M Chadda  
In charge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
15.09.2021

## Certificate

---

This is to certify that **Pallavi Srivastava** has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M programme for the degree of LL.M (Environment and Natural Resources Law) on the topic “**Blue Economy and Marine Pollution**” during January 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



**(Dr. Vishnu Konoorayar)**

Supervisor  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies



**(Dr. Vidhi M. Chadda)**

In charge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

Date: Sept. 15. 2021

Certificate

This is to certify that **Pranavakshar Kapur** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**DIAGNOSTIC STUDY OF SMART CITY MISSION: CASE STUDY OF CHANDIGARH**” during January 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Prof. Shri Prakash  
Internal Supervisor,  
Department of Policy Studies,  
TERI School of Advanced Studies,  
Date: September 2021

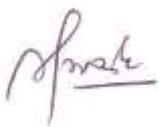


Dr. Vidhi M Chadda  
InCharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

**Certificate**

This is to certify that **Perna Arora** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**URBAN HEALTHCARE INFRASTRUCTURE-CASE STUDY OF DELHI**” during January 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Prof. Shri Prakash  
Internal Supervisor  
September 27, 2021



Dr. Vidhi M. Chadda  
In-Charge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
September 27, 2021

### CERTIFICATE

This is to certify that **Priya Mishra** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**Legal Aspects of Inter- State Water Disputes: Case Study of Punjab’s Waters**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Ms. Manisha Badoni,  
Supervisor  
Centre for Post Graduate Legal  
Studies, TERI School of Advanced Studies, New Delhi.  
Date: 25<sup>th</sup> August 2021



Dr. Vidhi M. Chadda,  
Incharge,  
Centre for Post Graduate Legal Studies,  
TERI School of Advanced Studies, New Delhi.

### Certificate

This is to certify that **Priyanka Verma** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic **“POLLUTION AND CONSERVATION OF RIVERS IN INDIA: - A CASE STUDY OF GANGA RIVER”** During January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr Fawzia Tarannum  
Assistant Professor  
TERI School of Advanced Studies  
15/09/2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

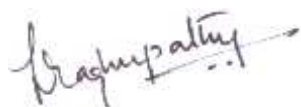


### **CERTIFICATE FOR SUPERVISOR(S) AND THE HEAD**

---

This is to certify that Radhika Dwivedi has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “EFFECTIVE & SUSTAINABLE MANAGEMENT OF BIOMEDICAL WASTE IN INDIA: WITH SPECIAL REFERENCES TO THE WASTE GENERATED DURING CORONA PANDEMIC” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Lakshmi Raghupathy

(Former director of MoEF&CC)

Supervisor

Centre for Post Graduate Legal Studies

TERI School of Advanced Studies



Dr. Vidhi M Chadda

Incharge

Centre for Post Graduate Legal Studies

TERI School of Advanced Studies

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### **ACKNOWLEDGEMENT**

Certificate

This is to certify that **Rishav Sharma** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**Sustaining the Sustainable: An Approach Towards Integration of Sustainable Development Goals and Beyond**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vishnu Konoorayar  
Associate Professor & Head  
Center for Post Graduate Legal  
Studies TERI School of Advanced  
Studies

Date: Sept 17, 2021



Dr. Vidhi M Chadda  
In-charge  
Center for Post Graduate Legal Studies  
TERI School of Advanced Studies

Certificate

This is to certify that Ritvik Mishra has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M program for the degree of LL.M on the topic “Critical Studies on policies of solar energy” during January 2021 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vishnu konoorayar

Supervisor  
Centre for Post Graduate Legal Studies

TERI School of Advanced Studies

Date: 15 September 2021



Dr. Vidhi M Chadda

Incharge

Centre for Post Graduate Legal Studies

TERI School of Advanced Studies

Date: 15 September 2021

**Certificate by Supervisor(s) and the Head of Department**

This is to certify that **ROHAN GIRISH RAJ** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**Regulatory Challenges in the Decentralised/ Off-Grid Solar Energy Sector in India**” during January 2020 - July 2021. The report embodies the original work of the candidate, to the best of our knowledge.

Signature of Internal Supervisor:



Dr. Manish Kumar Shrivastava, Assistant Professor,  
Department of Energy and Environment,  
TERI School of Advanced Studies



Dr. Vidhi M Chadda, In-Charge,  
Centre for Post Graduate Legal Studies,  
TERI School of Advanced Studies

**Certificate**

This is to certify that **Rohini Yadav** has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M. programme for the degree of LL.M.(Environment and Natural Resources Law) on the topic “**WTO REGIME AND WORLD ENERGY GOVERNANCE**” during January 2020 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Gopal K Sarangi,  
Assistant Professor  
Department of Policy Studies  
Date: Sept. 15, 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that **S.Saba** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “CONCEPT OF CARBON TAX: AN INDIAN PERSPECTIVE” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Manish Kumar Shrivastava  
Asst. Professor  
Dept. of Energy & Environment  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 15 September 2021



Dr. Vidhi M Chaddha  
Incharge  
Center for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 15 September 2021

Certificate

This is to certify that **Sakshi Khulve** has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M programme for the degree of LL.M ( Environment and Natural Resources Law) on the topic “**CHENNAI OIL SPILL: A CASE STUDY**” during January 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vishnu Konoorayar  
Professor  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: Sept. 15. 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

### Certificate

This is to certify that **SARA UPADHYAY** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic **THE IMPACT OF TRADE CONFLICTS ON RENEWABLE ENERGY IN CONTEXT OF EVOLVING GLOBAL GEO-POLITICAL SCENARIO AND IT'S SIGNIFICANCE FOR INDIA "** during January 2020-September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Advocate Ayushman Kheterpal  
Supervisor.



Dr. Vidhi M Chadda  
InCharge  
Centre for Post Graduate Legal Studies  
Teri School of Advances Studies.



### Certificate

This is to certify that **Shashank Shekhar Singh** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic **“BIO MEDICAL WASTE MANAGEMENT IN INDIA: A POLICY ANALYSIS”** during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Manish Kumar Srivastava  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Vidhi M Chadda,  
In-Charge,  
Centre for Post Graduate Legal Studies,  
TERI School of Advanced Studies

Certificate

This is to certify that **SHEEN KURIAKOSE** has carried out Dissertation work, for 2nd semester of LL.M.programme for the degree of LL.M. on the topic “**LAND ACQUISITION AND HUMAN RIGHTS: A STUDY WITH SPECIAL REFERENCE TO VIZHINJAM SEAPORT PROJECT IN KERALA**” during January 2020 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vishnu Konoorayar  
Professor  
Hidayatullah National Law University (HNLU)  
Raipur, Chhattisgarh



Dr Vidhi M Chadda  
In charge  
Center for Post Graduate Legal Studies  
TERI School of Advanced Studies.

**CERTIFICATE**

This is to certify that **Shiksha Srivastava** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**CRITICAL ANALYSIS OF PUBLIC PRIVATE PARTNERSHIP POLICY: FOCUS ON URBAN INFRASTRUCTURE DEVELOPMENT** during January 2021 – September 2021. The report embodies the original work of the candidate, to the best of our knowledge.



PROF. SHRI PRAKASH

Internal Supervisor,

Department of Policy Studies,

TERI School of Advanced Studies,

Date: September 2021



DR. VIDHI M CHADDA

In-Charge Centre for Post Graduate Legal Studies

TERI School of Advanced Studies

CERTIFICATE

This is to certify that Shruti has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “ANALYSIS FROM LEGAL PERSPECTIVE OF THE CROSS BORDER MOVEMENT OF PEOPLE AS MIGRANTS AND REFUGEES AS A RESULT OF CLIMATE CHANGE” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Manish Kumar Srivastava  
Assistant Professor  
TERI School of Advanced Studies

Date: 16<sup>th</sup> September 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

Date: 16<sup>th</sup> September 2021

## CERTIFICATE

This is to certify that Shruti Dwivedi has carried out Dissertation work, for 2<sup>nd</sup> semester of LL.M programme for the degree of LL.M on the topic ‘ZERO DAY’ TECHNIQUE: PARADIGMS OF APPLICATION IN INDIA'S METRO CITIES” during January 2021 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr Mallika Ramachandran  
Visiting Faculty  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
16 September 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
16 September 2021

### Certificate

This is to certify that **Shyamali Patgiri** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**SUSTAINABILITY IN TEA PLANTATIONS IN ASSAM: A WAY FORWARD TO ELEPHANT CONSERVATION**” during January 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vishnu Konoorayar  
Professor,  
Hidayatullah National Law University,  
TERI School of Advanced Studies,  
Date: September 2021



Dr. Vidhi M Chadda  
InCharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

**CERTIFICATE FOR SUPERVISOR(S) AND THE HEAD**

This is to certify that **Siddharth Shekhar** has carried out Dissertation work, for the 2nd semester of the LL.M. program for the degree of LL.M. on the topic “**REAL ESTATE REGULATION AND DEVELOPMENT ACT 2016: PROMOTER PERSPECTIVE IN CHANGING TIMES**” during January 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Mr. Prakhar Pandey  
Internal Supervisor,  
TERI School of Advanced Studies  
Date: September 2021



Dr. Vidhi M. Chadda  
InCharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

## Certificate

This is to certify that **SRUTHI K.**, has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**INFRASTRUCTURE DEVELOPMENT AND DISPLACED HABITATS: LEGAL VACUUM**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Signature of Student:  
Name: Sruthi K

Date: 15/09/2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies  
Date: 15/09/2021



Signature of Internal Supervisor  
Dr. Mallika Ramachandran  
Visiting Faculty  
CPGLS, TERI SAS



**Certificate**

This is to certify that **SURBHI KUMARI** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic **“THE IMPACT OF INDIAN POLICY AND JURISPRUDENCE AND CREATION OF SUSTAINABLE INDUSTRIAL INFRASTRUCTURE: A WAY FORWARD”** during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Advocate Ayushman Kheterpal  
External Supervisor,



Dr. Vidhi M Chadda  
InCharge  
Centre for Post Graduate Legal  
Studies  
Teri School of Advances Studies.

### Certificate

This is to certify that Sweta Ojha has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**BUSINESS RESPONSIBILITY TOWARDS HUMAN RIGHTS- NEED FOR A COMPREHENSIVE FRAMEWORK**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vidhi M Chadda  
Internal Supervisor  
Centre for Post Graduate Legal Studies  
TERI School of Advance Studies  
Date:



Dr. Vidhi M Chadda  
InCharge  
Centre for Post Graduate Legal Studies  
TERI School of Advance Studies

Format of the Certificate for Supervisor(s) and the Head

This is to certify that **Tanmay Pradeep** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**EXAMINE THE FACILITY OF DIFFERENTLY ABLED: A CASE STUDY OF LUCKNOW**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Shri Prakash,  
Supervisor  
Department of Policy Studies  
TERI School of Advanced Studies



Dr. Vidhi M Chadda  
In-charge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

## Certificate

This is to certify that **Tripti Manral** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**ANALYSIS OF THE LEGAL FRAMEWORK FOR OFF-GRID RENEWABLE ENERGY SECTOR IN INDIA**” during January 2021 – September 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Gopal K Sarangi  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Date: Sept. 15, 2021



Dr. Vidhi M Chadda  
Incharge  
Centre for Post Graduate Legal Studies  
TERI School of Advanced Studies

## Certificate

This is to certify that Name has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “Tribal ‘Self-Rule’ in India – Need for Autonomous Government Structure” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



**Ms. Manisha Badoni**

**Faculty**

**Centre for Post Graduate Legal Studies**

**TERI School of Advanced Studies**

**September 2021**



**Dr. Vidhi M Chadda**

**Incharge**

**Centre for Post Graduate Legal Studies**

**TERI School of Advanced Studies**

**September 2021**

### Certificate

This is to certify that **Varuna Verma** has carried out Dissertation work for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**CORPORATE SOCIAL RESPONSIBILITY IN PUBLIC HEALTH: A CASE STUDY OF TOP 10 BSE COMPANIES BY MARKET CAPITALIZATION**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Vidhi M Chadda  
Supervisor  
Centre for post graduate legal Studies  
TERI School of Advanced Studies



Dr. Vidhi M Chadda  
Incharge  
Centre for post graduate legal Studies  
TERI School of Advanced Studies

### Certificate

This is to certify that **Yamini Tyagi** has carried out Dissertation work, for 2nd semester of LL.M. programme for the degree of LL.M. on the topic “**Sustainable consumption and consumer policies in India**” during January 2020 – July 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



Dr. Manish Srivastava

Internal Supervisor

Centre for Post Graduate Legal Studies

TERI School of Advanced Studies

Date:



Dr. Vidhi M Chaddha

In-charge

Department of Energy and Environment

TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Aayush Saigal has carried out his minor project in partial fulfillment of the requirement for the Degree of Master of Technology in Water Resources Engineering and Management on the topic “RESILIENT ACTION PLAN FOR COASTAL CITY- MANGALORE” during January 2021 to July 2021.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

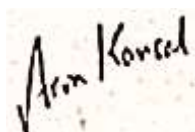
Date: July 12, 2021



Dr. Ranjana Ray Chaudhuri  
(Internal Supervisor)  
Lecturer,  
TERI SAS, New Delhi



Dr. Pawan Kumar Rai  
(External Supervisor)  
Senior Engineer,  
Royal HaskoningDHV



Prof. Arun Kansal  
Head of the Department  
Department of Regional Water Studies  
TERI School of Advanced Studies



## CERTIFICATE

This is to certify that Ekansha Khanduja has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Technology in Water Resource Engineering and Management on the topic “Simulation of Hydrology of Lake Pichola and Lake Fateh Sagar of Udaipur District of India using ArcSWAT” during January 2021 to August 2021. The project was carried out at Development Alternatives.

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 13 Aug 2021



Gitika Goswami  
(External Supervisor)  
Senior Programme Director –  
Policy Research & Planning  
Development Alternatives



Dr. Vinay S.P. Sinha  
(Internal Supervisor)  
Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Prof. Arun Kansal  
Head of Department  
Coca Cola Department of Regional Water Studies  
TERI School of Advanced Studies

**CERTIFICATE**

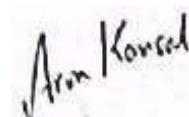
This is to certify that Niharika Labhsetwar has carried out her major project in fulfillment of the requirement for the Degree of Master of Water Resource Engineering & Management on the topic **Hydraulic Modeling of a Water Supply Scheme using Open-source Software** during 20<sup>th</sup> January to 12<sup>th</sup> July 2021. The project was carried out with Centre for Urban Science and Engineering, IIT Bombay & TERI School of Advanced Studies.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 12<sup>th</sup> July 2021



**Dr Pradip Kalbar**  
( External Supervisor)  
Associate Professor  
Centre for Urban Science  
and Engineering  
(CUSE), IIT Bombay



**Prof Arun Kansal**  
(Internal Supervisor)  
HoD  
Coca-Cola Department of  
Regional Water Studies  
TERI School of Advanced  
Studies

## CERTIFICATE

This is to certify that Preethi Vasudevan has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Technology in Water Resources Engineering and Management on the topic “LULC CHANGES AND HYDROLOGICAL ASSESSMENT OF NAJAFGARH JHEEL – A TRANSBOUNDARY WETLAND OF DELHI AND HARYANA” during January 2021 to June 2021. The project was carried out at Wetlands International South Asia.

The Dissertation embodies the original work of the candidate to the best of our knowledge

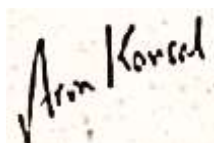
Date: 12<sup>th</sup> July 2021



Harsh Ganapathi  
(External Supervisor)  
Technical Officer  
Wetlands International South Asia



Ranjana Ray Chaudhuri  
(Internal Supervisor)  
Lecturer  
Department of Regional Water  
Studies  
TERI School of Advanced Studies



Prof. Arun Kansal  
Head of Department  
Coca Cola Department of Regional Water Studies  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Sandipan Samanta has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Technology in Water Resource Engineering and Management on the topic “Urban Drought Assessment in Rain-fed Region: A case study of Kochi City” during January 2021 to June 2021. The project was carried out at Royal Haskoning DHV Consulting India, Noida.

The Dissertation embodies the original work of the candidate to the best of our knowledge

**Date:** 25<sup>th</sup> June 2021



**Dr. Balaji Angamuthu**

(External Supervisor-I)  
Team Leader-Projects Water India



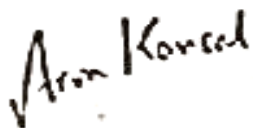
**Dr. Vinay Sinha Prasad**

(Internal Supervisor)  
Associate Prof, Head of Department  
Department of Natural Resource  
TERI-School of Advanced Studies  
New Delhi-110070



**Ms. Mridula Kakarla**

(External Supervisor-II)  
Design Engineer-Water India  
Royal Haskoning DHV Consulting  
Noida- 201301



**Prof. Arun Kansal**

Dean-Academic & Head of Department  
Coca-Cola Department of Regional Water Studies  
TERI-School of Advanced Studies, New Delhi

## CERTIFICATE

This is to certify that Sougata Bera has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Technology in Water Resources Engineering and Management on the topic “**River & Tidal Flood Modelling for Hooghly River using TUFLOW**” during January 2021 to July 2021. The project was carried out at TERI School of Advanced Studies, New Delhi.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

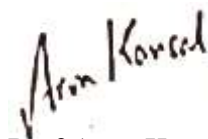
Date: 13.07.2021



Ms. Ranjana Ray Chaudhuri  
(External Supervisor)  
Lecturer  
Coca-Cola Department of Regional  
Water Studies  
TERI School of Advanced Studies



Dr. Sherly M.A.  
(Internal Supervisor)  
Assistant Professor  
Coca-Cola Department of Regional  
Water Studies  
TERI School of Advanced Studies

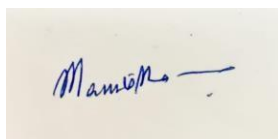


Prof Arun Kansal  
Dean (Academic) and Professor  
Coca-Cola Department of Regional Water Studies  
TERI School of Advanced Studies

**CERTIFICATE**

This is to certify that Mr. **Abhimanyu Prakash** has carried out his major project in partial fulfillment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Tribal Art and Craft as a source of Livelihood: Assessing the market linkages for traditional art and craft of Scheduled Tribes in Odisha*” during **February 2021 to June 2021**. The project was carried out at **TRIFED- Tribal Cooperative Marketing Development Federation of India Limited, Ministry of Tribal Affairs**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Smt Mamta Sharma  
Senior Manager, Marketing &  
Development Division  
Tribal Cooperative Marketing  
Development Federation of India Ltd  
Ministry of Tribal Affairs  
New Delhi,

Date: 5<sup>th</sup> July 2021



**Signature of Internal Supervisor**

Dr Swarup Dutta  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi, 110070

Date: 5<sup>th</sup> July 2021



**Signature of Head of the Department**

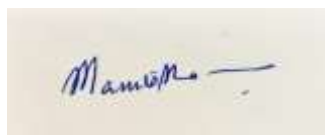
Dr Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

Date: 5<sup>th</sup> July 2021

### **CERTIFICATION**

This is to certify that Mr. **Abhiram Sarath** has carried out his major project in partial fulfillment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “**Exploring the potential of MFPs in enhancing tribal livelihood: A study of 4 VDV KCs in Mayurbhanj and Rayagada districts of Odisha**” during **February 2021 to June 2021**. The project was carried out at **TRIFED- Tribal Cooperative Marketing Development Federation of India Limited, Ministry of Tribal Affairs**.

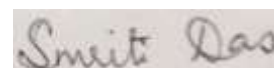
The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Smt Mamta Sharma  
Senior Manager, Marketing &  
Development Division  
Tribal Cooperative Marketing  
Development Federation of India Ltd  
Ministry of Tribal Affairs  
New Delhi, 110020

Date: 17<sup>th</sup> July 2021



**Signature of Internal Supervisor**

Dr Smriti Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi, 110070

Date: 17<sup>th</sup> July 2021



**Signature of Head of the Department**

Dr Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

Date: 17<sup>th</sup> July 2021

### CERTIFICATE

This is to certify that **Mr. Aloor Chinmaya Sai Ganesh** has carried out his major project in partial fulfillment of the requirement for the degree of Master of Arts in Sustainable Development Practice *“Implementation of Farmer Producer Organizations (FPOs) and its impact on Farmers Income: A Case Study of Green Blend Farmer Producer Company”* during **February 2021 to June 2021**. The project was carried out at **National Institute for Rural Development and Panchayati Raj (NIRDPR), Govt. of India**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Dr. Ch. Radhika Rani  
Associate Professor and Head  
Centre for Agrarian Studies  
National Institute of Rural Development and  
Panchayati Raj (NIRDPR), Ministry of Rural  
Development, Govt. of India

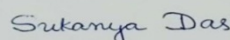


**Signature of Internal Supervisor**

Dr. Chubamenla Jamir  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies  
New Delhi- 110070

Date : 23<sup>rd</sup> June 2021

Date: 4<sup>th</sup> July 2021



**Signature of Head of Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

Date: 7<sup>th</sup> July 2021



**CERTIFICATE**

This is to certify that Mr. **Anudeep R** has carried out his major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Energy-Water-Agriculture Nexus: A Study on the Impact on Livelihood in Gujarat*” during **February 2021 to June 2021**. The project was carried out at **Aga Khan Rural Support Programme(India), A Programme of the Aga Khan Development Network**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Mr. Manikant Giri  
Manager (Capacity Building)  
Aga Khan Rural Support Programme (India)  
Ahmedabad, Gujarat

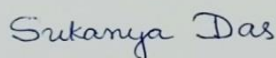
Date: 06/07/2021



**Signature of Internal Supervisor**

Dr Gopal K. Sarangi  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi, 110070

Date: 06/07/2021



**Signature of Head of the Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies

New Delhi- 110070

Date: 06/07/2021

**CERTIFICATE**

This is to certify that **Mr. Anurag Shukla** has carried out his major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*State of Decentralized Renewable Energy in Assam*” during **February 2021 to June 2021**. The project was carried out at the **IORA Ecological Solutions Pvt. Ltd.**

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Dr. Supriya Bhatla

Asst. Vice President,  
Projects and Partnerships  
IORA Ecological Solutions  
New Delhi- 110030

Date: 28<sup>th</sup> June 2021

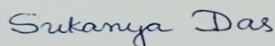


**Signature of Internal Supervisor**

Dr. Gopal Sarangi

Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

Date: 6<sup>th</sup> July 2021



**Signature of Head of the Department**

Dr. Sukanya Das

Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

Date: 6<sup>th</sup> July 2021

**CERTIFICATE**

This is to certify that **Ms. Anwesha Chaliha** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic *“Understanding the Socio-Economic Well-being of the Tribal Community around Pobitora Wildlife Sanctuary”* from **February 2021 to June 2021**. The project was carried out at **Aaranyak**.

The report embodies the original work of the candidate to the best of our knowledge.



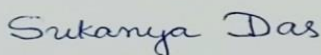
Dr. Bibhuti Prasad Lahkar  
Head of Conservation & Livelihood Division  
Aaranyak  
Guwahati, Assam-781028

Date: 5th July 2021



Dr. Chubamenla Jamir  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies  
New Delhi-110070

Date: 5th July 2021



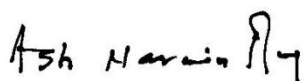
Dr. Sukanya Das  
Associate Professor and Head  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

Date: 5<sup>th</sup> July 2021

**CERTIFICATE**

This is to certify that **Ms. Archana Priyam Hazarika** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic *“Impact of climate change on women’s livelihood: A case study on Scheduled Tribe women of Arunachal Pradesh”* during **February 2021 to June 2021**. The project was carried out at the **Institute of Social Sciences, Delhi**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Dr. Ash Narain Roy  
Director  
Institute of Social Sciences  
8, Nelson Mandela Road, Vasant Kunj  
New Delhi-110070

Date: 5th July 2021

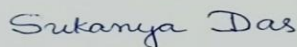


**Signature of Internal Supervisor**

Dr. Swarup Dutta  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

Date: 5th July 2021

:



**Signature of Head of the Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

Date: 5th July 2021

## CERTIFICATE

This is to certify that **Diya Choudhury** has carried out her major project in partial fulfillment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “**Gender, Water and Climate Change: Assessing the role of Jal Jeevan Mission in aiding gender equality in terms of access and participation**” during **February 2021 to June 2021**. The project was carried out at **The Ministry of Jal Shakti**.

The report embodies the original work of the candidate to the best of our knowledge.



Signature of External Supervisor

Mr. Sourav Panda  
Team Leader  
Ministry of Jal Shakti, Govt. of India  
Studies  
New Delhi - 110011

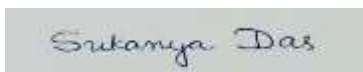
Date: July 05, 2020



Signature of Internal Supervisor

Dr. Fawzia Tarannum  
Assistant Professor  
Department of Regional Water  
TERI School of  
Advanced Studies New  
Delhi- 110070

Date: July 05, 2020



Signature of Head of the Department

Dr. Sukanya Das  
Head of the Department  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

Date: July 05, 2020

## CERTIFICATE

This is to certify that **Ms. Isha Joshi** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic *“Prevalence of overweight or obesity, self-perceptions related to body weight and weight management practices of adult population: a web based online survey”* during **February 2021 to June 2021**. The project was carried out at the **Indian Council of Medical Research - National Institute of Cancer Prevention and Research**.

The report embodies the original work of the candidate to the best of our knowledge.

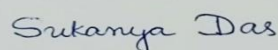
Date: 5<sup>th</sup> July 2021



**Dr. Prashant Kumar Singh**  
(External Supervisor)  
Scientist 'D'  
Division of Preventive Oncology  
ICMR-National Institute of Cancer  
Prevention and Research  
Noida, Uttar Pradesh -201301



**Dr. Chandan Kumar**  
(Internal Supervisor)  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

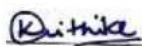


**Dr. Sukanya Das**  
Head and Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

## CERTIFICATE

This is to certify that **Ms. Ishita Jain** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic ***“COSTS OF POOR QUALITY OF POWER AND THE WILLINGNESS TO PAY FOR IMPROVED POWER QUALITY IN LUCKNOW AND VISAKHAPATNAM”*** during February 2021 to June 2021. The project was carried out at the **Research Triangle Institute Global India Private Limited**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**  
Ms. Krithika P R  
Manager  
Research Triangle Institute Global  
India Private Ltd

Date: 5<sup>th</sup> July 2021



**Signature of Internal Supervisor**  
Dr. Gopal K. Saranghi  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

Date: 5<sup>th</sup> July 2021



**Signature of Head of the Department**  
Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

Date: 5<sup>th</sup> July 2021

## CERTIFICATE

This is to certify that **Ms. Kriti Luthra** has carried out her major project in partial fulfillment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Assessment of Routine Dietary Pattern and Development of Behavioural Intervention Package*” during **February 2021 to June 2021**. The project was carried out at the **Indian Council of Medical Research - National Institute of Cancer Prevention & Research**.

The report embodies the original work of the candidates to the best of our knowledge.

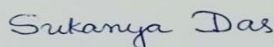
Date: 5<sup>th</sup> July, 2021



**Dr. Prashant Kumar Singh**  
(External Supervisor)  
Scientist 'D'  
Division of Preventive Oncology  
ICMR-National Institute of Cancer  
Prevention and Research  
Noida, Uttar Pradesh -201301



**Dr. Chandan Kumar**  
(Internal Supervisor)  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070



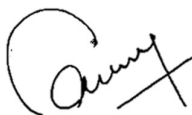
**Dr. Sukanya Das**  
Head and Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070



## CERTIFICATE

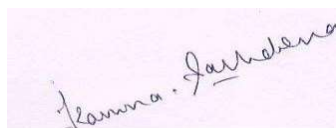
This is to certify that **Ms. Mansi Khurana** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “**Air Quality During Construction and Its Impact on Site Work Force**” during February 2021 to June 2021. The project was carried out at the **Green Tree Global**.

The report embodies the original work of the candidate to the best of our knowledge.



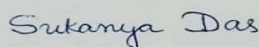
Signature of External Supervisor  
Mr. Anurag Bajpai  
Director  
GreenTree Global  
Noida, Uttar Pradesh  
201301

Date : 05 July 2021



Signature of Internal Supervisor  
Dr. Kamna Sachdeva  
Associate Professor & HoD  
Department of Energy and Environment  
TERI School of Advanced Studies  
New Delhi-110070

Date : 09 July 2021



Signature of Head of Department  
Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070  
Date : 09 July 2021

## CERTIFICATE

This is to certify that, **Ms. Mansi Wadhwa** has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Arts in Sustainable Development Practice on the topic “*Estimating the Post-Consumption Waste Burden of Tobacco Products in India*” from **February 2021 to June 2021**. The project was carried out at the **Indian Council of Medical Research- National Institute of Cancer Prevention and Research, Noida**.

The report embodies the original work of the candidate to the best of our knowledge.

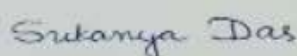
Date: 5<sup>th</sup> July 2021



**Dr. Prashant Kumar Singh**  
(External Supervisor)  
Scientist 'D'  
Division of Preventive Oncology  
ICMR-National Institute of Cancer  
Prevention and Research  
Noida, Uttar Pradesh -201301



**Dr. Chandan Kumar**  
(Internal Supervisor)  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

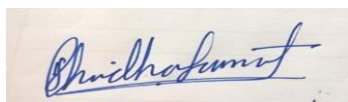


**Dr. Sukanya Das**  
Head and Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

### CERTIFICATE

This is to certify that **Ms. Nivedita Krishnamurthy** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic ***“Exploring the BIOFIN Approach for Mainstreaming Biodiversity Conservation in Select Government Schemes”*** during **February 2021 to June 2021**. The project was carried out at the Tata Institute of Social Sciences, Tuljapur.

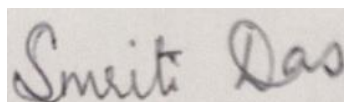
The report represents the original work of the candidate to the best of our knowledge.



#### Signature of External Supervisor

Dr. Shridhar Samant  
Assistant Professor  
School of Rural Development  
Tata Institute of Social Sciences  
Tuljapur- 413601

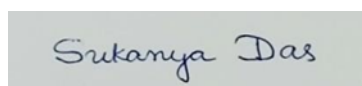
Date: 05th July 2021



#### Signature of Internal Supervisor

Dr. Smriti Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

Date: 17th July 2021



#### Signature of Head of the Department

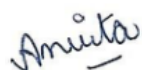
Dr Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070

Date: 19th July 2021

## CERTIFICATE

This is to certify that **Ms. Pragy Baghel** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “**Nature Guide Training and Community Based Ecotourism: A case of Uttarakhand**” during February 2021 to June 2021. The project was carried out at the **Centre for Ecology Development and Research (CEDAR)**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Dr. Anvita Pandey

Fellow/ Coordinator

Centre for Ecology Development and Research

Dehradun, Uttarakhand- 248006

Date: 5<sup>th</sup> July 2021



**Signature of Internal Supervisor**

Dr. Swarup Dutta

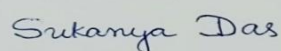
Assistant Professor

Department of Policy Studies,

TERI School of Advanced Studies

New Delhi-110070

Date: 5<sup>th</sup> July 2021



**Signature of the Head of Department**

Dr. Sukanya Das

Associate Professor

Department of Policy Studies

TERI School of Advanced Studies

New Delhi- 110070

Date: 5<sup>th</sup> July 2021

## CERTIFICATE

This is to certify that **Ms. Pratiti Choudhury** has carried out her major project in partial fulfillment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Reviewing The Role and Perception of Frontline Health Workers and Community Stakeholders Regarding the Usage of Smokeless Tobacco Among Women of Reproductive Age*” during **February 2021 to June 2021**. The project was carried out at the **Indian Council of Medical Research-National Institute of Cancer Prevention and Research**.

The report embodies the original work of the candidate to the best of our knowledge.

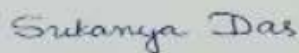
Date: 5<sup>th</sup> July, 2021



**Dr. Prashant Kumar Singh**  
(External Supervisor)  
Scientist 'D'  
Division of Preventive Oncology  
ICMR-National Institute of Cancer  
Prevention and Research  
Noida, Uttar Pradesh -201301



**Dr. Chandan Kumar**  
(Internal Supervisor)  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070



**Dr. Sukanya Das**  
Head and Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

### CERTIFICATE

This is to certify that **Mr Prithvi Singh Chauhan** has carried out his major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Nature based Solutions: A review of key issues in India*” during **February 2021 to June 2021**. The project was carried out at the **Vertiver Sustainability Consultancy (Vertiver Pvt Ltd)**

The report embodies the original work of the candidate to the best of our knowledge.



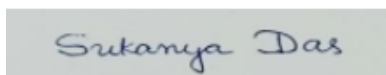
**Signature of External Supervisor**

Ms Tanya Jaswal  
Senior Social Designer  
Vertiver Pvt. Ltd.  
Saket, New Delhi-110017  
Date: 29th June 2021



**Signature of Internal Supervisor**

Dr. Swarup Dutta  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070  
Date: 7th July 2021



**Signature of Head of Department**

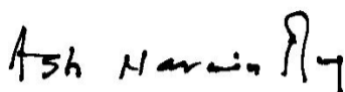
Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070  
Date: 7th July 2021



**CERTIFICATE**

This is to certify that **Ms. Priti Bisht** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Rural Women of Uttarakhand in environment conservation: Assessing gaps and challenges*” during **February 2021 to June 2021**. The project was carried out at the **Institute of Social Sciences, Delhi**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Dr. Ash Narain Roy

Director

Institute of Social Sciences

8, Nelson Mandela Road, Vasant Kunj

New Delhi-110070

Date: 5<sup>th</sup> July 2021



**Signature of Internal Supervisor**

Dr. Swarup Dutta

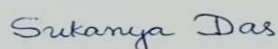
Assistant Professor

Department of Policy Studies

TERI School of Advanced Studies

New Delhi- 110070

Date: 5<sup>th</sup> July 2021



**Signature of Head of the Department**

Dr. Sukanya Das

Associate Professor

Department of Policy Studies

TERI School of Advanced Studies

New Delhi-110070

Date: 5<sup>th</sup> July 2021

## 1.3.4.C.

**Certificate**

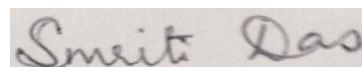
This is to certify that **Mr. Rajesh Giri** has carried out his major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic ***“Public Policy Process in Karnali Province, Nepal: Study on Equity, Inclusion and Institutional Coordination in Flagship Programs”*** during **February 2021 to June 2021**. The project was carried out at the **Office of Chief Minister and Council of Ministers, Karnali Province, Nepal**.

The report embodies the original work of the candidate to the best of our knowledge.

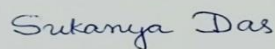
Date: 5th July 2021


**Signature of External Supervisor**

Mr. Keshav Prasad Upadhyay  
Under Secretary  
Office of Chief Minister and Council of Ministers,  
Karnali Province, Nepal


**Signature of Internal Supervisor**

Dr. Smriti Das  
Associate Professor  
TERI School of Advanced Studies  
New Delhi, India


**Signature of Head of Department**

Dr. Sukanya Das  
Head of the Department  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi



## **CERTIFICATE**

This is to certify that **Mr. Rohan Jacob** has carried out his major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Assessing the Functioning of Millennium Alliance Grant*” during **February 2021 to June 2021**. The project was carried out at **Thinkthrough Consulting**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Mr. Gaurav Bhargava  
Senior Vice President  
Thinkthrough Consulting  
Building no 30, Basant Lok  
New Delhi – 110057

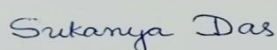
Date: 5<sup>th</sup> July 2021



**Signature of Internal Supervisor**

Dr. Gopal K Sarangi  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi – 110070

Date: 5<sup>th</sup> July 2021



**Signature of Head of the Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced  
Studies New Delhi - 110070

Date: 5<sup>th</sup> July 2021

## CERTIFICATE

This is to certify that **Ms. Rupal Jain** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Determinants of Smokeless Tobacco Consumption among Pregnant and Lactating Women: A Socio Ecological Perspective*” during **February 2021 to June 2021**. The project was carried out at the **Indian Council of Medical Research: National Institute of Cancer Prevention and Research**.

The report embodies the original work of the candidate to the best of our knowledge.

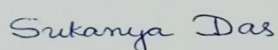
Date: 5 July, 2021



**Dr. Prashant Kumar Singh**  
(External Supervisor)  
Scientist 'D'  
Division of Preventive Oncology  
ICMR-National Institute of Cancer  
Prevention and Research  
Noida, Uttar Pradesh -201301



**Dr. Chandan Kumar**  
(Internal Supervisor)  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070



**Dr. Sukanya Das**  
Head and Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

## **CERTIFICATE**

This is to certify that **Mr. Samarth Kaushal** has carried out his major project in partial fulfillment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “**Developing user guide and standard operating procedure for OIF 2.0**” during February 2021 to June 2021. The project was carried out at the **ThinkThrough Private Limited**.

The report embodies the original work of the candidates to the best of knowledge.



**Signature of External Supervisor**

Mr. Vijay Ganapathy


Partner & Leader

Development Sector Advisory

ThinkThrough Private Limited

New Delhi- 110057

Date: 5<sup>th</sup> July 2021



**Signature of Internal Supervisor**

Dr. Gopal K Sarangi

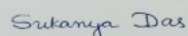
Assistant Professor

Department of Policy Studies

TERI School of Advanced Studies

New Delhi- 110070

Date: 5<sup>th</sup> July 2021



**Signature of Head of the Department**

Dr. Sukanya Das

Associate Professor

Department of Policy Studies

TERI School of Advanced Studies

New Delhi-110070

Date: 5<sup>th</sup> July 2021

### **CERTIFICATE**

This is to certify that **Mr. SATVIK PARASHAR** has carried out his major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic ***“UNDERSTANDING THE SPATIAL PATTERN OF AGRICULTURAL LANDSCAPE AND ITS ASSOCIATION WITH CLIMATIC & SOCIAL FACTORS: A COMPARATIVE STUDY OF SOUTH GARO AND EAST KHASI HILLS, MEGHALAYA, NORTH EASTERN INDIA”*** during **February 2021 to June 2021**. The project was carried out at **IORA Ecological Solutions**.

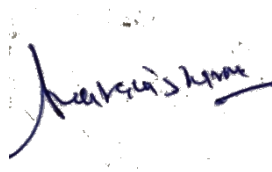
The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Mr. Rohit Chhimwal  
Assistant Manager  
GIS and RS  
IORA Ecological Solutions  
New Delhi – 110030

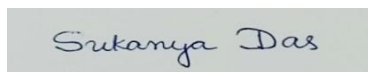
Date: 5<sup>th</sup> July, 2021



**Signature of Internal Supervisor**

Dr. Anu Rani Sharma  
Assistant Professor  
Department of Natural Resource Management  
TERI School of Advanced Studies  
New Delhi – 110070

Date: 5<sup>th</sup> July, 2021



**Signature of Head of the Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi - 110070

Date: 6<sup>th</sup> July, 2021

**CERTIFICATE**

This is to certify that **Ms. Srotoswini Karmakar** has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Arts in Sustainable Development Practice on the topic “**Swachh Bharat Abhiyaan in Himalayan Region and Access to Sanitation by Women: A Case of District Uttarkashi, Uttarakhand**” during **February 2021 to June 2021**. The project was carried out at the **Ministry of Jal Shakti**.

The report embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Mr Sourav Panda  
Research and Communication Officer  
Ministry of Jal Shakti  
New Delhi- 110011

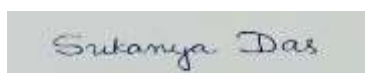
Date: 5<sup>th</sup> July 2021



**Signature of Internal Supervisor**

Dr Swarup Dutta  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced  
Studies New Delhi-110070

Date: 5<sup>th</sup> July 2021



**Signature of Head of the Department**

Dr Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

Date: 5th July 2021

## CERTIFICATE

This is to certify that **Ms Swarnima Mudgal** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice in YOUR STREAM on the topic ***“ASSESSMENT OF THE CAPACITY OF FARMERS WITH RELATION TO AGRICULTURE EXPORT IN UTTARKASHI”*** during February 2021 to June 2021. The project was carried out at the **Ministry of Jal Shakti**.

The work embodies the original work of the candidate to the best of knowledge,



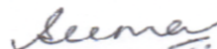
**Signature of External Supervisor**

Mr Saurav Panda

Team Leader

Ministry of Jal Shakti

Date: 5<sup>th</sup> July 2021



**Signature of Internal Supervisor**

Dr Seema Sangita

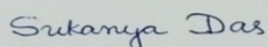
Assistant Professor

Department of Policy Studies

TERI School of Advanced Studies

New Delhi – 110070

Date: 9<sup>th</sup> July 2021



**Signature of Head of Department**

Dr Sukanya Das

Associate Professor

Department of Policy Studies

TERI School of Advanced Studies

New Delhi- 110070

Date: 9<sup>th</sup> July 2021

## CERTIFICATE

This is to certify that **Vasundhra Singh** has carried out her major project in partial fulfilment of the requirement for the degree of Master of Arts in Sustainable Development Practice on the topic “*Adherence to a culturally tailored Indian weight-reduction diet developed for adults aged 35 or above*” during **February 2021 to June 2021**. The project was carried out at the **Indian Council of Medical Research – National Institute for Cancer Prevention and Research**.

The report embodies the original work of the candidate to the best of our knowledge.

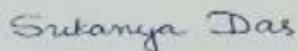
**Date: 5<sup>th</sup> July 2021**



**Dr. Prashant Kumar Singh**  
(External Supervisor)  
Scientist ‘D’  
Division of Preventive Oncology  
ICMR-National Institute of Cancer  
Prevention and Research  
Noida, Uttar Pradesh -201301



**Dr. Chandan Kumar**  
(Internal Supervisor)  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi- 110070



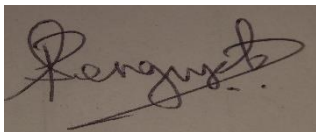
**Dr. Sukanya Das**  
Head and Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
New Delhi-110070

## CERTIFICATE

This is to certify that Abirami B has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “Sustainability Reporting in accordance with GRI Standards, SASB and Sustainable Development Goals” during January 2021 to June 2021. The project was carried out at Thinkthrough Consulting Private Limited, New Delhi.

The project “Sustainability Reporting in accordance with GRI Standards, SASB and Sustainable Development Goals” embodies the original work of the candidate to the best of our knowledge.

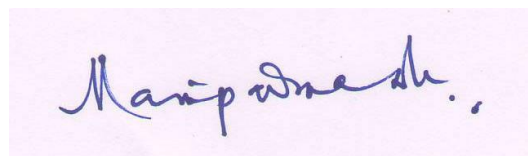
Date: 05.07.2021



Mr Prateek Sengupta  
(External Supervisor)  
Senior Manager, Sustainability, Climate  
Change and ESG  
Thinkthrough Consulting Private Ltd



Ms Jayati Talapatra  
(Internal Supervisor)  
Business Sustainability Faculty  
& Consultant (Department of  
Business Sustainability and  
TERI School of Advanced  
Studies)  
President at WICCI Delhi  
Sustainable Businesses Council



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies



### CERTIFICATE FROM SUPERVISORS AND HOD

It is to certify that Aman Yadav has worked on his major project in partial fulfillment of the requirement for the MBA degree in Business sustainability on the topic **“Techniques for Sustainable waste management in Indian cities”** during **January 2021 to 2021** may. The project was carried out at **IQVIA**.

This Dissertation embodies the original work of the candidate Aman in the best of our knowledge.

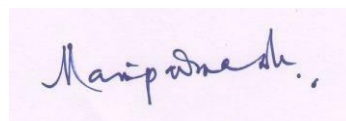
Date:



Signature  
Name: Ravesh Ravinder Kaw  
(External Supervisor)  
Designation  
Organization



Signature  
Name  
(Internal Supervisor)  
Designation  
Department of Business and Sustainability  
TERI School of Advanced Studies



Signature:

Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Anandita Kar has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “A Study on Progress of Water Sector in India” from 1<sup>st</sup> February 2021 to 30<sup>th</sup> May 2021. The project was carried out at Envint.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

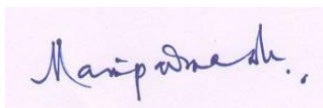
Date: 08<sup>th</sup> July 2021



Mr. Manish Jain  
Co-Founder  
Envint Global  
Mumbai



Mrs. Jayati Talpatra  
Visiting Faculty  
Department of Business Sustainability  
TERI School of Advanced Studies



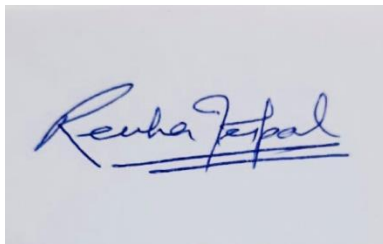
Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Arjun Khara has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “Creating a Brand Audit and a Brand Communication Plan for Jaquar’s Sustainability” during February 2021 to May 2021. The project was carried out at Jaquar & Company Pvt. Ltd.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 05<sup>th</sup> July 2021



Ms. Rekha Tejpai  
(External Supervisor)  
Senior Manager (Marcom Dept.)  
Jaquar & Company Pvt. Ltd.



Dr. Shruti Sharma Rana  
(Internal Supervisor)  
Professor  
Department of Business and Sustainability  
TERI School of Advanced Studies



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Mr. Avnish Kumar Singh has carried out his major project in partial fulfillment of the requirement for the Degree: Master of Business Administration in Business Sustainability on the topic “Sustainability Analysis in accordance with GCF Framework” during February 2021 to June 2021. The project was carried out at SustainoMetric, Varanasi.

The project “Sustainability reporting in accordance with GCF Framework” embodies the original work of the candidate to the best of our knowledge.

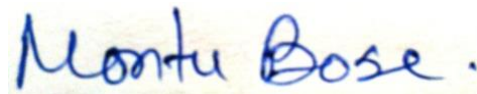
Date: 8<sup>th</sup> July 2020



Mrs. Rajani Panday  
(External Supervisor)

Project Lead

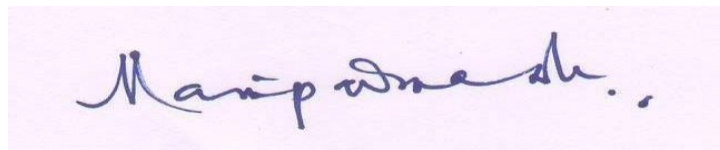
SustainoMetric



Dr. Montu Bose  
(Internal Supervisor)

Professor

TERI School of Advanced Studies



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

**CERTIFICATE**

This is to certify that Ms. Charvi Saini has carried out her Major Project in partial fulfillment of the requirement for the Degree of Master of Business Administration in Business Sustainability on the topic ‘Incorporating Sustainability: A Business And Consumer Perspective’ during March 2021 to July 2021. The project was carried out at Micro Instruments Co.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

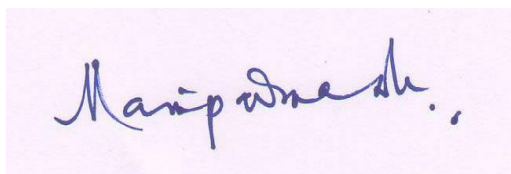
Date: June 15, 2021



**Mr. Ashawant Gupta**  
Senior Manager  
Micro Instruments Co.



**Dr. Shruti Sharma Rana**  
Assistant Professor, DBS  
TERI School of Advanced Studies



**Prof. Manipadma Datta**  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## CERTIFICATE

---

This is to certify that Denver Magdol Nogueiro has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “Developing a Strategic Implementation Framework for Sanitation Certifications under Swachh Bharat Mission - Urban: An Impact Assessment Approach” during February 2021 to May 2021. The project was carried out at IQVIA.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

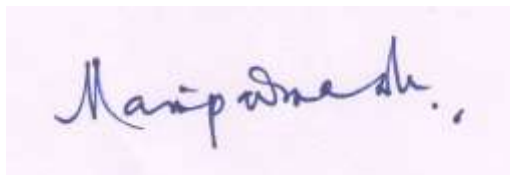
Date: 8 July 2021



Mr. Rahul Nigam  
(External Supervisor)  
Project Manager  
IQVIA



Dr. Amit Singh  
(Internal Supervisor)  
Department of Energy and Environment  
TERI School of Advanced Studies



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

**CERTIFICATE**

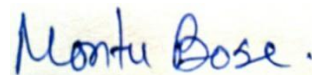
This is to certify that GARIMA TEWARI has carried out her major project in partial fulfillment of the requirement for the degree of Master of (MBA) in BUSINESS SUSTAINABILITY on the topic “ **GARBAGE FREE CITY (GFC) STAR RANKING IN INDIA | ANALYSIS OF URBAN LOCAL BODY (ULB) LEVEL DATA**” during 22<sup>nd</sup> January 2021 to 22<sup>nd</sup> May 2021. The project was carried out at the IQVIA.

To the best of our knowledge, the thesis embodies the original work of the candidate.

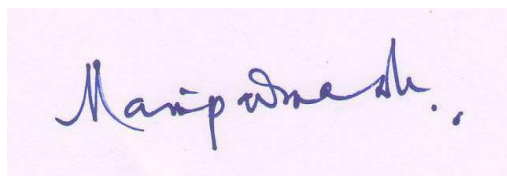
Date: 7<sup>th</sup> July 2021



*Dr. Rahul Nigam  
(External Supervisor)  
Project Manager  
IQVIA*



*Dr. Montu Bose  
(Internal Supervisor)  
Asst. Professor  
Deptt. Of Business and sustainability  
TERI School of Advanced Studies,  
New Delhi*



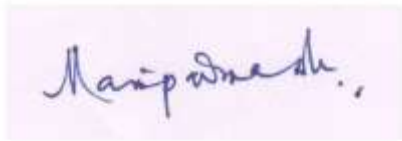
*Dr. Manipadma Datta  
(Professor & Head)  
Department of Business and  
sustainability  
TERI School of Advanced Studies, New  
Delhi*

## CERTIFICATE

This is to certify that HENA BANERJEE (12 font) has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “A STUDY ON SUSTAINABLE PRACTICES IN FASHION INDUSTRY” (12 font) during February 2021 to June 2021. The project was carried out at Benetton India private Ltd.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 8<sup>th</sup> July 2021



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies



Shruti Sharma Rana  
(Internal Supervisor)  
Professor  
Department of Business and Sustainability  
TERI School of Advanced Studies



**CERTIFICATE**

This is to certify that Joysurya pal has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Business Administration in your stream on the topic “How Swachh Bharat abhiyan paradigm changes by garbage free city star rating parameter with city involvement” during 22<sup>nd</sup> January 2021 to 1<sup>st</sup> May 2021. The project was carried out at IQVIA.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

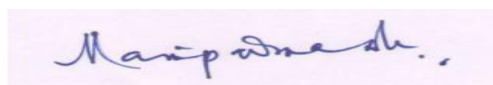
Date: 1<sup>st</sup> July 2021



Name Rahul Nigam  
(External Supervisor)  
Project Manager  
IQVIA



Name-Shruti Sharma Rana  
(Internal Supervisor)  
Assistant Professor  
Department of Business and  
TERI School of Advanced  
Studies



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

***Abstract***

## CERTIFICATE

This is to certify that Ms. Manasvi Bansal has carried out her Major Project in partial fulfilment of the requirement for the Degree of Master of Business Administration in Business Sustainability on the topic “Incorporating Resilience in Urban Power Systems: Developing a Framework for India’s Urban Power Sector Sustainability” during February 2021 to June 2021. The project was carried out at KPMG Global Services.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: July 2021



**Mr. Sumit Sharma**

Manager, DA Core-Infra Analytics  
KPMG Global Services



**Dr. Montu Bose**

Assistant Professor, DBS  
TERI School of Advanced Studies



**Prof. Manipadma Datta**

Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## **CERTIFICATE**

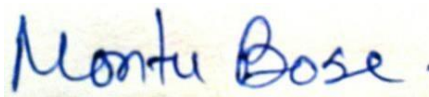
This is to certify that Pallavi Keshri has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “Open Defecation Free Certification Ranking in India” during January 2021 to May 2021. The project was carried out at IQVIA.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

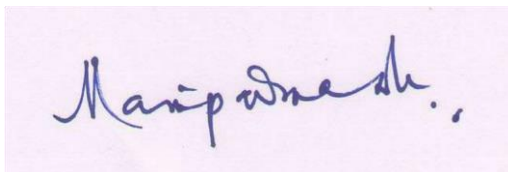
Date: 7th July, 2021



Name: Dr. Rahul Nigam  
(External Supervisor)  
Project Manager  
IQVIA



Name: Dr. Montu Bose  
(Internal Supervisor)  
Professor  
Department of Business and Sustainability  
TERI School of Advanced Studies



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability

## CERTIFICATE

This is to certify that Paras Agrawal has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in Business Sustainability on the topic “Innovation Excellence of Indian Enterprises” during February 2021 to May 2021. The project was carried out at Confederation of Indian Industry (CII).

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 01-June-2021



Name: Namita Bahl  
(External Supervisor)  
Deputy Director  
Technology, Innovation and R&D  
Confederation of Indian Industry



Name: Dr. Jaya Vasudevan  
(Internal Supervisor)  
Associate Professor  
Department of Business and Sustainability  
TERI School of Advanced Studies



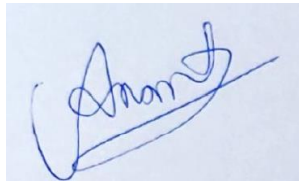
Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Pooja has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Business Administration in your stream on the topic “**Comprehensive Net Zero Organizational Framework**” during February 2021 to June 2021. The project was carried out at GAIL (India) Limited.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: July 05, 2021



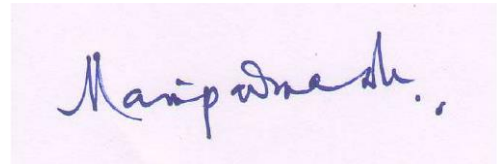
EXTERNAL SUPERVISOR

Mr. Anand Acharya

Senior Manager

Sustainable Development

GAIL (India) Limited



INTERNAL SUPERVISOR

Dr. Manipadma Datta

Professor and Head

Department of Business & Sustainability

TERI School of Advanced Studies

## CERTIFICATE

This is to certify that PUNEET TOKAS has carried out his major project in partial fulfilment of the requirement for the degree of Master of Business Administration in Business Sustainability on the topic "ANALYSIS AND CHALLENGES FACED BY E-VEHICLES IN KAKINADA, ANDHRA PRADESH" during Feb 2021 to June 2021. The project was carried out at the RTI International, New Delhi.

To the best of our knowledge the thesis embodies the original work of the candidate.

Date: 15<sup>th</sup> June 2021

Dr. Gaurav Bhatiani  
(External Supervisor)  
Director-Energy & Environment  
RTI International

Dr. Shikha Mittal Shrivastava  
(Internal Supervisor)  
Assistant Professor  
Department of Business & Sustainability  
TERI School of Advanced Studies  
New Delhi

Prof. Manipadma Datta  
Professor & Head  
Department of Business & Sustainability  
TERI School of Advanced Studies  
New Delhi

## CERTIFICATE

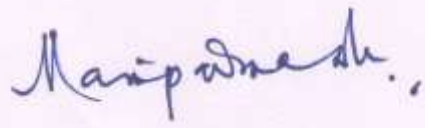
This is to certify that **RAJESH KUMAR** has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “**CIRCULARITY IN WASTE MANAGEMENT-A COMPREHENSIVE ANALYSIS FOR WASTE MINIMIZATION IN PLASTIC SECTOR**” during **JANUARY 2021 to JUNE 2021**. The project was carried out at **RECYKAL(Rapid Due Technologies Pvt Ltd.)**.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

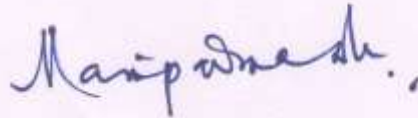
Date: 15th June, 2021



Name: AKASH GUPTA  
(External Supervisor)  
Designation: Senior Executive  
Organisation: Recykal



Name: Prof. Manipadma Datta  
(Internal Supervisor)  
Designation: Professor and Head  
Department of Business & Sustainability



**Prof. Manipadma Datta**  
**Professor & Head**  
**Department of Business and Sustainability**  
**TERI School of Advanced Studies**

---

*Certificate*

---

This is to certify that Reetika Passi has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Business Administration in your stream on the topic “Stakeholder Engagement and Communication” during January 2021 to June 2021. The project was carried out at Tata Consultancy Services.


The Dissertation embodies the original work of the candidate to the best of our knowledge.



**Signature of External Supervisor**

Mr. Joseph Sunil Nallapalli  
CSR Head - India

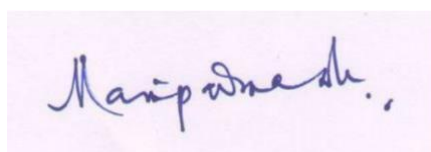
Tata Consultancy Services, Bangalore



**Signature of Internal Supervisor**

Ms. Jayati Talapatra  
Visiting Faculty

TERI SAS, New Delhi



**Signature of Head of Department**

Dr. Manipadma Datta  
Professor & Head  
TERI SAS, New Delhi



## CERTIFICATE

This is to certify that Shreya Kalra has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Business Administration (MBA) in Business Sustainability on the topic “Building A Low-Carbon and Circular Economy in the Beverage Packaging Industry: *A Comparative Study of Tetra Pak in India and Europe*” during February 2021 to May 2021. The project was carried out at Thinkthrough Consulting Pvt. Ltd. (TTC).

The Dissertation embodies the original work of the candidate to the best of our knowledge.

**Date:** 08 July 2021

Shantanu



Mr. Shantanu Srivastava  
(External Supervisor)  
Lead – Public Affairs and Policy Advocacy  
Thinkthrough Consulting Pvt. Ltd.

Shikha

Dr. Shikha Mittal Shrivastav  
(Internal Supervisor)  
Assistant Professor  
Department of Business & Sustainability  
TERI School of Advanced Studies

Manipadma Datta

Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that SIBIN KARTIK TIWARI has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “SWACHH BHARAT MISSION: OPEN DEFECATION FREE STATUS IN URBAN AREAS” during January 2021 to May 2021. The project was carried out at IQVIA.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

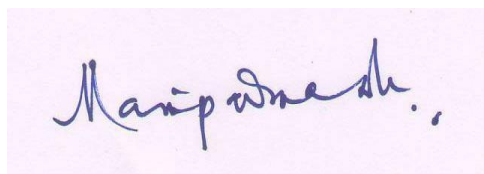
Date: 03/07/2021



Dr. Rahul Nigam  
Project Manager  
IQVIA



Dr. Shikha Mittal Shrivastav  
Assistant Professor  
Department of Business and Sustainability  
TERI School of Advanced Studies



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Siddhant Kumar has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “**COMPREHENSIVE STUDY OF ELECTRIC VEHICLE ECOSYSTEM IN INDIA**” during February 2021 to May 2021. The project was carried out at KPMG Advisory Services Private Limited.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 15/06/2021



Dr. Jaya Vasudevan  
(Internal Supervisor)  
Associate Professor  
Department of Business and Sustainability  
TERI School of Advanced Studies



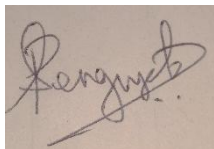
Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## CERTIFICATE

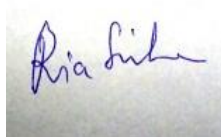
This is to certify that Vignesh Sivakumar has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Business Administration in your stream on the topic “Sustainability Strategy and Implementation of road map” during January 2021 to June 2021. The project was carried out at Thinkthrough consulting private limited.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

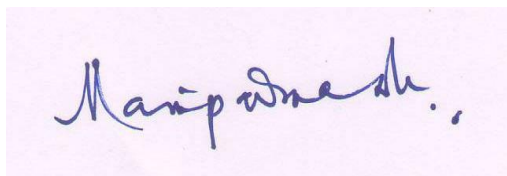
Date: 7<sup>th</sup> July 2021.



Mr. Prateek Sengupta  
(External Supervisor)  
Senior Manager  
Thinkthrough Consulting Pvt. Ltd.



Dr. Ria Sinha  
(Internal Supervisor)  
Professor  
Department of Business and  
Sustainability  
TERI School of Advanced Studies



Prof. Manipadma Datta  
Professor & Head  
Department of Business and Sustainability  
TERI School of Advanced Studies

## CERTIFICATE

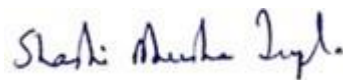
This is to certify that MS. ANSHULA SINGH has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Plant Biotechnology on the topic “INFERRING PATHOGEN PHYSIOLOGY AND CLINICAL IMPLICATIONS FROM META-ANALYSIS OF OMIC DATA” during January 2021 to June 2021. The project was carried out at the TERI School of Advanced Studies, Vasant Kunj, New Delhi.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 30-07-2021



Dr. Ramakrishnan Sitaraman  
(Internal and External Supervisor)  
Professor  
Department of Biotechnology  
TERI School of Advanced Studies



Dr. Shashi Bhushan Tripathi  
Head & Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that Ms Apurva Gangal has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Plant Biotechnology on the topic “Investigation of the potential applications of Hyaluronic Acid nanocomplexes” during February 2021 to May 2021. The project was carried out at Council of Scientific and Industrial Research- Institute of Genomics and Integrative Biology (CSIR-IGIB), Mathura Road.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

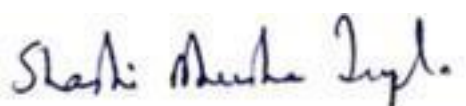
Date: 28/7/2021



Dr. Munia Ganguli  
(External Supervisor)  
Senior Principal Scientist Nanobiotechnology  
CSIR-IGIB



Dr. Shashi Bhushan Tripathi  
(Internal Supervisor)  
Head and Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies





Dr. Shashi Bhushan Tripathi  
Head and Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies

### CERTIFICATE

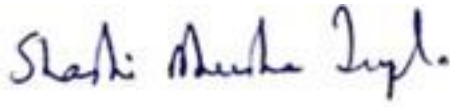
This is to certify that MS. LIMMALA PRANATHI has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Plant Biotechnology on the topic “RNA- SEQ DATA ANALYSIS OF EMBRYONIC STAGES OF BUFFALO GENOME IN CLONED AND IVF INDIVIDUALS” during January 2021 to May 2021. The project was carried out at National Institute of Plant Genome Research (NIPGR), New Delhi.


The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 28/07/2021

  
  
डॉ. शैलेश कुमार, कर्नाठी  
Dr. Shailesh Kumar, PhD  
स्टाफ साइंटिस्ट-III  
Staff Scientist-III  
राष्ट्रीय पौधे जीन अनुसंधान संस्थान  
National Institute of Plant Genome Research  
एनएचएलएल, नई दिल्ली-110067

Dr. Shailesh Kumar  
(External Supervisor)  
Staff Scientist- III  
NIPGR

  
Dr. Shashi Bhushan Tripathi  
(Internal Supervisor)  
Head & Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies

  
Dr. Shashi Bhushan Tripathi  
Head and Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies

## CERTIFICATE

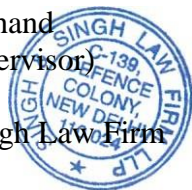
This is to certify that Ms. MANSI BANSAL has carried out her major project in partial fulfillment of the requirement for the degree of Master of Science in Plant Biotechnology on the topic “BIOTECHNOLOGICAL PATENTS PERTAINING TO GENES – INDIAN SCENARIO ” during February 2021 to April 2021. The project was carried out at the Singh & Singh Law Firm, New Delhi.

The Dissertation embodies the original work of the candidate to the best of our knowledge.


Date: 30<sup>th</sup> July 2021



Mr. Kuldip Chand  
(External Supervisor)  
Secretary  
Singh and Singh Law Firm



Dr. Vidhi Madaan Chadda  
(Internal Supervisor)  
Associate Professor  
Department of Legal Studies  
TERI University New Delhi



Dr. Shashi Bhushan Tripathi  
Head and Associate Professor  
Department of Biotechnology  
TERI University  
New Delhi

Head  
Department of Biotechnology  
TERI School of Advanced Studies  
10, Institutional Area, Vasant Kunj  
New Delhi-110 070

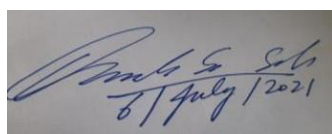


## CERTIFICATE

This is to certify that Richa Virmani has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Plant Biotechnology on the topic 'ISOLATION AND CHARACTERIZATION OF PROXIMAL PROMOTERS OF *MIR160* ACROSS *BRASSICA* SPECIES' during February 2021 to May 2021. The project was carried out at TERI School of Advanced Studies, Vasant Kunj, New Delhi.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 29/7/2021

Handwritten signature of Dr. Anandita Singh in blue ink, with the date 29/July/2021 written below it.

Dr. Anandita Singh  
(External & Internal Supervisor)  
Professor  
Department of Biotechnology  
TERI School of Advanced Studies  
New Delhi, 110070

Handwritten signature of Dr. Shashi Bhushan Tripathi in blue ink.

Dr. Shashi Bhushan Tripathi  
Head and Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies  
New Delhi, 110070

## CERTIFICATE

This is to certify that **Rishika Chatterjee** has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Plant Biotechnology on the topic “**Analysis into evolutionary conservation and validation of targets of miR408 in rice**” during February 2021 to June 2021. The project was carried out at Department of Plant Molecular Biology, University of Delhi, South Campus.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

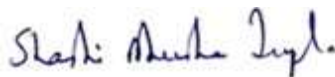
Date: 30 July 2021



Dr. Saurabh Raghuvanshi  
(External Supervisor)  
Professor  
Department of Plant Molecular  
Biology  
University of Delhi, South Campus



Prof. Anandita Singh  
(Internal Supervisor)  
Professor  
Department of Biotechnology  
TERI School of Advanced Studies



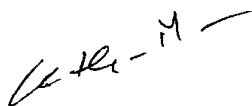
Dr. Shashi Bhushan Tripathi  
Head and Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that MS. SHUBHANGI SINGH has carried out her major project in partial fulfillment of the requirement for the degree of Master of (Science) in Plant Biotechnology on the topic “MOLECULAR ANALYSES OF THE CDH (CDP-DIACYLGLYCEROL PYROPHOSPHATASE) OF *HELICOBACTER PYLORI*” during February 2021 to June 2021. The project was carried out at the Structural and Molecular Biology Laboratory (SMBL), Department of Biotechnology (DBT), TERI- School of Advanced Studies (TERI SAS), New Delhi.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: July 30, 2021



Dr. Chaithanya Madhurantakam  
(Internal and External Supervisor)  
Associate Professor & Ramalingaswami fellow  
TERI- School of Advanced Studies  
New Delhi



Dr. Shashi Bhushan Tripathi  
Head and Associate Professor  
Department of Biotechnology  
TERI- School of Advanced Studies  
New Delhi

## CERTIFICATE

This is to certify that Ms. SONAL GHILDIYAL has carried out her major project in partial fulfilment of the requirement for the degree of Master of Science in Plant Biotechnology on the topic “PROTECTION OF TRADITIONAL KNOWLEDGE IN INDIA: AN ANALYSIS WITH SPECIAL REFERENCE TO REGIME FOR BIO-PIRACY” during February 2021 to April, 2021. The project was carried out at the SINGH & SINGH LAW FIRM LLP.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

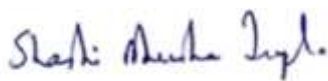
Date: 29-07-2021



Mr. Kuldip Chand  
(External Supervisor)  
(Secretary)  
Singh & Singh Law Firm LLP  
New Delhi



Dr. Vidhi Madaan Chadda  
(Internal Supervisor)  
Assistant Professor  
TERI School of Advanced Studies  
New Delhi



Dr. Shashi Bhushan Tripathi  
Head & Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies  
New Delhi

## CERTIFICATE

This is to certify that **Tanya Lahoriya** has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Plant Biotechnology on the topic “**Studies on *in vitro* shoot multiplication, DNA extraction and quantification in *Bambusa vulgaris* (var. green)**” during February 2021 to May 2021. The project was carried out at the Tropical Forest Research Institute (T.F.R.I.), Jabalpur, M.P.

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 28/7/2021



Dr. Fatima Shirin  
(External Supervisor)  
Scientist-G & Head,  
Tropical Forest Research Institute,  
Jabalpur, M.P.



Dr. Shashi Bhushan Tripathi  
(Internal Supervisor)  
Head and Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies



Dr. Shashi Bhushan Tripathi  
Head and Associate Professor  
Department of Biotechnology  
TERI School of Advanced Studies

## CERTIFICATE

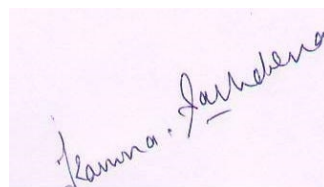
This is to certify that ASHWINI SARODE has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in CLIMATE SCIENCE AND POLICY on the topic “CLIMATE CHANGE RISK AND VULNERABILITIES IN THE GLOBAL SOUTH AND ITS IMPACT ON THE TRANSPORT INFRASTRUCTURE” during February 2021 to June 2021. The project was carried out at the TERI School of Advanced Studies.

This dissertation embodies the original work of the candidate to the best of our knowledge.

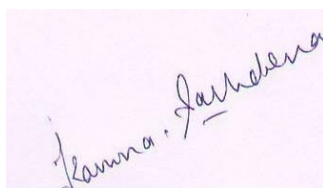
Date: 04/07/2021



Dr. Deepty Jain  
Assistant Professor  
Dept. of Energy & Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor & HOD  
Dept. of Energy & Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that BARASHA BARUAH has carried out her major project in partial fulfillment of the requirement for the degree of Master of Science in CLIMATE SCIENCE AND POLICY on the topic “CLIMATE RISK ASSESSMENT FOR SUB-HIMALAYAN GRASSLAND” during February 2021 to June 2021. The project was carried out at Aaranyak, under Pygmy Hog Conservation Programme.

This dissertation embodies the original work of the candidate to the best of our knowledge.

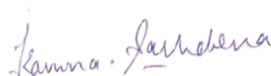
Date: 28-06-2021



Dr Chubamenla Jamir  
Department of Energy and  
Environment  
TERI School of Advanced  
Studies



Dr Dhritiman Das  
Pygmy Hog Conservation  
Programme, TSRP  
Aaranyak



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that **Garima Singh** has carried out her major project in partial fulfilment of the requirement for the Degree of Master of 2021 in Climate science and Policy on the topic of **Recovery of biogas in ETP of a distillery and calculating its carbon footprint- from Greenhouse to Green energy** during January 2021 to June 2021. The project was carried out at the **JM EnviroNet Pvt. Ltd.**

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 5<sup>th</sup> July 2021



External Supervisor

Dr Jitendra Yadav

JM EnviroNet Primate Limited




Internal Supervisor

Dr. Chander Kumar Singh

Department of Energy and Environment

TERI School of Advanced Studies



Dr Kamna Sachdeva

Associate Professor and Head of the Department

Department of Energy and Environment

TERI School of Advanced Studies



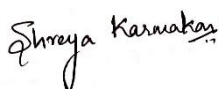
## CERTIFICATE

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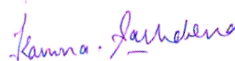
This is to certify that **ILMA AFZAL** has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in **Climate Science and Policy** on the topic ‘**AIR POLLUTION AND VARYING SOCIO-ECONOMIC FACTORS AFFECTING HUMAN HEALTH – A PERCEPTION BASED STUDY IN URBAN SLUM REGION OF KOLKATA**’ during February 2021 to June 2021. The project was carried out at the **SWITCH ON FOUNDATION- Environment Conservation Society Kolkata**.

This dissertation embodies the original work of the candidate to the best of our knowledge.

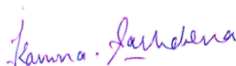
Date: 4 July, 2021



**Ms. Shreya Karmakar**  
Senior Project Manager  
Environment and Climate Change  
SWITCH ON Foundation at ECS Kolkata



**Dr. Kamna Sachdeva**  
Associate Professor and  
Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies



**Dr Kamna Sachdeva**  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that Jyoti Bhati has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Climate Science and Policy on the topic “ANALYSIS OF PLASTIC WASTE RECYCLING AND ITS SCENARIO AMID COVID-19 PANDEMIC” during February 2021 to June 2021. The project was carried out at the J.M. EnviroNet Pvt. Ltd.

This dissertation embodies the original work of the candidate to the best of our knowledge.

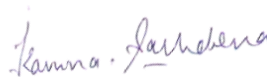
Date: 5<sup>th</sup> July, 2021



Dr. Prateek Sharma  
Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Jitendra Yadav  
Associate Director  
J.M. EnviroNet Pvt. Ltd.



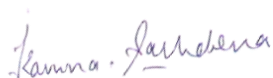
Dr. Kamna Sachdeva  
Associate Professor and Head of the  
Department  
Department of Energy and  
Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Ketan Babruwan Gomsale has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Climate Science and Policy on the topic “Built Environment Strategies to Improve Air Quality Levels in Delhi, India” during February 2021 to June 2021. The project was carried out at the TERI SAS.

This dissertation embodies the original work of the candidate to the best of our knowledge.

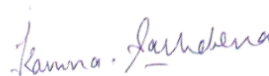
Date: 04/07/2021



Dr Kamna Sachdeva  
Associate Professor  
Department of Energy  
and Environment TERI  
SAS



Dr Deepty Jain  
Assistant Professor,  
Department of Energy and  
Environment  
TERI SAS



Dr Kamna Sachdeva  
Associate Professor and  
Head of the Department,  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that KISHALAY DAS has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Climate Science and Policy on the topic “**SITUATIONAL ANALYSIS AND SCOPING STUDY FOR PREPARATION OF DETAIL PROJECT REPORT AND BUSINESS PLAN FOR FARMER PRODUCER ORGANIZATIONS**” during February 2021 to June 2021. The project was carried out at the CTRAN CONSULTING LTD., under the guidance of Mr. Ashok Patnaik.

This dissertation embodies the original work of the candidate to the best of our knowledge.



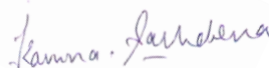
Mr. Ashok Patnaik Associate  
Vice President  
CTRAN Consulting Ltd.  
Bhubaneswar  
Odisha



Internal Supervisor

Dr. Chubamenla Jamir  
Assistant Professor  
Department of Energy and Environment

Date: 15.06.2021



Dr Kamna Sachdeva  
Associate Professor and Head of the  
Department Department of Energy  
and Environment  
TERI School of Advanced Studies

# CERTIFICATE

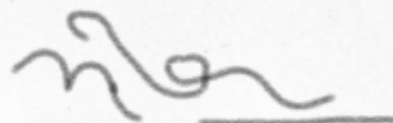
This is to certify that Ms. Kritika Chauhan has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Climate Science and Policy on the topic 'Understanding Risks and Opportunities due to Climate Change for PATA Petrochemical Plant of GAIL (India) Limited' during February 2021 to June 2021. The project was carried out at the Organization GAIL (India) Limited.

This dissertation embodies the original work of the candidate to the best of our knowledge.

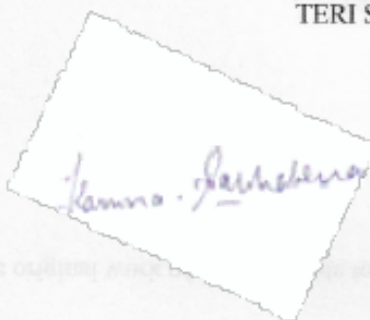
Date: 2nd July, 2021



Mr. Anand Acharya  
Senior Manager  
Sustainability Department  
GAIL (India) Limited



Manish Kumar Shrivastava  
Assistant Prof. and Program Coordinator  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that NEHA SHAMPRASAD PUJAR has carried out her major project in partial fulfilment of the requirement for the Degree of Master of SCIENCE in CLIMATE SCIENCE AND POLICY on the topic “CORPORATE REPORTING AND FEDERAL POLICY TO STREAMLINE ENVIRONMENTAL DISCLOSURES: AN EXTENSIVE STUDY FOR THE MANUFACTURING AND ENERGY INDUSTRIES IN INDIA” during February 2021 to June 2021. The project was carried out at AICL COMMUNICATIONS LIMITED.

This dissertation embodies the original work of the candidate to the best of our knowledge

Date: 2021-06-30

*Akhil Anilkumar*

K. Akhil Anilkumar  
Vice President, Corporate Reporting  
AICL Communications Limited

Manish Kumar  
Shrivastava

Digitally signed by Manish Kumar Shrivastava  
DN: cn=Manish Kumar Shrivastava, o=TERI SAS, ou, email=manish.shrivastava@teras.ac.in, c=IN  
Date: 2021.07.04 05:57:34 +05'30'

Dr. Manish Kumar Shrivastava  
Assistant Professor  
Dept. of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that Sakshi Rajabhoj has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Climate Science and Policy on the topic “Changing Aerosol Loading Over Central India and Its Relationship to Fire Emission and Prevailing Meteorology” during February 2021 to July 2021. The project was carried out at IIT Bhubaneswar.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 3<sup>rd</sup> July 2021

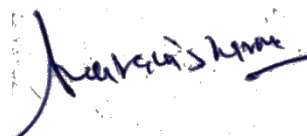


Dr. Vinoj V.

Assistant Professor

School of Earth, Ocean and  
Climate Sciences

Indian Institute of Technology  
Bhubaneswar



Dr. Anu Rani Sharma

Assistant Professor

Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva

Associate Professor and Head of the  
Department

Department of Energy and  
Environment

TERI School of Advanced Studies

## CERTIFICATE


This is to certify that SAYANI KHARA has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in CLIMATE SCIENCE AND POLICY on the topic SUSTAINABILITY OF SOLID WASTE MANAGEMENT IN INDIA AND ITS EFFECT ON CLIMATE CHANGE during February 2021 to June 2021. The project was carried out at the IQVIA, New Delhi

This dissertation embodies the original work of the candidate to the best of our knowledge.

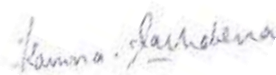
Date: 6<sup>th</sup> July 2021



Dr. Chander Kumar Singh  
Department of Energy and Environment

  
Upasana Khosla  
Consultant  
IQVIA-PH

External Supervisor  
IQVIA, New Delhi  
Consultant



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## CERTIFICATE

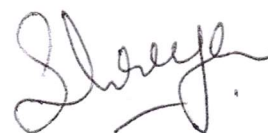
This is to certify that SHIVANGI SETH has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in CLIMATE SCIENCE AND POLICY on the topic **SCOPE FOR CARBON MITIGATION BENEFITS AND CHALLENGES FOR ELECTRIC VEHICLES IN INDIA** during February 2021 to July 2021. The project was carried out at EARTHOOD SERVICES PRIVATE LIMITED, Gurgaon, India.

This dissertation embodies the original work of the candidate to the best of our knowledge.

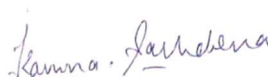
Date: July 4, 2021



Dr. Manish Kumar Srivastava (Internal  
Supervisor)  
Department of Energy and Environment  
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Ms. Shreya Garg (External  
Supervisor)  
Department of Climate Change  
Earthood Services Private Limited



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
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## CERTIFICATE

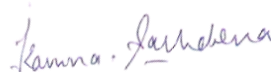
This is to certify that VANSHIKA RATHI has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in CLIMATE SCIENCE & POLICY on the topic BUILT ENVIRONMENT BASED AIR QUALITY MANAGEMENT IN DELHI during February 2021 to June 2021. The project was carried out at the TERI School of Advanced Studies.

This dissertation embodies the original work of the candidate to the best of our knowledge.

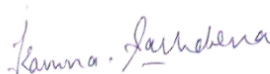
Date: 4th July 2021



Dr. Deepty Jain  
(External supervisor)  
Department of Energy  
& Environment  
TERI School of  
Advanced Studies



Dr. Kamna Sachdeva  
Department of Energy & Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that Zeynep Hakan has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Climate Science and Policy on the topic ‘Climate Change Benefits of Biogas Production in the Mechanical Biological Treatment Plant of Burdur Province Integrated Solid Waste Landfill and Disposal Facility’ during February 2021 to June 2021. The project was carried out at the PLAZMA MACHINERY ENGINEERING LTD. CO. (PLAZMA MAKİNE MÜHENDİSLİK İNŞ. TAAH. GIDA SAN. VE TİC. LTD. ŞTİ.)

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 28 June 2021



Mr. Fatih Gedik  
Manager  
PLAZMA MACHINERY  
ENGINEERING LTD. CO.

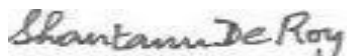
Dr Kamna Sachdeva  
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the Department  
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TERI School of Advanced Studies

Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Anoushka Chauhan** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic - **“Identifying the Institutional Bottlenecks in the Formation of Honey Cooperatives in India”** during August 2020 - June 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr Shantanu De Roy

Assistant Professor

Department of Policy Studies

TERI School of Advanced Studies

Date: 6<sup>th</sup> July 2021



**Signature of Thesis Coordinator**

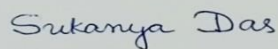
Dr Nandan Nawn

Associate Professor

Department of Policy Studies

TERI School of Advanced Studies

Date: 6<sup>th</sup> July 2021



**Signature of Head of Department**

Dr. Sukanya Das

Associate Professor

Department of Policy Studies

TERI School of Advanced Studies

Date: July 6, 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Anshika Singh** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic --- **“Cost of Self- Protection Against Air Pollution: A Comparative Study in New Delhi with respect to WTP”** during **August 2020 – June 2021.**

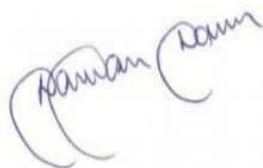
The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr. Shantanu De Roy  
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Plot 10, Institutional Area, Vasant Kunj  
New Delhi 110070

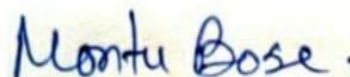
Date: July 6, 2021



**Signature of Thesis Coordinator**

Dr. Nandan Nawn  
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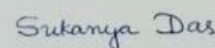
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**Signature of Co-Supervisor**

Dr. Montu Bose  
Assistant Professor  
Department of Business and Sustainability  
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New Delhi 110070

Date: July 6, 2021



**Signature of Head of Department**

Dr. Sukanya Das  
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Department of Policy Studies  
TERI School of Advanced Studies  
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New Delhi 110070

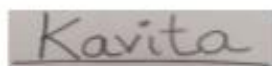
Date: July 6, 2021

---

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Anushka Saxena** has carried out a Master's Thesis in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic '**Impact of Tetra Pak Extended Producer Responsibility towards the Recycling Behavior of Consumers**' during **August 2020 – June 2021**.

The report embodies original work to the best of our knowledge.



**Signature of Internal Supervisor**

Dr Kavita Sardana  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi- 110070

Date: July 6,2021



**Signature of Thesis Coordinator**

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Date: July 6, 2021



**Signature of Head of Department**

Dr Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi- 110070

Date: July 6,2021

### **Certificate for Supervisor(s) and the Head**

This is to certify that **Mr. Ashruth Talwar** has completed a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic — **“The Role of Unpaid Care Work in Determining Time in SNA Production Activities.”** during **August 2020 and June 2021**. The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Supervisor**

Dr. Shantanu De Roy  
Assistant Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
Vasant Kunj New Delhi-110070

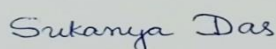
Date: 6<sup>th</sup> July 2021



**Signature of Thesis Coordinator**

Dr. Nandan Nawn  
Associate Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area,  
New Delhi-110070

Date: 6<sup>th</sup> July 2021



**Signature of Head of Department**

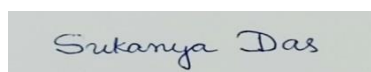
Dr. Sukanya Das  
Associate Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi-110070

Date: 6<sup>th</sup> July 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Diljot Kaur** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic — **“Households’ perceptions regarding choice of policy instruments to reduce household solid waste generated in Delhi”** during **August 2020— June 2021**.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor and  
Head of Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi 110070

Date: July 6, 2021



**Signature of Thesis Coordinator**

Dr. Nandan Nawn  
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Department of Policy Studies,  
TERI School of Advanced Studies  
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New Delhi 110070

Date: July 6, 2021



**Certificate for Supervisor(s) and the Head**

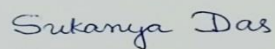
This is to certify that Ms. Gursparsh Kaur has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic — **“The Economic and Employment Impact of Ecological Restoration: A Case Study of Chilika Lake”** during August 2020— June 2021. The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor  
& Thesis Coordinator**

Dr. Nandan Nawn  
Associate Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi 110070

Date: 6th July



**Signature of Head of Department**

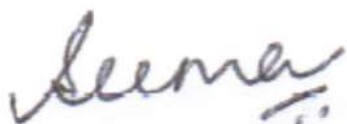
Dr. Sukanya Das  
Associate Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi 110070

Date: 6<sup>th</sup> July

### Certificate

This is to certify that **Ms. Harmeen Kaur** has carried out a Master's Thesis, in partial fulfilment of requirements for the degree of M.Sc. Economics on the topic "***COVID-19 Pandemic and Access to Education in Slums of Delhi: Role of Digital Literacy and Gender Inequality***" during **August 2020 – June 2021**.

This report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr Seema Sangita  
Assistant Professor  
Delhi School of Economics  
New Delhi – 110007

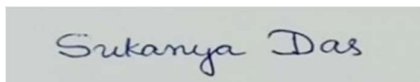


**Signature of Thesis Coordinator**

Dr Nandan Nawn  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies

Date: 6<sup>th</sup> July 2021

Date: 6<sup>th</sup> July 2021



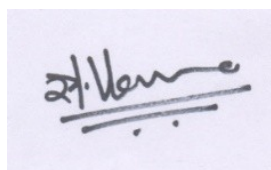
**Signature of Head of Department**

Dr Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
6<sup>th</sup> July 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Kasvi Singh** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic “*Covid-19 in Delhi: Human Health Cost Perspective*” during **August 2020— June 2021**.

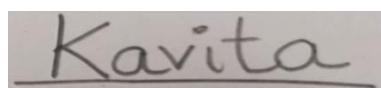
The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of External Supervisor**

Dr. Madhu Verma  
Chief Economist  
World Resources Institute (WRI) India,  
LGF AADI 2,  
Balbir Saxena Marg, Hauz Khas,  
New Delhi 110016

Date: July 6, 2021



**Signature of Internal Supervisor**

Dr. Kavita Sardana  
Assistant Professor,  
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New Delhi 110070

Date: July 6, 2021



**Signature of Thesis Coordinator**

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Associate Professor,  
Department of Policy Studies,  
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Date: July 6, 2021



**Signature of Head of Department**

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Associate Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies  
10 Institutional Area, Vasant Kunj  
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Date: July 6, 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Komal Juneja** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic **Comparing the methodologies of selected natural capital components of various wealth accounting protocols during August 2020— June 2021.**

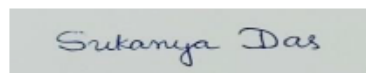
The report embodies the original work of the candidate, to the best of our knowledge.



Signature of Internal Supervisor &  
Thesis Coordinator

Dr. Nandan Nawn  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
10 Institutional Area, Vasant Kunj,  
New Delhi -110070

Date: July 6, 2021



Signature of Head of Department

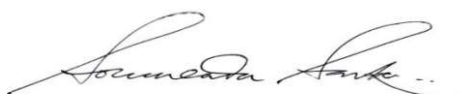
Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
10 Institutional Area, Vasant Kunj,  
New Delhi -110070

Date: July 6, 2021

### Certificate

This is to certify that **Mr. Kunwarpreet Singh** has carried out a Master's Thesis, in partial fulfilment of requirements for the degree of M.Sc. Economics on the topic ***“Preference for Collaborative Consumption in Delhi NCR: The Case of Transportation”*** during **August 2020 – June 2021**.

This report embodies the original work of the candidate, to the best of our knowledge.



**Signature of External Supervisor**

Dr Soumendu Sarkar

Assistant Professor

Delhi School of Economics

New Delhi – 110007

Date: 6<sup>th</sup> July 2021



**Signature of Internal Supervisor**

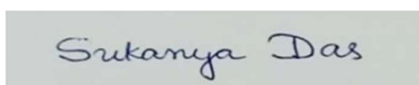
Dr Nandan Nawn

Associate Professor

Department of Policy Studies

TERI School of Advanced Studies

Date: 6<sup>th</sup> July 2021



**Signature of Head of Department**

Dr Sukanya Das

Associate Professor

Department of Policy Studies

TERI School of Advanced Studies

6<sup>th</sup> July 2021

**Certificate for Supervisor(s) and the Head**


This is to certify that **Ms. Manpreet Kaur Suri** has carried out a Master's Thesis, in partial fulfilment of requirements for the degree of M.Sc. Economics on the topic — **“Impact of BRPL air-conditioner replacement scheme on residential electricity consumption” during August 2020— June 2021**

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr Gopal K Sarangi  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi – 110070  
Date: 6<sup>th</sup> July 2021



**Signature of External Supervisor**

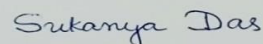
Dr Soumendu Sarkar  
Assistant Professor  
Delhi School of Economics  
University Enclave  
Delhi - 110007

Date: 6<sup>th</sup> July 2021



**Signature of Thesis Coordinator**

Dr Nandan Nawn  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area,  
Vasant Kunj, New Delhi – 110070  
Date: 6<sup>th</sup> July 2021

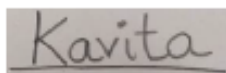


**Signature of Head of Department**

Dr Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area,  
Vasant Kunj New Delhi 110070  
Date: 6<sup>th</sup> July 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that Ms. Nayanika Pande has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic — "Impact of risk perception on tourist visits – Evidence from Pithoragarh, Uttarakhand" during August 2020— June 2021. The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr. Kavita Sardana  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi 110070

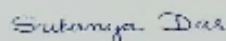
Date: 6<sup>th</sup> July 2021



**Signature of Thesis Coordinator**

Dr. Nandan Nawn  
Associate Professor  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi-110070

Date: 6<sup>th</sup> July 2021



**Signature of Head of Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi-110070

Date: 6<sup>th</sup> July 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Nupur Ahuja** has carried out a Master's Thesis, in partial fulfilment of requirements for the degree of M.Sc. Economics on the topic “**Locating barriers in solar panel manufacturing in India: Nature, Type and Scope**” during **August 2020 — June 2021**.

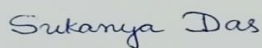
The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor & Thesis Coordinator**

Dr. Nandan Nawn  
Associate Professor  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj New Delhi -110070

Date: July 6, 2021



**Signature of Head of Department**

Dr. Sukanya Das  
Associate Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj New Delhi -110070

Date: July 6, 2021



**Certificate for Supervisor(s) and the Head**

This is to certify that **Mr. Omjee Shukla** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic ---**“Electric Vehicle adoption: An analysis based upon Charging Infrastructure”** during **August 2020—June 2021**.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of External Supervisor**

Dr. Soumendu Sarkar  
Assistant Professor  
Delhi School of Economics  
New Delhi- 110007

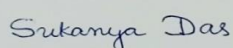
Date: 6<sup>th</sup> July 2021



**Signature of Internal Supervisor and Thesis Coordinator**

Dr. Nandan Nawn  
Associate Professor  
Department of Policy Studies  
TERI School of advanced Studies  
Plot 10, Institutional Areas, Vasant Kunj  
New Delhi-110070

Date: 6<sup>th</sup> July 2021



**Signature of Head of Department**

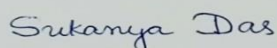
Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi-110070

Date: 6<sup>th</sup> July 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Ritika Goenka** has carried out a master's Thesis, in partial fulfilment of requirements for the degree of M.Sc. Economics on the topic — **“Material Well-being or Quality of life: The case of Talcher coal region”** during **August 2020— June 2021**.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor  
And Head of the Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi 110007

August 2020 – June 2021

**Signature of External Supervisor**

Dr. Indrani Roy Chowdhary  
Associate Professor  
Centre for study of Regional Development  
Jawaharlal Nehru University New Delhi  
New Mehrauli Road, New Delhi 110067

August 2020 – June 2021



**Signature of Thesis Coordinator**

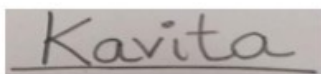
Dr. Nandan Nawn  
Assistant Professor,  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi- 110070

August 2020 – June 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Shivani Srivastava** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic **Valuing Recreation in Lodhi Garden using Crowdsourced Travel Cost Method** during **August 2020— June 2021**.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr. Kavita Sardana  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi-110070

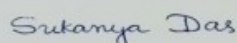
Date: 6<sup>th</sup> July 2021



**Signature of Thesis Coordinator**

Dr. Nandan Nawn  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi-110070

Date: 6<sup>th</sup> July 2021



**Signature of Head of Department**

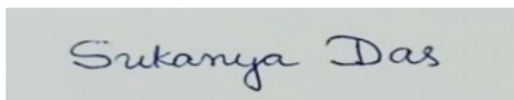
Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Plot 10, Institutional Area, Vasant Kunj  
New Delhi-110070

Date: 6<sup>th</sup> July 2021

### Certificate

This is to certify that **Simran Kapoor** has carried out a Master's Thesis, in partial fulfilment of requirements for the degree of M.Sc. Economics on the topic "**Access to Improved Drinking Water: A Study Based on Rural Households of Boudh**" during **August 2020 – June 2021**.

This report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor &  
Head of Department**

Dr. Sukanya Das  
Associate Professor  
Department of Policy Studies  
Date: 6<sup>th</sup> July 2021




**Signature of Thesis Coordinator**

Dr. Nandan Nawn  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
Date: 6<sup>th</sup> July 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Ms. Sukhmani Kaur Toor** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic **Factors Affecting India's International Virtual Water Trade in Agriculture** during **August 2020— June 2021**.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr. Seema Sangita

Assistant Professor

Department of Policy Studies

TERI School of Advanced Studies

Plot 10, Institutional Area, Vasant Kunj

New Delhi 110070

Date: 6<sup>th</sup> July 2021



**Signature of Thesis Coordinator**

Dr. Nandan Nawn

Associate Professor

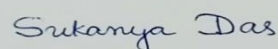
Department of Policy Studies,

TERI School of Advanced Studies

Plot 10, Institutional Area, Vasant Kunj

New Delhi-110070

Date: 6<sup>th</sup> July 2021



**Signature of Head of Department**

Dr. Sukanya Das

Associate Professor

Department of Policy Studies,

TERI School of Advanced Studies

Plot 10, Institutional Area, Vasant Kunj

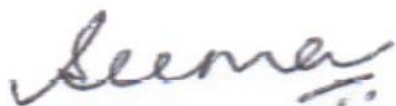
New Delhi-110070

Date: 6<sup>th</sup> July 2021

### CERTIFICATE FOR SUPERVISOR(S) AND THE HEAD

This is to certify that -**Swosti Subhrajyoti Sahoo** has carried out a Master's Thesis, in partial fulfilment of requirements for the degree of M.Sc. Economics on the topic – *Cyclone and Resilience – Case of Puri District and Cyclone 'Fani'* during August 2020—June 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr Seema Sangita  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
10 Institutional Area, Vasant Kunj  
New Delhi - 110 070

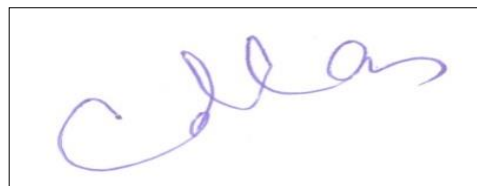
Date – 6<sup>th</sup> July 2021



**Signature of Thesis Coordinator**

Dr Nandan Nawn  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
10 Institutional Area, Vasant Kunj  
New Delhi - 110 070

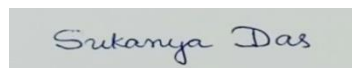
Date – 6<sup>th</sup> July 2021



**Signature of External Supervisor**

Dr Saudamini Das  
NABARD Chair Professor  
Institute of Economic Growth  
University of Delhi  
Delhi – 110 007

Date – 2<sup>nd</sup> July 2021



**Signature of Head of Department**

Dr Sukanya Das  
Associate Professor  
Department of Policy Studies  
TERI School of Advanced Studies  
10 Institutional Area, Vasant Kunj  
New Delhi – 110 070

Date – 6<sup>th</sup> July 2021

**Certificate for Supervisor(s) and the Head**

This is to certify that **Mr. Tarun Mehta** has carried out a Master's Thesis, in partial fulfilment of requirements for the degree of M.Sc. Economics on the topic – '**Cross Subsidies in Electricity Supply: Impact of Reforms and Politics**' during August 2020— June 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor**

Dr. Gopal Sarangi  
Assistant Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies.  
Plot 10, Vasant Kunj Institutional Area,  
New Delhi 110070.

**Date:** 6<sup>th</sup> July 2021



**Signature of External (Co)supervisor**

Dr. Soumendu Sarkar  
Assistant Professor,  
Department of Economics,  
Delhi School of Economics.  
University of Delhi,  
New Delhi 110007.

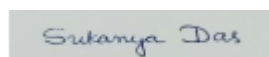
**Date:** 6<sup>th</sup> July 2021.



**Signature of Thesis Coordinator**

Dr. Nandan Nawn  
Associate Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies.  
Plot 10, Vasant Kunj Institutional Area,  
New Delhi-110070.

**Date:** 6<sup>th</sup> July 2021



**Signature of Head of Department**

Dr. Sukanya Das  
Associate Professor,  
Department of Policy Studies,  
TERI School of Advanced Studies  
Plot 10, Vasant Kunj Institutional Area  
New Delhi-110070.

**Date:** 6<sup>th</sup> July 2021.

## CERTIFICATE

This is to certify that **Thanancheyan Devendran** has carried out a Master's Thesis, in partial fulfillment of requirements for the degree of M.Sc. Economics on the topic ---**“Analyzing the Compensating Wage Differential for occupational hazards of Ragpickers in Chennai city”** during **August 2020—June 2021**.

This report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor  
& Head of the Department**

Dr. Sukanya Das  
Associate Professor,  
Department of Policy Studies  
TERI School of advanced Studies  
Plot 10, Institutional Area, Vasant  
Kunj  
New Delhi-110070

Date: 6<sup>th</sup> July 2021



**Signature of Thesis Coordinator**

Dr. Nandan Nawn  
Associate Professor,  
Department of Policy Studies  
TERI School of advanced Studies  
Plot 10, Institutional Area, Vasant  
Kunj  
New Delhi- 110070

Date: 6<sup>th</sup> July 2021



**Certificate for Supervisor(s) and the Head**

This is to certify that Ms. Vibhuti Chitkara has carried out a Master's Thesis, in partial fulfilment of requirement for the degree of M. Sc. Economics on the topic – “Analysing the Impact of Construction of Metro Rail in Neighbourhood Surroundings” during August 2020 – June 2021.

The report embodies the original work of the candidate, to the best of our knowledge.



**Signature of Internal Supervisor &  
Head of Department**

Dr. Sukanya Das

Associate Professor

Department of Policy Studies,

TERI School of Advanced Studies

Plot 10, Institutional Area, Vasant Kunj

New Delhi- 110070

Date: July 6, 2021



**Signature of Thesis Coordinator**

Dr. Nandan Nawn

Associate Professor

Department of Policy Studies,

TERI School of Advanced Studies

Plot 10, Institutional Area, Vasant Kunj

New Delhi -110070

Date: July 6, 2021

## CERTIFICATE

This is to certify that ADITI GOEL has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “CARBON CAPTURE, UTILIZATION, AND STORAGE (CCUS) INNOVATION LANDSCAPE’ during February 2021 to July 2021. The project was carried out at IHS Markit, Gurgaon.

This dissertation embodies the original work of the candidate to the best of our knowledge.

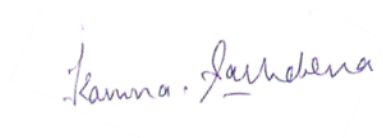
Date: July 6, 2021



Dr Gopal K Sarangi  
Assistant Professor  
Department of Policy Studies  
TERI School of Advanced Studies



Mr. Judson Jacobs  
Managing Director  
Upstream  
IHS Markit



Dr Kamna Sachdeva  
Associate Professor & Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that AKANKSHA BHOSALE has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in ENVIRONMENTAL STUDIES AND RESOURCE MANAGEMENT on the topic EVALUATING WATERSCAPE COMPATIBILITY AND COMMUNITY ATTRIBUTES FOR PROMOTING AQUACULTURE AS SUSTAINABLE LIVELIHOOD INTERVENTION IN VILLAGES OF GOA during February 2021 to June 2021. The project was carried out at the Goa State Biodiversity Board.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 06/07/2021



Dr. Manoj R. Borkar  
Associate Professor  
Head of Department,  
Department of Zoology,  
Carmel College of Arts, Science  
& Commerce for Women,



Dr. Sudipto Chatterjee  
Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

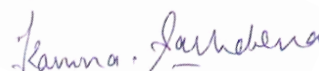
This is to certify that Akansha Sharma has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Environmental Studies and Resource Management on the topic “Role of supply chain management in sustainable development of small holder farmers of Uttarkashi, Uttarakhand” during 15 January 2021 to 14 May 2021. The project was carried out at the office of Honorable Minister of Jal Shakti, GOI.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

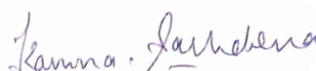
Date: 01-07-2021



Name: Saurav Panda  
(External Supervisor)  
Research and Communication Officer  
Ministry of Jal Shakti



Name: Dr. Kamna Sachdeva  
(Internal Supervisor)  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor & Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Akshat Shrivastava has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic 'STATUS AND DISTRIBUTION OF SARUS CRANE (*GRUS ANTIGONE*) IN AND AROUND BHOJ WETLAND, MADHYA PRADESH during Feb 2021 to June 2021. The project was carried out at SMEW Ecological Solutions Pvt. Ltd. Bhopal, Madhya Pradesh, India.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 5<sup>th</sup> July 2021



Amit Kumar  
Director  
SMEW Ecological  
Solutions Pvt. Ltd.  
Delhi, India.



Dr. Sudipta Chatterjee  
Associate Professor  
Department of Natural Resources,  
TERISAS, New Delhi, India.



Dr. Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that C.Pavithra has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic **Tracking & Analysis of Climate Finance: Understanding its key issues and trends** during February 2021 to June 2021. The project was carried out at the Observer Research Foundation.

This dissertation embodies the original work of the candidate to the best of our knowledge.

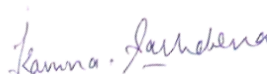
Date: 23/06/21



Ms. Nandini Sarma  
Economy and Growth  
Programme,  
Observer Research  
Foundation



Dr. Chubamenla Jamir  
Department of Energy  
and Environment  
Teri School of  
Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the  
Department Department of Energy and  
Environment  
TERI School of Advanced Studies

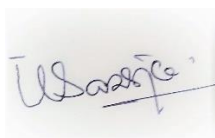
CERTIFICATE:

This is to certify that Chaandi Malhotra has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Master's in Environmental Studies and Resource Management on the topic "Plastics in packaging: Closing the loop" during February 2021 to June 2021. The project was carried out at the Indian Centre for Plastics in the Environment (ICPE).

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date:

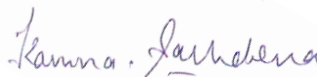
6<sup>th</sup> July 2021



Mr. TK Bandopadhyay  
Technical Director  
ICPE Mumbai.



Dr. Akash Sondhi  
Dept. of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Chandan Kumar has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic **Impact Assessment and Implementation Challenges of Solar based Programs in Chhattisgarh** during February 2021 to June 2021. The project was carried out at the Chhattisgarh State Renewable Energy Development Agency (CREDA).

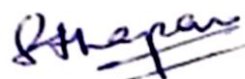
This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 07<sup>th</sup> July'2021



Shri B.B. Tiwari  
Superintending Engineer  
CREDA, Raipur

**B. B. Tiwari**  
**Superintending Engineer**  
**C.G. State Renewable Energy**  
**Development Agency (CREDA)**  
**Head Office, Raipur (C.G.)**



Dr. Sapan Thapar  
Associate Professor  
Department of Energy & Environment  
TERI School of Advanced Studies,  
New Delhi



Dr. Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies  
New Delhi



### CERTIFICATE

This is to certify that CHAYANIKA GUIN has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environment Studies and Resource Management on the topic SEPTAGE MANAGEMENT: AN IMPORTANT ASPECT IN URBAN AREAS from February 2021 to June 2021. The project was carried out at the IQVIA.

This dissertation embodies the original work of the candidate to the best of our knowledge.

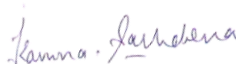
Date: 06<sup>th</sup> July 2021



Mrs. Ranjana Ray Chaudhuri  
Department of Coca-Cola  
Department of Regional  
Water Studies  
TERI School of Advanced Studies



Dr Rahul Nigam  
Project Manager  
IQVIA



Dr. Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

### CERTIFICATE

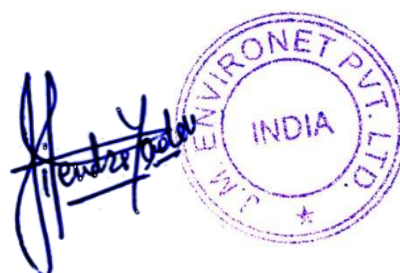
This is to certify that Dharvi Mahajan has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “Evaluation of Aquatic Life and Ecological Variables in Underground Lead- Zinc Mine in District Udaipur (Rajasthan)” during February, 2021 to June, 2021. The project was carried out at the J.M.EnviroNet Pvt. Ltd.

This dissertation embodies the original work of the candidate to the best of our knowledge.

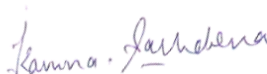
Date: June 30, 2021



Dr. Chander Kumar  
Singh Assistant Professor  
Department of Energy and  
Environment TERI School of Advanced Studies



Dr. Jitendra Yadav Associate  
Director J.M. EnviroNet  
Pvt. Ltd



Dr. Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

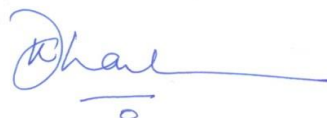
This is to certify that E. HARIPRIYA has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in ENVIRONMENTAL STUDIES AND RESOURCE MANAGEMENT on the topic “STUDY OF THE LIFE HISTORY TRAITS OF COMMONLY LANDED ELASMOBRANCHS BASED ON A LITERATURE REVIEW AND PRIMARY RESEARCH IN MALVAN, MAHARASHTRA”, during February 2021 to June 2021. The project was carried out at DAKSHIN FOUNDATION, BANGALORE.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 04.07.2021



Dr. Sudipta Chatterjee  
Associate Professor  
Department of Natural Resources  
TERI SAS



Dr. Kartik Shanker  
Centre for Ecological Studies,  
Indian Institute of Science,  
Bangalore  
& Dakshin Foundation, Bangalore



Dr. Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

**CERTIFICATE**

This is to certify that GARIMA SHARMA has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in ENVIRONMENTAL STUDIES AND RESOURCE MANAGEMENT on the topic “POLYCHLORINATED BIPHENYLS (PCB’s) A PERSISTENT ORGANIC POLLUTANT: THE CURRENT STATUS AND MANAGEMENT STRATEGIES IN INDIA” during February 2021 to June 2021. The project was carried out at RTI RESEARCH TRIANGLE INSTITUTE.

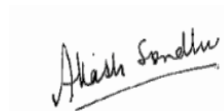
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Date: 06/7/21



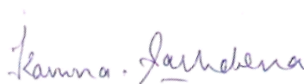
Dr. GAURAV BHATIANI

Director,  
Energy and Environment,  
RTI NEW DELHI.



Dr. AKASH SONDHI

Assistant Professor,  
Department of Energy and Environment,  
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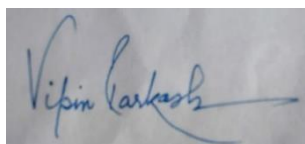
Dr. Kamna Sachdeva  
Associate Professor and Head of the Department of  
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## CERTIFICATE

This is to certify that Gayatri Sharma has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Environmental Studies and Resource Management on the topic "Impact of Industrial effluent on soil in Selaqui Pharma City, Dehradun, Uttarakhand" during February 2021 to June 2021. The project was carried out at the Forest Research Institute, Dehradun.

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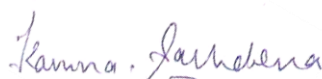
Date: 8 July, 2021



Dr. Vipin Parkash  
Scientist-E, Forest Pathology Division  
Resources Forest Research Institute  
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Dr. Sudipto Chatterjee  
Dept. of Natural  
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Dr Kamna Sachdeva  
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**CERTIFICATE**


This is to certify that Harsha K Ramanunni has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “SPATIO-TEMPORAL DISTRIBUTION AND BEHAVIOUR OF ASIAN ELEPHANTS DURING MUSTH IN THE EASTERN GHATS LANDSCAPE OF SOUTHERN INDIA” during February 2021 to June 2021. The project was carried out at the Foundation for Ecological Research, Advocacy and Learning (FERAL).

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 3 July 2021



Dr. Nishant M Srinivasaiah  
Senior Research Fellow  
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Associate Professor  
Department of Natural Resources  
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## CERTIFICATE

This is to certify that Harshit Kathayat has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “Determinants of Asian elephant occurrence in a human dominated landscape in Southern India.” during February 2021 to June 2021. The project was carried out at the Foundation for Ecological Research, Advocacy and Learning (FERAL). This dissertation embodies the original work of the candidate to the best of our knowledge.  
Date: 3 July 2021



Dr. Nishant M Srinivasaiah  
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Associate Professor  
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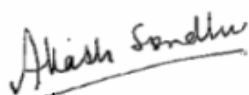
Dr Kamna Sachdeva  
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## CERTIFICATE

This is to certify that Het Mayurkumar Jani has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic **“Analysis of materials recovery facility: A case study of decentralized waste management system in Bangalore, India”** during February 2021 to June 2021. The project was carried out at the Saahas Waste Management Pvt. Ltd., Bangalore

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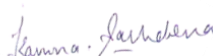
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Mr. Arun Murugesh  
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## CERTIFICATE

This is to certify that HINDOLI MANDAL has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “**METHANE ESTIMATION FROM LANDFILLS IN AN INTEGRATED WASTE MANAGEMENT SYSTEM OF INDIA**” from February 2021 to July 2021. The project was carried out at Rapidue Technologies Pvt. Ltd. (Recykal)

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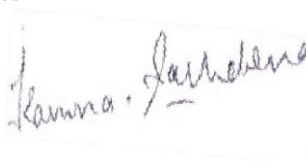
Date: 06.07.2021



Dr. Chander Kumar Singh  
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Mr. Akash Ratan Gupta  
Team Lead- Senior  
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Rapidue Technologies Pvt.  
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Dr. Kamna Sachdeva  
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## CERTIFICATE

This is to certify that Mr. Hrishikesh Saikia has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “Impacts from Domestic Cattle Grazing on Vegetation Composition and Soil Compaction in Sub-Himalayan Grasslands” during February 2021 to June 2021. The project was carried out at the Pygmy Hog Conservation Programme, Assam.

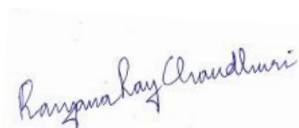
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Date: 6/7/2021



Dr. Dhritiman Das  
Field Scientist

Pygmy Hog Conservation  
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**CERTIFICATE**

This is to certify that ISRAT JAHAN has carried out her major project in partial fulfilment of the requirement for the degree of Master of Science in ENVIRONMENTAL STUDIES AND RESOURCE MANAGEMENT on the topic “BOTTLENECKS IN PROMOTION OF AQUACULTURE AS A SUSTAINABLE BIO-ENTERPRISE: A STUDY OF LIVE PROJECTS IN VILLAGES OF GOA” during February 2021 to June 2021. The project was carried out at the Goa State Biodiversity Board, Goa.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 06/07/2021



Dr. Manoj R Borkar

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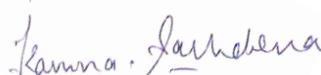
Carmel College for Women



Dr. Sudipto Chatterjee

Department of Natural Resources

TERI SAS



Dr. Kamna Sachdeva

Associate Professor and Head of the Department

Department of Energy and Environment


TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Justin Money has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “AN ANALYTICAL STUDY ON THE OPEN DEFECATION FREE STATUS OF STATES OF INDIA UNDER SWACHH BHARAT MISSION” during February 2021 to June 2021. The project was carried out at IQVIA.

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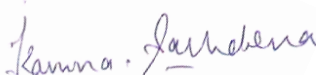
Date: 06<sup>th</sup> of July, 2021



Dr. Rahul Nigam  
External Supervisor  
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Dr. Prateek Sharma  
Department of Energy and Environment  
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Associate Professor and Head of the Department  
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## CERTIFICATE

This is to certify that K. Preeti has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Environmental Studies and Resource Management on the topic Nitrogen pollution in Western Himalayas: A study of atmospheric ammonia and its effects on pollution sensitive Lichens during February 2021 to June 2021. The project was carried out at the TERI – School of Advanced Studies.

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Date: 4<sup>th</sup> July 2021



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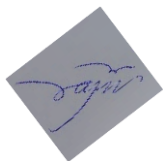


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TERI School of Advanced Studies

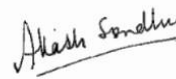
**CERTIFICATE**

This is to certify that Kanchi Dhoot has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental studies and Resource Management on the topic “A study of village level institutions and their role in sustainable natural resource management” during February 2021 to June 2021. The project was carried out at the Thinkthrough Consulting.

This dissertation embodies the original work of the candidate to the best of our knowledge.



Mr. Rajiv Nagpal  
Partner and leader at Development  
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Thinkthrough Consulting Pvt. Ltd



Dr. Akash Sondhi  
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The Energy and Resource Institute  
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## CERTIFICATE

This is to certify that **Kanishka** has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “**Nature and intensity of threats to the Gangetic dolphins caused by commercial fishery in the region of lower Ganges.**” during February 2021 to June 2021. The project was carried out at the **Wildlife Institute of India, Dehradun.**

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Date: 4<sup>th</sup> July 2021



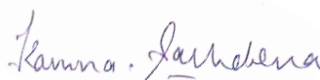
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## CERTIFICATE

This is to certify that Namya Sharma has carried out her major project in partial fulfillment of the requirement for the degree of Master of Science in Environment Studies and Resource Management on the topic “Examining the low carbon strategies of oil and gas companies” during February 2021 to June 2021. The project was carried out at IHS Markit, Gurgaon.

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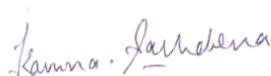
Date: 06.07.2021



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Associate Professor and Head of the Department  
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**CERTIFICATE**

This is to certify that Ms. Nidhi Chettri has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “The Use of Digital Platforms to Support Greenhouse Gas Reductions in the Oil and Gas Sector” during February 2021 to June 2021. The project was carried out at IHS Markit, Gurgaon.

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Date: 6<sup>th</sup> July 2021



Dr. Oscar Abbink

Research & Analysis  
Director

Cost & Technology

IHS Markit

Amsterdam - Parnassusweg



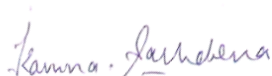
Dr. Manish Kumar Shrivastava

Assistant Professor

Department of Energy and  
Environment

TERI School of Advanced  
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New Delhi



Dr. Kamna Sachdeva

Associate Professor and Head of the Department

Department of Energy and Environment

TERI School of Advanced Studies

New Delhi

## Certificate

This is to certify that Niranjan B has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “Resource Sharing at waterholes by Asian Elephants in the Eastern Ghats landscape of Southern India” during February 2021 to June 2021. The project was carried out at the Foundation of Ecological Research Advocacy and Learning (FERAL)

This dissertation embodies the original work of the candidate to the best of our knowledge.

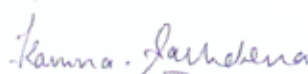
Date: 28-06-2021



Dr Chubamenla Jamir  
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Department of Energy and  
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Dr Nishant Srinivasaiah  
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Senior Research Fellow  
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Associate Professor and Head of the Department  
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TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Priyanka Panjwani has carried out her major project in partial fulfillment of the requirement for the Degree of Master of science in Environment Studies and Resource Management on the topic “**IMPACT ASSESSMENT OF CLIMATE SMART AGRICULTURE ON THE FARMERS OF INDIA**” during January 2021 to June 2021. The project was carried out at Think Through Consulting Pvt. Ltd. This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 05.07.2021



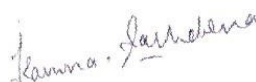
**Mr. Ajay Pandey**  
(External supervisor)

Think through Consulting Pvt. Ltd  
New Delhi, India



**Dr. Chubamenla Jamir**  
(Internal supervisor)

Department of Energy and Environment  
TERI School of Advanced Studies



**Dr. Kamna Sachdeva**

Associate Professor and Head of Department  
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### CERTIFICATE

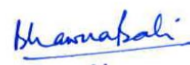
This is to certify that Shaivya Singh has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “An Assessment of the transition of Open Defecation Free (ODF) Status: A Case Study of Visakhapatnam City in Andhra Pradesh” during February 2021 to June 2021. The project was carried out at the IQVIA, New Delhi.

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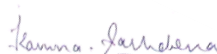
Date: 12<sup>th</sup> July 2021



Dr Rahul Nigam  
National Project Manager  
ODF+/ODF++/Water+  
IQVIA



Dr Bhawna Bali  
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TERI School of Advanced Studies

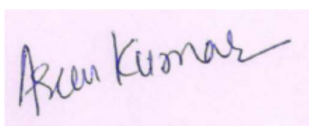


Dr Kamna Sachdeva  
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TERI School of Advanced Studies  
New Delhi

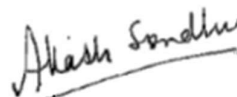
## CERTIFICATE

This is to certify that Shreya Susan Mathew has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Environmental Sciences and Resources Management on the topic “Occurrence and Human Health Risk Based Decision Making of Emerging Contaminants in Natural Waters” during February 2021 to June 2021. The project was carried out at the TERI School of Advanced Studies. This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 6<sup>th</sup> July, 2021



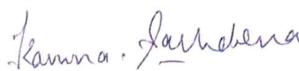
Dr Arun Kumar  
Department of Civil Engineering  
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IIT Delhi Hauz Khas  
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Dr. Anil Haritash  
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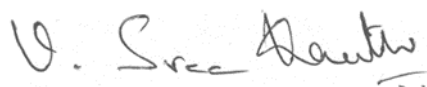
Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of  
Energy and  
Environment TERI  
School of Advanced  
Studies

## CERTIFICATE

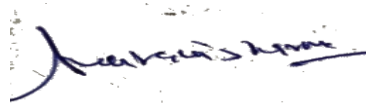
This is to certify that SHRUTI BAHUKHANDI has carried out her major project in the partial fulfillment of the requirement for the degree of Master of Science in the Department of Environmental Studies and Resource Management on the topic “PERFORMANCE COMPARISON OF VARIOUS STATISTICAL MODELS IN PREDICTING PM<sub>2.5</sub> USING SATELLITE AOD AND REANALYSIS METEOROLOGICAL VARIABLES” during the period January 2021 to June 2021. The project was carried out at CENTRE FOR STUDY OF SCIENCE, TECHNOLOGY AND POLICY (CSTEP).

To the best of our knowledge the thesis embodies the original work of the candidate.

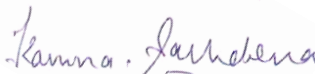
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Senior Research Scientist  
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Department of Energy and Environment  
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This is to certify that Shweta Bakshi has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic: “MODELLING URBAN FLOOD AND SEWERAGE USING MIKE+: A CASE STUDY OF GURUVAYUR MUNICIPALITY, THRISSUR, KERALA, INDIA” during February 2021 to June 2021. The project was carried out at DHI (India) Water & Environment Pvt. Ltd.

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Date: 6/07/2021



Dr. Vinay Shankar Prasad Sinha  
Associate Professor and Head of the  
Department of Natural Resources  
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Mr. Manish Kumar  
Senior Water Resource Engineer  
DHI (India) Water &  
Environment Pvt.  
Ltd.



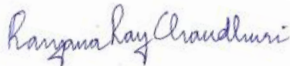
Dr. Kamna Sachdeva  
Associate Professor and Head of the  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that SRIJA CHAKRABORTY has carried out her major project in partial fulfillment of the requirement for the degree of master of M.Sc. in Environmental Studies and Resource Management on the topic *HEALTH, SOCIAL AND GOVERNANCE ISSUES ASSOCIATED WITH OPEN DEFECATION: A CLOSER LOOK* during February 2021 to June 2021. the project was carried out at IQVIA.

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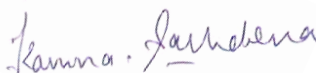
Date: 6<sup>th</sup> July 2021



Mrs. Ranjana Ray Chaudhuri  
Coca-Cola Department of Regional  
Water Studies  
TERI School of Advanced Studies



Dr. Rahul Nigam  
National Project Manager-  
ODF+/ODF++/Water+  
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Department of Energy and Environment  
TERI School of Advanced Studies



## CERTIFICATE

This is to certify that **Stuti Vaid** has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in **Environment Science and Resource Management** on the topic **Industrial Water Management: A study of Indian Distilleries** during February 2021 to June 2021. The project was carried out at the **J.M.EnviroNet Pvt. Ltd.**

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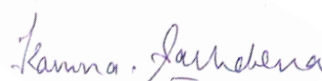
Date: 26.06.2021



External Supervisor  
Dr Jitendra Yadav  
JM EnviroNet Primate Limited



Internal Supervisor  
Dr Chander Kumar Singh  
Department of Energy and Environment  
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Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
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TERI School of Advanced Studies

### Certificate

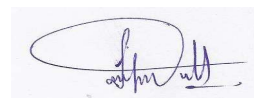
This is to certify that Ms. Surbhi Sharma has carried out her major project in partial fulfillment of the requirement for the Degree of MSc. in Environmental Studies and Resource Management on the topic Mapping of different Solid Waste Management Techniques in India during February 2021 to June 2021. The project was carried out at the Timarpur-Okhla Waste Management Company Limited.

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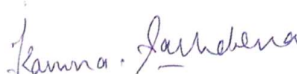
Date: 4<sup>th</sup> July 2021



Dr. Manish Kumar Shrivastava  
Department of Energy and Environment  
TERI school of Advanced Studies, New  
Delhi



Mr. Sandip Dutt  
Senior General Manager  
Timarpur-Okhla Waste  
Management Company Limited



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

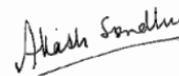
This is to certify that Tanveer Kaur Garewal has carried her major project in partial fulfilment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic WASTE MAPPING AND INVESTIGATING 3R (REDUCE, REUSE AND RECYCLE) OPPORTUNITIES FOR AN AUTOMOTIVE MANUFACTURING COMPANY during February 2021 to June 2021. The project was carried out at the PPAP AUTOMOTIVE LIMITED.

This dissertation embodies the original work of the candidate to the best of our knowledge.

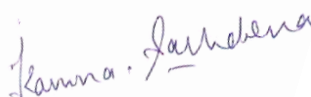
Date:06/07/2021



Mr. Sanjeev Arora  
Corporate Sustainability Department  
PPAP Automotive Limited



Dr. Akash Sondhi  
Department of Energy and Environment  
TERI School of Advanced Studies



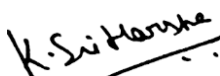
Dr. Kamna Sachdev  
Associate Professor and Head of Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Uday Suryanarayanan has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “Time series analysis of the association between mortality and ambient particulate matter pollution in Delhi” during February 2021 to June 2021. The project was carried out at the Indian Institute of Technology Delhi.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 30/06/2021



Dr. Sri Harsha Kota

Associate Professor

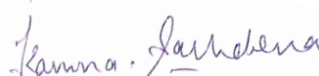
Department of Civil Engineering  
Indian Institute of Technology Delhi



Prof. Prateek Sharma

Professor

Department of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva

Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Upendrasingh Bhati has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic **Impact of COVID-19 on sanitary workers(Safaikamdar's) and livelihood of people living in informal settlements-a case study** during February 2021 to June 2021. The project was carried out at the TERI School of Advanced Studies.

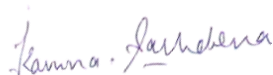
This dissertation embodies the original work of the candidate to the best of our knowledge.



Date: 06/07/2021  
Ms. Ranjana Ray Chaudhari  
Coca-Cola Department of  
Regional Water Studies  
TERI School of Advanced  
Studies



Date: 06/07/2021  
Ms. Ranjana Ray Chaudhari  
Coca-Cola Department of  
Regional Water Studies  
TERI School of Advanced  
Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

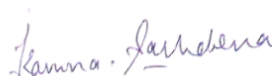
This is to certify that Vani has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “Spatio-temporal analysis of water quality for Krishna Basin, Karnataka” during February 2021 to June 2021. The project was carried out at TERI School of Advanced Studies.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 30 June 2021



Dr. Prateek Sharma  
(Internal & External Supervisor)  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Vanshika Chaubey has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic “URBAN FLOOD MODELLING USING MIKE+ SOFTWARE: AN APPLICATION TO CHALAKUDY MUNICIPALITY” during February 2021 to June 2021. The project was carried out at the DHI (India) Water & Environment Pvt. Ltd.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 21/06/2021



Dr. Vinay S. P. Sinha  
Head of Department and  
Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Mr. Manish Kumar  
Senior Water Resource Engineer  
DHI (India) Water and  
Environment Pvt. Ltd.



Dr Kamna Sachdeva  
Associate Professor and Head of the  
Department Department of Energy and  
Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Vasundhara Pandey has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environmental Studies and Resource Management on the topic Impacts of Nitrogen Pollution on Lichen Diversity and Cyanolichen Thallus during February 2021 to June 2021. The project was carried out at TERI School of Advanced Studies.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 5 July 2021



Dr. Sudipto Chatterjee  
Associate Professor  
Dept. of Natural Resources  
TERI School of Advanced Studies



Dr. Sudipto Chatterjee  
Associate Professor  
Dept. of Natural Resources  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies



## CERTIFICATE

This is to certify that Vedansh Jain has carried out his major project in partial fulfillment of the requirement for the Degree of Master of M.SC in Environmental Studies and Resource Management on the topic “**Assessment of Various Carbon Mechanisms available to meet targets under Paris agreement**” during February 2021 to June 2021. The project was carried out at Infinite Solutions, Indore.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date- 03/7/2021

For INFINITE SOLUTIONS  
  
Authorised Signatory

Mr. Jimmy Sah  
Co-Founder /Head  
Sustainability Infinite  
Solutions



Dr. Gopal K.  
Sarangi Asst.  
Professor  
Dept. of Policy Studies



Dr Kamna Sachdeva  
Associate Professor and Head of the  
Department of Energy and  
Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Vrushti Ketan Mehta has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Environment Studies and Resource Management on the topic **Analysis of Factors Affecting the Garbage Free City Star Rating of Urban Local Bodies in Gujarat** during February 2021 to June 2021. The project was carried out at the IQVIA , New Delhi.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 7<sup>th</sup> July, 2021

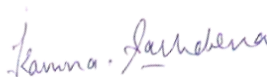


Upasna Kharb.

Ms. Upasna Kharb  
GFC Project Manager & Consultant  
IQVIA, New Delhi.



Dr. Akash Sondhi  
Department of Energy and  
Environment  
TERI SAS, New Delhi.



Dr. Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

**CERTIFICATE**

This is to certify that Akshar Tyagi has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “Drought Monitoring in Maharashtra using multi-sensor earth observation data” during February 2021 to May 2021. The project was carried out at the Regional Remote Sensing Centre (RRSC)-North.

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 05/07/2021



Dr. V.M. Chowdary  
Dy. General Manager  
RRSC(N), NRSC, ISRO  
New Delhi



Dr. Neeti  
Assistant Professor  
Department of Natural Resources  
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Dr. Vinay S. Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that MS. ANANDITA GUPTA has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “QUANTITATIVE ANALYSIS OF URBAN SPRAWL AND FUTURE MODELING OF GUNTUR CITY, ANDHRA PRADESH, USING GEOSPATIAL TECHNIQUES” during January 2021 to June 2021. The project was carried out at Andhra Pradesh Space Applications Centre (APSAC).

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: July 5<sup>th</sup>, 2021



Ch. Tata Babu  
(External Supervisor)  
Scientist- ‘C’,  
Andhra Pradesh Space Applications Center (APSAC)  
ITE&C Department, Govt. of AP  
Vijayawada, Andhra Pradesh



Dr. Nithiyanandam Yogeswaran  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies  
New Delhi, Delhi



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that ANKIT MAJUMDAR has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “AGRICULTURAL DROUGHT RISK ASSESSMENT OF KARNATAKA USING FUZZY LOGIC” during February 2021 to June 2021. The project was carried out at Sociometrik infer Private Limited.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 05/07/2021

Tisha Sehdev

Mrs. Tisha Sehdev  
(External Supervisor)  
Research & Development, Lead  
Sociometrik infer Private Limited.  
New Delhi

  
29-06-21

Dr. Nithiyanandam Yogeswaran  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



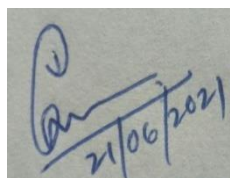
Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that DEBASHREE BHATTACHARJEE has carried out her major project in partial fulfillment of the requirement for the degree of Master of Science in Geoinformatics on the topic “AGRICULTURAL DROUGHT MONITORING USING GEOSPATIAL TECHNOLOGY” during February 2021 to June 2021. The project was carried out at the North Eastern Space Applications Centre Department of Space, Govt. of India Umiam, Meghalaya.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 05/07/2021

A handwritten signature in blue ink, appearing to be 'Jonali', with the date '21/06/2021' written below it.

Dr. Jonali Goswami  
(External Supervisor)  
Scientist 'SF'  
North Eastern Space Application  
Centre Umiam, Meghalaya

A stylized handwritten signature in blue ink, likely belonging to Dr. Vinay Shankar Prasad Sinha.

Dr. Vinay Shankar Prasad Sinha  
(Internal Supervisor)  
Head and Associate Professor  
Department of Natural Resource  
TERI School of Advanced Studies

A stylized handwritten signature in blue ink, identical to the one above, likely belonging to Dr. Vinay Shankar Prasad Sinha.

Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resource  
TERI School of Advanced Studies

## CERTIFICATE


This is to certify that DEBASMITA LAHIRI has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Geoinformatics on the topic "CONSERVATION PLANNING FOR BIODIVERSITY OF ASKOT LANDSCAPE USING MINIMUM OPPORTUNITY COST" during February 2021 to June 2021. The project was carried out at Wildlife Institute of India.

The Dissertation embodies the original work of the candidate to the best of our knowledge.



13/7/2021

Dr. Gautam Talukdar  
(External Supervisor)  
Scientist- E, Head  
Department of Protected Area Network,  
Wildlife Management and  
Conservation Education  
Wildlife Institute of India



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Dr Neeti  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr Vinay Shankar Prasad Sinha  
HOD and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

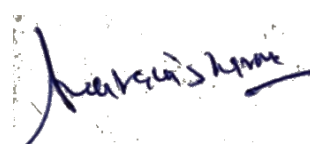
This is to certify that HARDIK NEGANDHI has carried out his major project in partial fulfillment of the requirement for the degree of Master of Science in Geoinformatics on the topic “DEVELOPMENT OF WEB-BASED GEOSPATIAL LEARNING RESOURCES USING GIS PLATFORMS” during February 2021 to June 2021. The project was carried out at the Esri India Technologies Private Limited.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 30/06/2021



Mr. Aswani Kumar Akella  
(External Supervisor)  
Program Manager – Higher Education  
Esri India Technologies Private Limited  
Noida, UP



Dr. Anu Rani Sharma  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

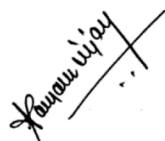


## CERTIFICATE

This is to certify that HARSHIT BHASIN has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “SATELLITE BASED REMOTE SENSING FRAMEWORK TO DELINEATE DEBRIS COVERED GLACIERS IN INDIAN HIMALAYAS” during February 2021 to June 2021. The project was carried out at Indian Institute of Technology, Roorkee.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 17.06.2021



Dr. Saurabh Vijay  
(External Supervisor)  
Assistant Professor  
Department of Civil Engineering  
IIT Roorkee



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email=neeti.squared@gmail.com, c=US  
Date: 2021.07.01 09:57:41  
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Dr. Neeti  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that MEHNAZ JABEEN has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “FOREST FIRE RISK ZONE MAPPING IN PAURI GARHWAL, UTTARAKHAND USING MULTISOURCE DATA” during February 2021 to June 2021. The project was carried out at FOREST SURVEY OF INDIA.

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 27-06-21



Dr. Sunil Chandra  
(External Supervisor)  
Deputy Director  
Forest Survey of India

डा० सुनील चन्द्र  
उपनिदेशक (का. एवं प्र.)  
भारतीय वन सर्वेक्षण  
देहरादून



Dr. Vinay Shankar Prasad Sinha  
(Internal Supervisor)  
Head and Associate Professor  
Department of Natural Resources  
Teri School of Advanced Studies



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
Teri School of Advanced Studies

### CERTIFICATE

This is to certify that MOHAMMAD TAYYAB has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “DIGITIZATION OF SCANNED LEGAL DOCUMENTS AND MAPPING DATASETS FOR INTERACTIVE MILL MAP” during January 2021 to May 2021. The project was carried out at Centre for Policy Research.

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 05/07/2021



Kaustuv DeBiswas  
(External Supervisor)  
Visiting Fellow  
Centre for Policy Research



Dr. Neeti  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that NISHANT THAPLOO has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “FLOOD MAPPING AND EXPOSURE ANALYSIS OF ASSAM USING SAR IMAGERY” during March 2021 to June 2021. The project was carried out at Risk Management Solutions (RMS).

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 19/07/2021



Alpana Das  
(External Supervisor)  
AGM  
RMS



Dr. Vinay Shankar Prasad Sinha  
(Internal Supervisor)  
Head and Associate Professor  
Department of Natural Resources



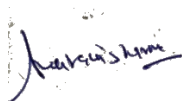
Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

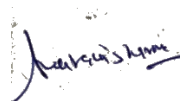
This is to certify that NITIN SINGH GHUGTYAL has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “AIR QUALITY CRITERIA POLLUTANT FORECASTING USING LSTM NEURAL NETWORK AND FACEBOOK PROPHET MODEL FOR KANPUR CITY, UTTAR PRADESH” during February 2021 to June 2021. The project was carried out at the TERISchool of Advances Studies.

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 28 June 2021



Dr. Anu Rani Shamra  
(External Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr. Anu Rani Shamra  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that, OJO PATRICK DUKE, has carried out his major project dissertation in partial fulfillment of the requirement for the degree of Master of Science in Geoinformatics on the topic “APPLICATION OF MACHINE LEARNING AND UAV DATA IN CROP TYPE IDENTIFICATION: A CASE STUDY OF IITA IBADAN, CAMPUS” during February 2021 to May 2021. The project was carried out at the International Institute of Tropical Agriculture (IITA), Ibadan Campus, Nigeria.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 30<sup>th</sup> June 2021



Mr. Tunrayo Alabi  
(External Supervisor)  
Manager, GIS Unit  
International Institute of Tropical  
Agriculture (IITA, CGIAR)  
Ibadan, Nigeria



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mail.com, c=US  
Date: 2021.07.01  
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Dr. Neeti  
(Internal Supervisor)  
Assistant Professor  
TERI School of Advanced Studies  
New Delhi, India



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that PIYUSH KUMAR has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “INVESTIGATION OF WATER CONTENT ON THE LUNAR SOUTH POLE USING CHANDRAYAAN-2 FULLY POLARIMETRIC DATA” during January 2021 to June 2021. The project was carried out at the Indian Institute of Remote Sensing (IIRS), Indian Space Research Organisation (ISRO), Dehradun through online mode.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 21/06/2021



Mr. Hari Shankar  
(External Supervisor)  
SE, Scientist/engineer  
Indian Institute of Remote Sensing (IIRS)  
Indian Space Research Organization (ISRO)  
Dehradun, India



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email=neeti.singh@igm  
ai.com, c=US  
Date: 2021.07.03 11:25:48  
+05'30'

Dr. Neeti  
(Internal Supervisor)  
Department of Natural Resources  
TERI School of Advanced Studies  
New Delhi



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that PRIYAL BHATIA has carried out her major project in partial fulfilment of the requirement for the degree of Master of Science in Geoinformatics on the topic “ANALYSIS OF URBAN GREEN SPACES USING GEOSPATIAL TECHNIQUES - A CASE STUDY OF VIJAYAWADA URBAN LOCAL BODY, ANDHRA PRADESH, INDIA” during January 2021 to June 2021. The project was carried out at the Andhra Pradesh Space Applications Centre (APSAC).

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 02/07/2021



Dr. Vani Timmapuram  
(External Supervisor)  
Scientist- SD  
APSAC  
Andhra Pradesh

  
29-06-21

Dr. Nithiyanandam Yogeswaran  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

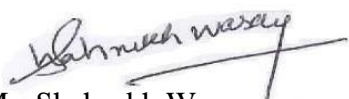


### CERTIFICATE

This is to certify that PROTIKAR SEN has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “USE OF GIS IN BUSINESS DEVELOPMENT” during January 2021 to May 2021. The project was carried out at the ESRI India Technologies.

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 08/06/2021



Mr. Shahrukh Wasay  
(External Supervisor)  
Manager Training  
Professional Service Division  
ESRI India Technologies



Dr. Vinay Shankar Prasad Sinha  
(Internal Supervisor)  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that MS. RIYA GHOSH has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Geo-informatics “DEVELOPMENT OF WEB-BASED PROTOTYPE ON AGRICULTURE AND SUPPORTING NATURAL RESOURCES OF INDIA” during February 2021 to June 2021. The project was carried out at The Energy and Resources Institute, New Delhi and TERI School of Advanced Studies, New Delhi.

The Dissertation embodies the original work of the candidate to the best of our knowledge.



Mr. Dharmesh Kumar Singh  
(External Supervisor)  
Research Associate  
Water Resources Division  
The Energy and Resources Institute,  
New Delhi -110003



Dr. Vinay Shankar Prasad Sinha  
(Internal Supervisor)  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies,  
New Delhi-110070



Dr. Vinay Shankar Sinha Prasad  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

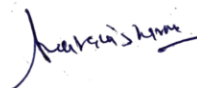
This is to certify that SAYANTANI MAJUMDER has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “GEOSPATIAL APPROACH FOR IDENTIFICATION OF TRANSPORT INFRASTRUCTURE DEVELOPMENT AND MANAGEMENT STRATEGY” during February 2021 to May 2021. The project was carried out at the TERI School of Advanced Studies, New Delhi.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 5<sup>th</sup> July, 2021



Dr. Deepty Jain  
(External Supervisor)  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Anu Rani Sharma  
(Internal Supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that SRAVANI PONUGOTI has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in Geoinformatics on the topic “GROUNDWATER CHANGE ANALYSIS OVER INDIA USING GRACE SATELLITE OBSERVATIONS” during January 2021 to July 2021. The project was carried out at the National Center for Earth Science Studies, Kerala.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 01-07-2021



Dr. K. Sreelash  
(External supervisor)  
Scientist C  
Hydrology Group  
National Centre for Earth Science Studies  
Ministry of Earth Science, Govt of India  
Thiruvananthapuram,  
Kerala, India



Dr. Nithiyanandam Yogeswaran  
(Internal supervisor)  
Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies  
New Delhi, India



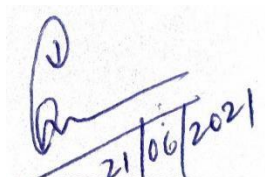
Dr Vinay Shankar Prasad  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

### CERTIFICATE


This is to certify that SREEJA DAS has carried out her major project in partial fulfilment of the requirement for the degree of Master of Science in GEOINFORMATICS on the topic “CROP DAMAGE ASSESSMENT DUE TO BANK LINE EROSION IN NORTH BANK PLAIN DISTRICTS OF ASSAM” during February 2021 to June 2021. The project was carried out at North Eastern Space Application Centre, Umiam, Meghalaya.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 05/07/2021



Dr. Jonali Goswami  
(External Supervisor)  
Scientist ‘SF’  
North Eastern Space Application Centre  
Umiam, Meghalaya



Dr. Vinay Shankar Prasad Sinha  
(Internal Supervisor)  
Head and Associate Professor  
Department of Natural Resource  
TERI School of Advanced Studies



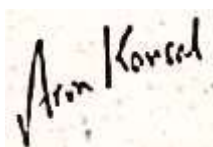
Dr. Vinay Shankar Prasad Sinha  
Head and Associate Professor  
Department of Natural Resources  
TERI School of Advanced Studies

CERTIFICATE

This is to certify that BHUYASHEE RAJKUMARI have carried out her major project in partial fulfillment of the requirement for the degree of Master of Science in Water Science and Governance on the topic “MULTIPLE CROPPING WITH BLACK PEPPER AS A SUSTAINABLE FARMING METHOD” in July 2021. The project was carried out at the CTRAN Consulting Pvt. Limited, Bhubaneswar, Odisha, India.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 12<sup>th</sup> July’ 2021



Professor Arun Kansal

**INTERNAL SUPERVISOR**

(Head of the Department)

Dean (Research and Relationships)

Department of Regional Water Studies

TERI School of Advanced Studies



Mr. Hemant Satapathy

**EXTERNAL SUPERVISOR**

(Senior AVP)

CTTRAN Consulting Pvt. Ltd.

Bhubaneswar, Odisha

## CERTIFICATE

This is to certify that **Lipi Gandhi** has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Science in **Water Science and Governance** on the topic “**Flood Risk Assessment Of Panaji**” during January 2021 to June 2021. The project was carried out at TERI School of Advanced Studies, New Delhi.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

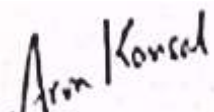
Date: 12<sup>th</sup> July 2021



**Dr. Balaji Angamuthu**  
Technical Lead  
Royal Haskoning DHV



**Dr. Fawzia Tarannum**  
Assistant Professor  
Department of Regional Water Studies  
TERI School of Advanced Studies



**Prof Arun Kansal**  
Dean (Academic) and Professor  
Coca-Cola Department of Regional Water Studies  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that **Prutha Rajendra Machiwal** has carried out his minor project in partial fulfillment of the requirement for the Degree of Master of Science in Water Science and Governance on the topic “**IRRIGATION SCHEDULING OF SELECT CROPS USING CROPWAT MODEL**” during February 2021 to July 2021. The project was carried out at TERI School of Advanced Studies.

The Dissertation embodies the original work of the candidate to the best of our knowledge

Date: 12 July 2021



**Dr Sherly MA**  
(Internal Supervisor)  
Assistant Professor  
Coco-Cola department of regional water studies  
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**Dr. Fawzia Tarannum**  
(External Supervisor)  
Assistant Professor  
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TERI School of Advanced Studies



**Prof Arun Kansal**  
Dean (Academic) and Professor  
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TERI School of Advanced Studies



## CERTIFICATE

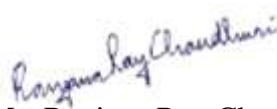
This is to certify that Shriyans Chaturvedi has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Science in Water Science and Governance on the topic “A Comparative Water Quality Assessment of Hauz Khas Lake with Lake of Basai Wetland” during February 2021 to June 2021. The project was carried out at TERI School of Advanced Studies.

The Dissertation embodies the original work of the candidate to the best of our knowledge

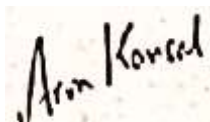
Date: 12th July, 2021



Dr. Fawzia Tarannum  
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Assistant Professor  
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Ms. Ranjana Ray Chaudhuri  
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Programme Coordinator  
Department of Regional Water Studies  
TERI School of Advanced Studies



Prof. Arun Kansal  
HoD and Professor  
Coca-Cola Department of Regional Water Studies  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that AKSHAY GATTU has carried out his major project in partial fulfillment of the requirement for the degree of Master of Technology in Renewable Energy Engineering and Management on the topic “**Stochastic Approach-Based Method for Evaluating Solar Rooftop Hosting Capacity of a Distribution Network**” during February 2021 to June 2021. The project was carried out at the **GIZ India**.

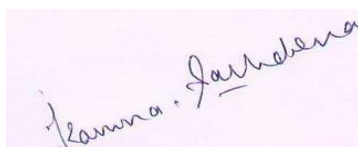
Date: 30-06-2021



Mr. Kuldeep Sharma  
Advisor, Indo-German Energy Programme  
Deutsche Gesellschaft für Internationale  
Zusammenarbeit (GIZ) GmbH



Dr. Naqui Anwer  
Associate Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that **Charan V** has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Technology in **Renewable Energy Engineering and Management** on the topic “**Energy Conservation Opportunities for Building and Manufacturing Industries**” during February 2021 to May 2021. The project was carried out at the **STENUM Asia Sustainable Development Society, Gurugram.**

This dissertation embodies the original work of the candidate to the best of our knowledge.

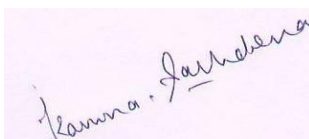
Date:26-06-2021



Mr Rajat Batra  
(External Supervisor)  
Chief Executive Officer  
STENUM Asia



Dr Sapan Thapar  
(Internal Supervisor)  
Associate Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

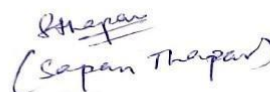
This is to certify that DEEPAK KALRA has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Technology in Renewable Energy Engineering and Management on the topic “STUDY OF GREEN POWER SOURCING FOR AN AUTOMOTIVE MANUFACTURING COMPANY.” during February 2021 to June 2021. The project was carried out PPAP Automotive Limited, Noida.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

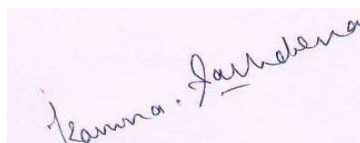
Date: 29.06.2021



Sanjeev Arora  
(External Supervisor)  
Corporate Sustainability Department  
PPAP Automotive Limited



Dr. Sapan Thapar  
(Internal Supervisor)  
Associate Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

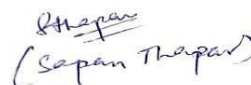
This is to certify that INTAKHAB ALAM KHAN has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Technology in Renewable Energy Engineering and Management on the topic “INDIAN INDUSTRIAL ECOLOGY: REAL TIME MARKET ASSESSMENT” during February 2021 to June 2021. The project was carried out at the PANITEK POWER.

This dissertation embodies the original work of the candidate to the best of our knowledge.

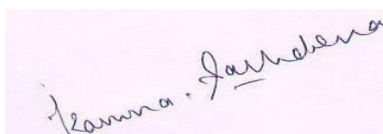
Date: 29/06/2021



Mr. Arjun Arya  
(External Supervisor)  
Lead Engineer New Technologies- India  
PANITEK POWER  
INDIA



Dr Sapan Thapar  
(Internal Supervisor)  
Associate Professor  
Department of Energy & Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE


This is to certify that **Khan Saba Nashit** has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Technology in **Renewable Energy Engineering and Management** on the topic “**Technical and Economical Assessment of various charging solutions for Electric Buses in India**” during February 2021 to June 2021. The project was carried out at **Shakti Sustainable Energy Foundation (SSEF)**.

The Dissertation embodies the original work of the candidate as well as the critical references of the work suggested by the **Mr. Ruchir Shukla** (External Supervisor) and **Dr. Naqui Anwer** (Internal Supervisor) along with the information taken from critical sources as recorded by the project to the best of our knowledge.

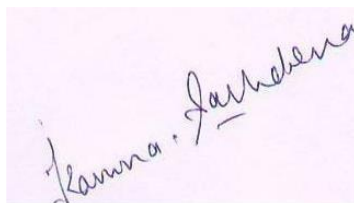
Date: 28-06-2021

*Ruchir Shukla*

Ruchir Shukla  
(External Supervisor)  
Director (Electric Mobility)  
Shakti Sustainable Energy Foundation



Dr. Naqui Anwer  
(Internal Supervisor)  
Associate Professor  
Department of Energy and  
Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that LAVKESH BALCHANDANI has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Technology in Renewable Energy Engineering and Management on the topic “DESIGN AND FEASIBILITY ASSESSMENT OF AGRIVOLTAIC GREENHOUSES IN INDIA” during February 2021 to June 2021.

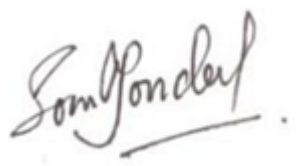
This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 01<sup>st</sup> July, 2021



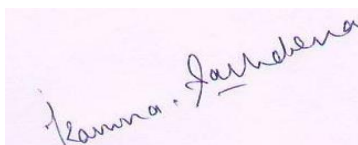
Dr. Aviruch Bhatia  
(Co-supervisor)  
Assistant Professor

Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Som Mondal  
(Internal Supervisor)  
Assistant Professor

Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

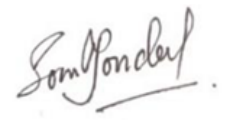
## CERTIFICATE

This is to certify that Lokesh Sood has carried out his major project in fulfilment of the requirement for the Degree of Master of Technology in Renewable Energy Engineering & Management on the topic “Design Concept to make cheaper gateway to take sensor data to Cloud.” during March 2021 to July 2021. The project was carried out at the TATA Power Co. Ltd.

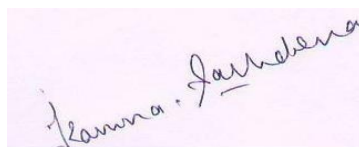
Date: 07/07/21



Mr. Amit Jain  
(External Supervisor)  
Group Head  
TATA Power Co. Ltd.



Mr. Som Mondal, Ph.D.  
(Internal Supervisor)  
Assistant Professor  
Dept. of Energy &  
Environment  
TERI School of  
Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies



## CERTIFICATE

This is to certify that NUPUR has carried out her major project in partial fulfillment of the requirement for the degree of Master of Technology in Renewable Energy Engineering and Management on the topic “**Value of Distributed Solar PV for DISCOMs in India**” during January 2021 to June 2021. The project was carried out at GIZ.

This dissertation embodies the original work of the candidate of the best of our knowledge.

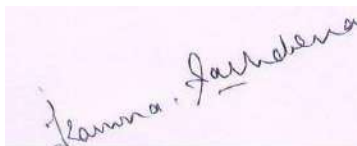
Date: 28<sup>th</sup> June 2021



Mr. Kuldeep Sharma  
(External Supervisor)  
Advisor, IGEN Solar  
GIZ



Dr. Som Mondal  
(Internal Supervisor)  
Assistant Professor  
Department of Energy and Environment



Dr. Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

**CERTIFICATE**

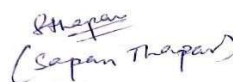
This is to certify that **PANCHOLI ABHILASH SHARADBHAI** has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Technology in **Renewable Energy Engineering and Management** on the topic **“Roadmap to promote rooftop solar in Gujarat for Commercial & Industrial sector.”** during February 2021 to June 2021. The project was carried out at **The Energy and Resources Institute, (TERI), New Delhi.**

The Dissertation embodies the original work of the candidate to the best of our knowledge.

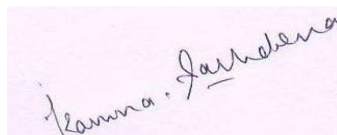
Date: 27 June, 2021



Mr. Arpo Mukherjee  
Associate Fellow  
The Energy and resources Institute(TERI)  
New Delhi.



Dr. Sapan Thapar  
Associate Professor  
Department of Energy and Environment  
TERI School of Advance Studies

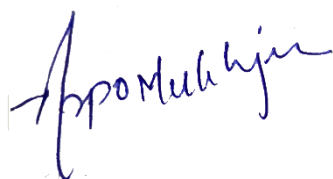


Dr. Kamna Sachdeva  
Associate Professor & Head  
Department of Energy & Environment  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that **Praveer Kumar Jha** has carried out his minor project in partial fulfilment of the requirement for the degree of Master of Technology in Renewable Energy Engineering and Management on the Topic “**Identification of Business Models and Financing Options for Renewable Technology in Papua New Guinea**” during February 2021 to June 2021. The project was carried out at **The Energy and Resources Institute (TERI)**.

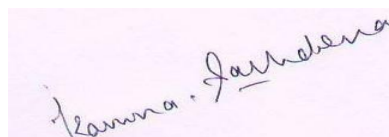
Date: 28/06/2021



Mr. Arpo Mukherjee  
Department: RETA  
The Energy and Resources Institute



Dr. Aviruch Bhatia  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that S. SURAJ has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Technology in **Renewable Energy Engineering and Management** on the topic “**Identifying Energy Saving Opportunities in the Energy Intensive Kraft Paper SME**” during February 2021 to June 2021. The project was carried out at Namdhari Eco Energies Pvt. Ltd.

This dissertation embodies the original work of the candidate to the best of our knowledge.

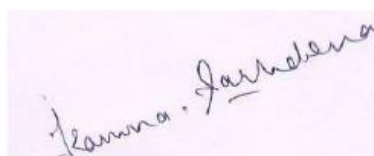
Date: 27<sup>th</sup> June 2021



Mr. Bali Singh  
Project Manager  
Namdhari Eco Energies Pvt. Ltd.

A handwritten signature in blue ink.

Dr. Aviruch Bhatia  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies

A handwritten signature in blue ink.

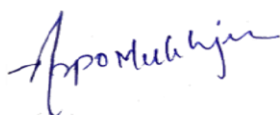
Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that **SHAHEEN SULTANA** has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Technology in **Renewable Energy Engineering and Management** on the topic “**Energy Access & Potential Assessment of Solar PV Systems in Small Island Developing States (SIDS)-A Case Study on PNG.**” during February 2021 to June 2021. The project was carried out at **The Energy and Resources Institute (TERI), New Delhi.**

The Dissertation embodies the original work of the candidate to the best of our knowledge.

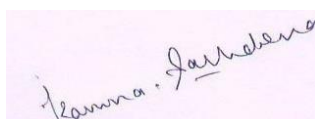
Date: 27.06.2021



Mr. Arpo Mukharjee  
Associate Fellow  
The Energy and Resources Institute.



Dr. Aviruch Bhatia  
Assistant Professor  
Department of Energy and Environment.  
TERI School of Advanced Studies

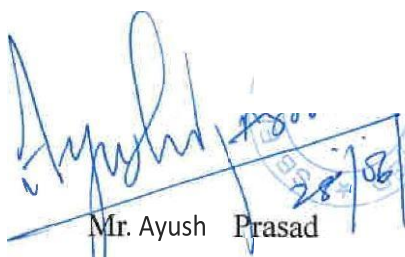


Dr. Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

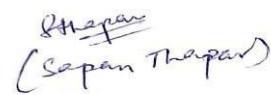
### CERTIFICATE

This is to certify that Shreya Pandit has carried out her minor project in partial fulfilment of the requirement for the degree of Master of Technology in Renewable Energy Engineering and Management on the Topic “**Scanning the Regulatory Framework in Indian Renewable Energy Sector: “CERC Perspective”**” during February 2021 to June 2021. The project was carried out at **SB Energy**.

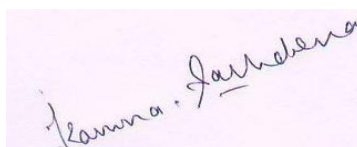
Date: 28/06/2021



Mr. Ayush Prasad  
Senior Manager  
Department: Regulatory & BD  
SB Energy



Dr. Sapan Thaper  
(Internal Supervisor)  
Associate Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdev Associate Professor and  
Head Department of Energy and Environment  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that Souryadeep Basak has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Technology in Renewable Energy Engineering and Management on the topic 'Off-Grid Hydroponic Greenhouse as an Income Enhancement Model' during February 2021 to June 2021. The project was carried out at the TERI School of Advanced Studies.

This dissertation embodies the original work of the candidate to the best of our knowledge.

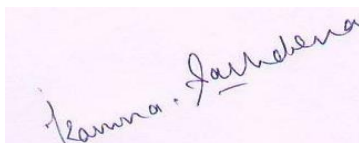
Date: 30.06.2021



Dr. Som Mondal  
(Co-supervisor)  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Aviruch Bhatia  
(Internal Supervisor)  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr. Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Srijan Mukhopadhyay has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Technology in Renewable Energy Engineering and Management on the topic “Smart Charging for Indian EVs” from January 2021 to June 2021.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 06 July, 2021

Mrs. Chandana Sasidharan



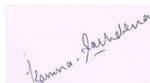
(External supervisor) Principal  
Research Associate  
Power Utility and Electric Mobility Vertical Alliance  
for an Energy Efficient Economy

Dr. Naqui Anwer



(Internal supervisor)  
Associate Professor  
Department of Energy &  
Environment  
TERI School of Advanced Studies

Dr. Kamna Sachdeva



Associate Professor and  
Head Department of Energy  
& Environment TERI  
School of Advanced Studies



## CERTIFICATE

This is to certify that **URVASHI SINGH** has carried out her major project in partial fulfilment of the requirement for the Degree of Master of Technology in **Renewable Energy Engineering and Management** on the topic “**An Artificial Neural Network Based Approach for Solar Power Generation Forecasting**” during February 2021 to June 2021. The project was carried out at **The Energy and Resources Institute, New Delhi.**

This dissertation embodies the original work of the candidate to the best of our knowledge.

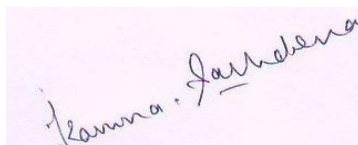
Date: 28-06-2021



Mr Shirish S Garud  
Senior Fellow  
Renewable Energy Technologies  
The Energy and Resources Institute



Dr Aviruch Bhatia  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies



Dr Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

### CERTIFICATE

This is to certify that **Zeenat Farooq** has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Technology in Renewable Energy Engineering and Management on the topic “**Sustainable Energy Transition in J&K through Social Innovation approach**” during March 2021 to July 2021. The project was carried out at the World Bioenergy Association.

The dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 08.07.2021



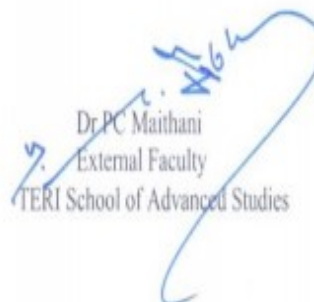
Bharadwaj Kumnamuru

Executive Director

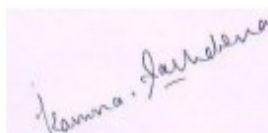
World Bioenergy Association

[Bharadwaj.v.kumnamuru@worldbioenergy.org](mailto:Bharadwaj.v.kumnamuru@worldbioenergy.org)

+46 76 71 59 785



Dr. PC Maithani  
External Faculty  
TERI School of Advanced Studies



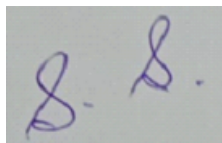
Dr Kamna Sachdeva  
Associate Professor and Head  
Department of Energy and Environment  
TERI School of Advanced Studies

## CERTIFICATE

This is to certify that Alankrita Mallick has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Technology in Urban Development & Management on the topic **Systematic Review of Star Rating of Garbage Free Cities Project** during February 2021 to June 2021. The project was carried out at IQVIA with Brand Mantra.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 28 June 2021

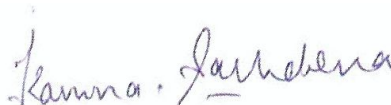


Dr. Shaleen Singhal

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Mr. Ajay Solanki  
Business Director  
Brand Mantra



Dr Kamna Sachdeva<sup>[SEP]</sup>


Associate Professor and Head of the Department  
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### Certificate

This is to certify that **Anuja Narendra Chavan** has carried out her major project in partial fulfilment of the requirement for the **Degree of Master of Technology in Urban Development and Management** on the topic, **Practises, Problems, and Prospects in the formulation of GIS-based Master Plan in the Context of Rameswaram City**, during February 2021 to June 2021. The project was carried out at the Deutsche Gesellschaft Fur Internationale Zusammenarbeit (GIZ) GmbH.

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Date: 1<sup>st</sup> July 2021

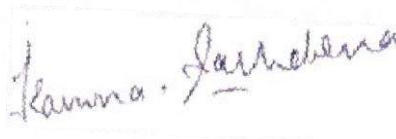


Ms Deeptha Jayakar  
Jr Technical Expert  
GIZ, India.



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Assistant Professor  
Department of Natural Resources  
TERI School of Advanced Studies



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### Certificate

This is to certify that Faiz Jamal has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Technology in Urban Development and Management on the topic Coal Demand and Indian Railways- An analysis of a Cluster of Thermal Power Plants during January 2021 to May 2021. The project was carried out at the Center for Sustainable Mobility, The Energy and Resources Institute, New Delhi.

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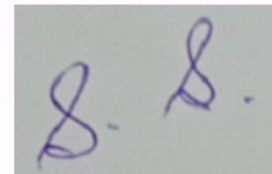
Date: June 28, 2021.



Mr. Sharif Qamar



Fellow and Area Convenor  
Centre for Sustainable Mobility  
The Energy and Resources Institute



Dr. Shaleen Singhal

Dean (Research and Relationships)  
Department of Energy and Environment  
TERI School of Advanced Studies



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Associate Professor and Head of the Department  
Department of Energy and Environment  
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## CERTIFICATE

This is to certify that Shri. Kauntey Suryavanshi has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Technology in Urban Development and Management on the topic “Analyzing Air Pollution and Graded Response Action Plan (GRAP) in Gurugram” during January 2021 to June 2021, besides he has been exposed to different departments and projects related to Urban Development and had been provided a hands-on experience of management of the city. The projects were carried out at Municipal Corporation of Gurugram in Gurugram, Haryana.

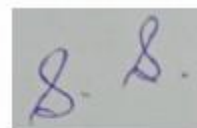
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Date: 28<sup>th</sup> June, 2021.



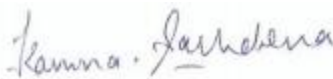
(Signature)

Ms. Jaspreet Kaur, IAS  
Addl. Commissioner-IV  
Municipal Corporation  
Gurugram  
Municipal Corporation of Gurugram



(Signature)

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Dean (Research and Relationships)  
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New Delhi

### CERTIFICATE

This is to certify that **Keshav Bajpai** has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Technology in Urban Development and Management on the topic **Garbage Free City (GFC) Star Rating 2021 Protocol for Indian cities: A Review** during January 2021 to May 2021. The project was carried out at the Brand Mantra on IQVIA project of GFC Star Rating 2021 of Ministry of Housing and Urban Affairs, Government of India.

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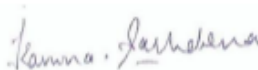
Date:28/06/2021



**Mr. Ajay Solanki,**  
Business Director,  
Brand mantra,  
New Delhi



**Dr. Abhijit Datey,**  
Assistant Professor  
Department of Energy and Environment  
TERI School of Advanced Studies.



**Dr. Kamna Sachdeva**  
Associate Professor and Head of the  
Department of Energy and Environment  
TERI School of Advanced Studies



### Certificate

This is to certify that **Komal** has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Technology in Urban Development and Management on the topic **Integrated Solid Waste Management plan for Faridabad** during February 2021 to June 2021. The project was carried out at Human Matrix Securite.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

**Date:** 28<sup>th</sup> June, 2021



**Mr. Rishabh Gupta**  
Project Head  
SBM- PIU Faridabad  
Human Matrix Securite

A handwritten signature in blue ink, reading 'Ranjana Ray Chaudhuri'.

**Ms. Ranjana Ray Chaudhuri**  
Lecturer, Department of Regional  
Water Studies  
TERI School of Advanced Studies

A handwritten signature in blue ink, reading 'Kamna Sachdeva'.

**Dr. Kamna Sachdeva**  
Associate Professor and Head of the Department  
Department of Energy and Environment  
TERI School of Advanced Studies  
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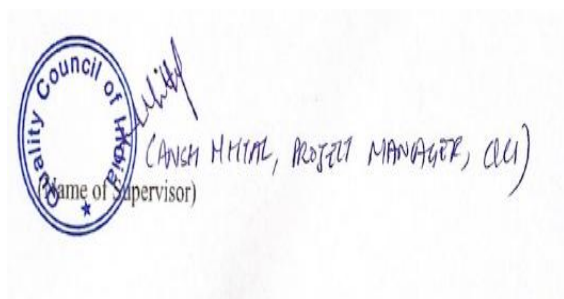


## CERTIFICATE

This is to certify that Mohit Nalawade has carried out his major project in partial fulfilment of the requirement for the Degree of Master of Technology in Urban Development and Management on the topic Urban Sanitation in India- Comparative Study Ahmedabad and Pune City during February 2021 to June 2021. The project was carried out at Quality Council of India.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 2<sup>th</sup> July, 2021.



### External Supervisor

Ansh Mittal

(Project Manager, QCI)

### Internal Supervisor

Ms. Ranjana Chaudhary

Coca-Cola Department of Regional Water Studies

Teri School of Advanced Studies, New Delhi

Dr. Kamna Sachdeva

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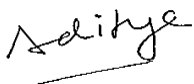
Teri School of Advanced Studies, New Delhi

## CERTIFICATE

This is to certify that Naveen Kumar has carried out his major project in partial fulfillment of the requirement for the Degree of Master of Technology in Urban Development and Management on the topic Mission Clean Gurugram City: Planning of Zero Waste Model (ZWM) during February 2021 to June 2021. The project was carried out at the Human Matrix Securite, Gurugram, India.

This dissertation embodies the original work of the candidate to the best of our knowledge.

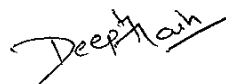
Date: 25 June 2021.



Mr. Aditya Sharma

Department of Swachh Bharat Mission

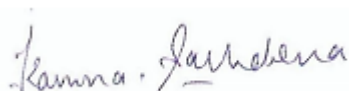
Human Matrix Securite, Gurugram.



Dr. Deepty Jain

Department of Energy and Environment

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### Certificate

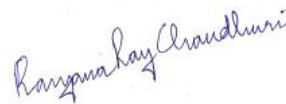
This is to certify that **Nishchint** has carried out her major project in partial fulfillment of the requirement for the degree of Master of Technology in Urban Development and Management on the topic “**Assessment of WaSH and Health Provisions in Raipur, Bhopal and Pune**” during 01<sup>st</sup> February 2021 to 12<sup>th</sup> June 2021. The project was carried out at **Praja Foundation, Mumbai**.

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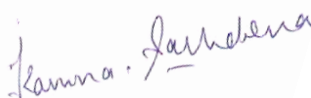
Date: 28<sup>th</sup> June, 2021



(Signature)  
Mr. Aviral Narayan Dubey  
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Praja Foundation  
Wadala, Mumbai.



(Signature)  
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## Certificate

### CERTIFICATE

This is to certify that Pooja Choudhary has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Technology in Urban Development Management on the topic **“Assessing Accessibility for Persons with Disabilities in public buildings of Delhi: case study of Central Delhi and New Delhi”** during February 2021 to June 2021. The project was carried out at the **Geostat Informatics India Pvt. Ltd.**

This dissertation embodies the original work of the candidate to the best of our knowledge.

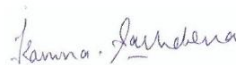
Date: 28<sup>th</sup> June 2021



(Signature)  
Ms. Shivani Singh  
Vice President  
Geostat Informatics  
India Pvt. Ltd.



(Signature)  
Dr. Abhijit Datey  
Assistant Professor  
Department of Energy  
and Environment  
TERI SAS



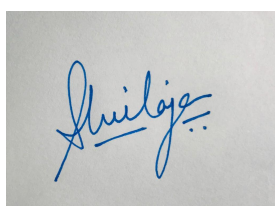
Dr Kamna Sachdeva  
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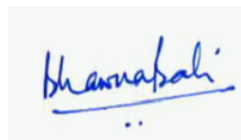
This is to certify that Rohini Singh has carried out her major project in partial fulfillment of the requirement for the Degree of Master of Technology in Urban Development and Management on the topic “An Assessment of Plastic Waste Market in Delhi: A Case Study of Tikri Kalan” during January 2021 to June 2021. The project was carried out at Veolia India Private Limited, Noida.

The dissertation embodies the original work of the candidate to the best of our knowledge.

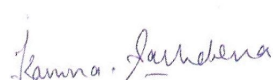
Date: 25th June, 2021



Ms. Sheilaja Raje Singh  
Deputy General Manager  
MarComS and Health & Safety  
Veolia India Private Limited



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This is to certify that **Shiren Pandita** has carried out her major project in partial fulfillment of the requirement for the degree of Master of Technology in Urban Development and Management on the topic “**Strategies To Rejuvenate And Revive Urban Water Bodies: Case of Rajakhara Town, Rajasthan, India**” of the Project during January 2021 to July 2021. The project was carried out at **Phoenix Planning Studioz Pvt. Ltd.** The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 21st June 2021

For Phoenix Planning Studioz Pvt. Ltd.  
  
Director

(Signature)

Mr.

Santosh Singh Sangar

Director

Phoenix Planning Studioz Pvt. Ltd.



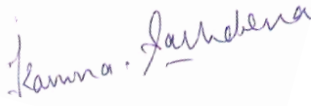
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Dr.

Fawzia Tarannum

Assistant Prof.

TERI SAS



Head of the Department

Department of Energy and Environment

TERI School of Advanced Studies New Delhi

### CERTIFICATE

This is to certify that **Shivangi Dhingra** has carried out her major project in partial fulfillment of the requirement for the Degree of **Master of Technology in Urban Development and Management** on the topic **Tactical Interventions for Safer and Pedestrian-Friendly Streets: Case of Sadar Bazaar, Gurugram** during February 2021 to June 2021. The project was carried out at the **India Resources Trust (World Resources Institute India)**.

This dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 29th June 2021

*Priyanka*  
29/06/21

Ms. Priyanka Sulkhlan  
Manager, Sustainable  
Cities and Transport  
World Resources Institute India

*Deepthi*

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Professor, Department of  
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TERI School of Advanced Studies

*Kamna Sachdeva*

Dr Kamna Sachdeva  
Associate Professor and Head of the Department  
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**CERTIFICATE**

This is to certify that **Swapna Chakraborty** has carried out her major project in partial fulfillment of the requirement for the degree of Master of Technology in Urban Development and Management on the topic **Assessment of Interlinkages between Socio-Demographical, Housing and Employment Variables: A Study of Slum Households in Bangalore** during February 2021 to June 2021. The project was carried out at **Fields of View (FOV), Bangalore**.

The Dissertation embodies the original work of the candidate to the best of our knowledge.

Date: 28/06/2021



Mr. Yashwin Iddya  
Researcher  
Fields of View, Bangalore



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Department of Energy and Environment  
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## CERTIFICATE


This is to certify that Viral Dipakbhai Joshi has carried out her major project in partial fulfillment of the requirement for the Degree of Masters of Technology in Urban Development and Management on the topic 'India's Transition to Electric Mobility: Threats and Solutions' during January 2021 to May 2021. The project was carried out at the Center for Sustainable Mobility, TERI.

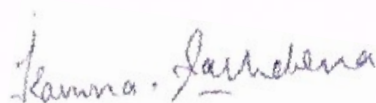
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Date: June 28, 2021

  
Mr. Sharif Qamar  
Fellow and Area Convener  
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