

Government College of Technology, Coimbatore – 641013

(An Autonomous Institution affiliated to Anna University, Chennai) SELF-STUDY REPORT

CRITERION 3 Research, Innovations and Extension

Key Indicator 3.7: Collaboration

3.7.1 Number of functional MoUs /linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

DECLARATION

This is to certify that the supporting documents uploaded in Institution website and the respective links are true to the best of my knowledge and belief. All documents and links are verified and authenticated.

Head of the Institution

(Seal and sign of the Principal)

Government College of Technology, Coimbatore-13

List of MoUs and Outcomes in the Year 2020

S.No	Name of the collaborating agency	Year of signing	Duration	Activities	Page no.
1	Irrigation Management Training Institute (IMTI), Trichy	2020	5 Years	Resource Person for World Water day Webinar	3
2	M/s. INFINUSTECH, Structural Engineering Consultancy Firm, Coimbatore	2020	3 Years	Industrial Project Guidance	7
3	M/s. S G Structural Engineers, Civil and Structural Engineering Firm, Coimbatore	2020	3 Years	Industrial Project Guidance	18
4	Sustainable Communities India Private Limited	2020	2 Years		23
5	Regional Academic Centre for Space (RAC-S) - NITK	2020	10 Years		27



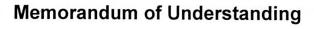
தமிழ்நாடு तमिलनाडु TAMIL NADU நாகள்ள கைக்காக் 85AB 626663

முத்திரைத்தாள் விறபனையாளர் உரிமம் எண். 10814 / ஆ 1/2000 / ஓ 2

முத்திபாளையம். தொண்டாமுத்தூர், கோவை - 641 109, தமிழ்நாடு.

15.12.2020

The principal G.C. T coimbadore.



This Memorandum of Understanding is entered into on this 17 Day of December 2020

Between

rrigation Management Training Institute, (Water Resource Department, P.W.D, Government of Tamilnadu, Thuvakudi, Trichy) represented by Chief Engineer PWD & Director General, IMTI, Thuvakudi, Trichy repugnant to the context or meaning there of will include its successors-in-interest and assigns on the first part.

And

Institute, Thuvakudi, Trichy - 620 015.

Govt. College of Technology Coimbatore - 641 013

The Government College of Technology, located at Thadagam Road, Coimbatore, Tamilnadu represented by The Principal, Government College of Technology (GCT) herein after referred to as The Principal GCT, which unless repugnant to the context or meaning thereof, will include its successors-in-interest and assigns on the second part.

This MOU is signed and extended with the objectives of strengthening better industry-academic linkages for mutual benefits. The two parties will jointly work towards the common cause with definite vision and missions of long and short-term perspectives.

CLAUSES OF MOU

- 1. Relationships: Both the parties will strive to build long term relationship by involving one another as the guest of honours at all functions like Technical Seminars, Symposiums, Cultural and Promotional events.
- 2. Research: Primary purpose of this MOU itself is to involve in the advanced research at their own areas of operation of both parties. Accordingly any supports by way of Technical Consultancy (Expertise), literature supports (library, advanced software's in computer labs), infrastructure supports (Laboratories and workshops) and other logical supports may be availed to the extent of maintaining secrecy and intellectual property rights of both parties. Subsidiary agreements may be made wherever required. The Principal GCT shall provide all infrastructure facilities, labs and workshops. However the cost involved if any on consumables and labours in conducting experiments shall be charged at actual mutually agreed in advance. Any significant outcome of any joint research or development activities, arising out of project works shall have equal right to patent the development with due acknowledgement of other party's contribution.
 - 3. Consultancy: The dedicated faculties on both sides (party) shall act as the consultant / outsourcer and Technical supporter to one another at all technical, administrative, management and R & D areas. The knowledge sharing of the expert members are available at free of cost at the regular college / office functioning hours. The consultancy services of the college, if any may be charged accordingly.
 - **4. Human Resource & Training:** Human resources at both sides shall be strengthened by way of conducting Workshops/Lectures/Study camps at regular intervals. Both parties shall organize regular / routine training programme to various levels of Technical and managerial manpower of all discipline at a very nominal costs on mutually agreeable basis at their respective premises.

DIRECTOR GENERAL Irrigation Management Training Institute, Thuvakudi, Trichy - 620 015. PRINCIPAL
Govt. College of Technology
Colmbatore - 641 013

5. Student Project: IMTI shall permit the GCT students for any of their R & D activities at their works place under various schemes like in-plant training, minor/major projects etc. to get benefits on both sides equally. IMTI will be invited as resource person during institutional programs like training, technical seminars and symposium etc.

Disclaimer: This MOU does not compel or force any party either fully or partly to perform a function or fulfill any commitment agreed upon on best interests. All that agreements made between the parties are only obligatory and not in any way mandatory. It is further made abundantly clear that no third party mediation or arbitration is earnest or warranted. Both the parties shall however meet periodically once in a year alternatively at their respective premises to review the MOU and modify the scope of works if any, depending on the special demands and needs, arises then and there.

The tenure of this MOU is valid for 5 years from the date of signing.

Dated on this 17th Day of December 2020 we sign

Signatory of IMTI
Irrigation Management Training Institute

Signatory of the Head
Department of Civil Engineering
Government College of Technology
Coimbatore – 641 013

Chief Engineer PWD & Director General,
Irrigation Management Training Institute,
(Water Resource Department,
P.W.D, Government of Tamilnadu)
Thuvakudi, Trichy

The Principal
Government College of Technology
Coimbatore - 641 013

Witness

S. SYED HAMD IBRAHIM

IMTE, TRICHY

Witness e Numara

Dr C. MEIARAJ, Ph.D.,

Professor (CAS).

Department of Civil Engineering, Govt College of Technology, College - 641 013

GOVERNMENT COLLEGE OF TECHNOLOGY COIMBATORE-13

DEPARTMENT OF CIVIL ENGINEERING CELEBRATES



2023

CHIEF GUEST:

EVENTS:

- 1. Poster Making
- 2. Short film



Er.S. SIVALINGAM

SUPERINTENDING ENGINEER PWD(WRO), Avinashi.

TOPIC:

Water: Are we really smart enough?!

Time: 10:30 am Venue: Civil Seminar Hall Date: 27th March

CONVENOR:

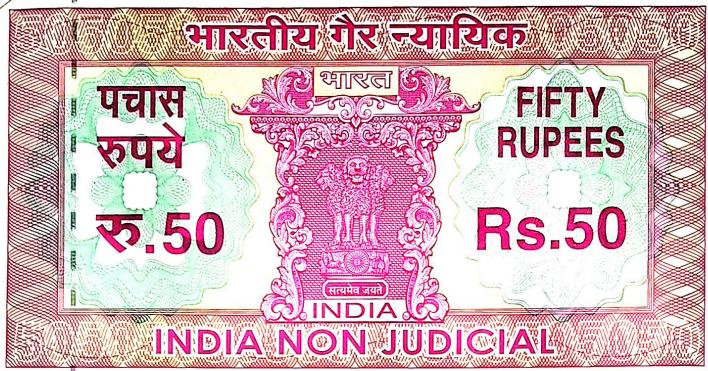
PATRON:

COORDINATORS:

Dr.R.Thenmozhi, HOD,Civil.

Dr.K. Manonmani, PRINCIPAL.

Dr.C. Meiaraj Mr.S. Makesh Kumar



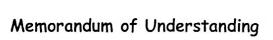
தமிழ்நாடு तमिलनाडु TAMILNADU

12.9.2020

Principal GICT

® 50 BA 344629

பாகுமோகன் (எ) மு.ந. மோகன்நாஜ் முத்தீரைத்தாள் விற்பனையாளர் உரிமம எண். 10814 / ஆ 1/2000 / ஓ 2 முத்தீபாளையம். தொண்டாமுத்தூர். கோவை - 641 109. தமிழ்நாடு.



Between

Government College of Technology, Coimbatore

&

M/s. INFINUSTECH,

Structural Engineering Consultancy firm, Coimbatore

This memorandum of Understanding (MoU), executed at Coimbatore this 14th Day of SEPTEMBER 2020 between M/s. INFINUSTECH,Structural Engineering Consultancy firm , 2, Siva Nagar (Aiswarya Nagar), P N Pudur, Coimbatore - 641041 (Hereafter referred to as INFINUSTECH), represented by Er. J. Premkumar, Principal Consultant.

AND

Government College of Technology, Coimbatore - 641013, an academic Institution offering quality education in different areas, (Hereafter referred to as GCT) represented by Dr. P. Thamarai, the Principal.

WHEREAS.

- INFINUSTECH is one of leading Structural Engineering consultancy firm, founded
 in 1999 by Er. J. Premkumar and it has specialized in design of all types of
 concrete and steel structures for the past 21 years. The firm has wholeheartedly
 involved in helping the needs of societies in terms of transparent professional
 services.
- GCT is a reputed institution which offers 9 Under Graduate Programs and 11 Post Graduate Programs in Engineering for the benefit of different target groups of students.
- The parties have mutually agreed to bring the familiarization of current industrial practices to the students of GCT.

NOW THIS MOU WITNESSETH AS FOLLOWS:

GCT and INFINUSTECH also agreed to carry out the following on mutually acceptable terms and conditions:

- Industrial Visits to the Construction sites undertaken by INFINUSTECH.
- · Guest Lectures by experts of INFINUSTECH.
- Joint seminars/Skill development programs/Workshops/Conferences
- INFINUSTECHallows the Civil Engineering students to undertake Mini
 Projects and Main Project Work, In-plant Training and Internship in their
 company.
- In turn, GCT has to extend the facilities available in the campus for organizing the technology up gradation programme like seminar, workshop and technical lectures and to train the design engineers about latest design concepts.

This MOU shall be valid for a period of Three years from the date of first herein above mentioned and shall be reviewed by both the parties for scope of work and progress made on an annual basis.

In witness whereof, the parties to this memorandum of Understanding have affixed their signatures on the day, month, year first mentioned above.

For Government College of Technology,

Coimbatore.

For INFINUSTECH

Structural Engineering

Consultancy Firm, Coimbatore.

Signature

Principal

Dr. P. Thamaral College of Technology

Principal

Date 14.09.2020

Signature

Er. J.Premkumar

Principal Consultant

Date 14/09/2020

Witness 1

Lentrom 1419/2020

Dr. D. PADMINI

Prof 4 HOD - Dept of Girl Engg

Crovt. college of Tech

Coimbatore-64/013

Witness 2

e-reciain Tu 9/2020

Broge sor CLAS) / Guil ENSS.

Govt. college q Technology, coimbature - 641013.

Witness 1

G. Bala Rangaraj

Slo. S. Gruna Sellaran

269, AL, Avathar Courne AP1,

Telegu Street, town had, Che-001 G. Bara rand

Witness 2

M. Sargeeth Kumar

Sto. R. Murugesan

19/A, Soi Ganapathy Nagar,

Civil Alexadram post, Cloe - 014.

M. Syn King.

DEPARTMENT OF CIVIL ENGINEERING (STRUCTURES) GOVERNMENT COLLEGE OF TECHNOLOGY

(An Autonomous Institution affiliated to Anna University) COIMBATORE - 641 013

18SEEE01 - DESIGN PROJECT

JUNE 2023

This is to certify that this project work entitled

PLANNING, ANALYSIS AND DESIGN OF G+5 STOREYED ELLIPTICAL SHAPED RESIDENTIAL BUILDING

is the bonafide record of project work done by

DHARNESHWAR R

71772271104

college

of M.E. (Structural Engineering) during the year 2022 - 2023

External Guide Er. J.PREMKUMAR M.E.,

Profect Guide Dr. K.REKHA, M.E. Ph.D., Programme Coordinator Dr. M. RAMA, M.E. Ph.D.,

Head of the Department Dr. R. THENMOZHI, M.E. Ph.D.,

Submitted for the Project Viva-Voce examination held on _____28.06.2023

Internal\⊈xaminer

External Examiner

ACKNOWLEDGEMENT

I take this opportunity to express my sincere gratitude to all those who have enabled me to complete this project successfully. It gives me immense pleasure to thank our respected Principal **Dr. K. Manonmani, Ph.D.**, Government College of Technology, Coimbatore for granting me permission to take this project.

I express my sincere thanks to **Dr. R. Thenmozhi, M.E., Ph.D.**, Professor & Head, Department of Civil Engineering (Structural Engineering) for her valuable suggestions for the completion of the project work.

I sincerely remit my due respect to my project guide Dr. K. Rekha, Ph.D., Associate Professor in Civil Engineering, for his encouragement and guidance throughout the project.

I sincerely remit my due respect to my external project guide

Er. J. Premkumar, M.E., Charted Engineer – Valuer, M/s Infinus Tech, for his encouragement and guidance throughout the project.

I extend my gratitude to my parents who have been a constant support to me with encouragement.

I thank all the faculty members and non-teaching staff of Department of CivilEngineering and my friends for their help in completing this project work.

DEPARTMENT OF CIVIL ENGINEERING (STRUCTURES) GOVERNMENT COLLEGE OF TECHNOLOGY

(An Autonomous Institution affiliated to Anna University)

COIMBATORE - 641 013

18SEEE01 - DESIGN PROJECT

JUNE 2023

This is to certify that this project work entitled

PLANNING, ANALYSIS AND DESIGN OF STILT + 3 FLOORS APARTMENT BUILDING

is the bonafide record of project work done by

VIJAYAVENDHAAN P

2271115

of M.E. (Structural Engineering) during the year 2022 - 2023

External Guide Er. J. PREMKUMAR, M.E.,

Project Guide
Dr. R. THENMOZHI, M.E., Ph.D.,

Programme Coordinator Dr. M. RAMA, M.E., Ph.D.,

Head of the Department Dr. R. THENMOZHI, M.E., Ph.D.,

Submitted for the Project Viva-Voce examination held on _____

Internal Examiner

External Examiner

ACKNOWLEDGEMENT

I take this opportunity to express my sincere gratitude to all those who have enabled me to complete this project successfully. It gives me immense pleasure to thank our respected Principal Dr. K. MANONMANI, M.E., Ph.D., Government College of Technology, Coimbatore for granting me permission to take this project.

I express my sincere thanks to **Dr.R.Thenmozhi**, **M.E.**, **Ph.D.**, **Professor** and Head, Department of Civil Engineering (Structural Engineering) for her valuable suggestions for the completion of the project work.

I extend my gratitude to my Programme coordinator Dr. M. RAMA, M.E., Ph.D., for her support and suggestion for completing this project work.

With deep sense of gratitude, we extend our earnest & sincere thanks my project guide **Dr.R.Thenmozhi**, **M.E.**, **Ph.D.**, Professor and Head of the Department, Department of Civil Engineering who is our light house in the vast ocean of learning with his inspiring kind guidance & encouragement to complete the project.

I pay my sincere respect to my external guide Er. J. PREMKUMAR, M.E., (Struc.) Chartered Engineer - Valuer, Infinustech, for his support extended towards me for completion of the project work

I extend my gratitude to my parents who have been a constant support to me with encouragement.

I thank all the faculty members and non-teaching staff of Department of Civil Engineering and my friends for their help in completing this project work.

DEPARTMENT OF CIVIL ENGINEERING (STRUCTURES) **GOVERNMENT COLLEGE OF TECHNOLOGY**

(An Autonomous Institution affiliated to Anna University) COIMBATORE - 641 013

18SEEE01 - DESIGN PROJECT

JUNE 2023

This is to certify that this project work entitled

PLANNING, ANALYSIS AND DESIGN OF R.C.C **INSTITUTIONAL BUILDING G+6**

is the bonafide record of project work done by

RUBESH K

74772271113

of M.E. (Structural Engineering) during the year 2022 - 2023

External Guide Dr.G.S. VENKATASUBRAMANI, M.E.Ph.D.,

Project Guide Dr. R. THENMOZHI, M.E. Ph.D., Programme Coordinator Dr. M. RAMA, M.E. Ph.D.,

Head of the Department Dr. R. THENMOZHI, M.E. Ph.D.,

Submitted for the Project Viva-Voce examination held on 23106/2023

Internal Examiner

External Examiner

ACKNOWLEDGEMENT

I take this opportunity to express my sincere gratitude to all those who have enabled me to complete this project successfully. It gives me immense pleasure to thank our respected Principal **Dr. K. Manonmani, M.E., Ph.D.,** Government College of Technology, Coimbatore for granting me permission to take this project.

I express my sincere thanks to my project guide **Dr. R. Thenmozhi, M.E., Ph.D.,** Professor and Head, Department of Civil Engineering (Structural Engineering) for her valuable suggestions, encouragement and guidance for the completion of the project work.

I express my sincere thanks to **Dr. M. RAMA**, **M.E.**, **Ph.D.**, Associate Professor and Programme coordinator, Department of Civil Engineering (Structural Engineering) for her valuable suggestions for the completion of the project.

I sincerely remit my due respect to my external project guide Dr. G. S. Venkatasubramani M.E., Ph.D., STRUCTURAL DESIGNER Founder-S.G STRUCTURALS, also his office staffs especially Er. Hitesh patel.M.E., Structural Engineer, for their encouragement and guidance throughout the project.

I extend my gratitude to my family who have been a constant support to me with encouragement.

I thank all the faculty members and non-teaching staff of Department of Civil Engineering and my friends for their help in completing this project work.

DEPARTMENT OF CIVIL ENGINEERING (STRUCTURES) GOVERNMENT COLLEGE OF TECHNOLOGY

(An Autonomous Institution affiliated to Anna University)

COIMBATORE - 641 013

18SEEE01 - DESIGN PROJECT

JUNE 2023

This is to certify that this project work entitled

PLANNING, ANALYSIS AND DESIGN OF G+6 STEEL INSTITUTIONAL BUILDING

is the bonafide record of project work done by

ATHIRA R.

71772271102

of M.E. (Structural Engineering) during the year 2022 - 2023

External Guide
Dr.G.S.VENKATASUBRAMANI M.E. PhD.,

Project Guide Dr. R. THENMOZHI, M.E. Ph.D.,

Programme Coordinator Dr. M. RAMA, M.E. Ph.D.,

Head of the Department Dr. R. THENMOZHI, M.E. Ph.D.,

Submitted for the Project Viva-Voce examination held on 23-06-2023

Internal Examiner

External Examiner

ACKNOWLEDGEMENT

I take this opportunity to express my sincere gratitude to all those who have enabled me to complete this project successfully. It gives me immense pleasure to thank our respected Principal **Dr.K.Manonmani**, **Ph.D.**, Government College of Technology, Coimbatore for granting me permission to take this project.

I express my sincere thanks to my project guide **Dr.R. Thenmozhi**, **Ph.D.**, Professor and Head, Department of Civil Engineering (Structural Engineering) for her valuable suggestions, encouragement and guidance for the completion of the project work.

I express my deepest gratitude to Dr.M.Rama,M.E.Ph.D.,Associate professor, our programme coordinator for her full support for my project proceedings.

I sincerely remit my due respect to my external project guide Dr.G.S.Venkatasubramani,M.E,Ph.D.,STRUCTURAL DESIGNER Founder-S.G STRUCTURALS, also his office staffs especially Er. Hitesh patel.M.E., Structural Engineer,for their encouragement and guidance throughout the project.

I extend my gratitude to my family who have been a constant support to me with encouragement.

I thank all the faculty members and non-teaching staff of Department of Civil Engineering and my friends for their help in completing this project work.



தமிழ்நாடு तमिलनाडु TAMILNADU

12.9.2020

Principal GCT

BA 344627

ராஐமோகள் (ஏ) மு.ந். மோகன்றாஜ் முத்திரைத்தாள் விற்பனையாளர் உரிமம் எண். 10814 / ஆ 1 / 2000 / ஓ 2 முத்திபாளையம். தொண்டாமுத்தூர், கோவை – 641 109, தமிழநாடு.



Memorandum of Understanding

Between

Government College of Technology, Coimbatore

ď

M/s. S G Structural Engineers,

Civil and Structural Engineering Consultancy firm, Coimbatore

This memorandum of Understanding (MoU), executed at Coimbatore this 14th Day of September 2020between M/s. S G Structural Engineers, Civil and Structural Engineering Consultancy firm, No. 53, M. A. Palani Swamy Street, Saibaba Colony, KK Pudhur Post, Coimbatore 641038 (Hereafter referred to as S G Structural Engineers), represented by Dr. G. S. Venkatasubramani, Managing Director.

AND

Government College of Technology, Coimbatore - 641013, an academic Institution offering quality education in different areas, (Hereafter referred to as GCT) represented by **Dr. P. Thamarai**, the Principal.

WHEREAS,

- S G Structural Engineers is one of leading Civil and Structural Engineering consultancy firm, founded in 1991 by Dr. G. S. Venkatasubramaniand it has specialized in design of all types of concrete and steel structures for the past 29 years. The firm has wholeheartedly involved in helping the needs of societies in terms of transparent professional services.
- GCT is a reputed institution which offers 9 Under Graduate Programs and 11 Post Graduate Programs in Engineering for the benefit of different target groups of students.
- The parties have mutually agreed to bring the familiarization of current industrial practices to the students of GCT.

NOW THIS MOU WITNESSETH AS FOLLOWS:

GCT and S G Structural Engineers also agreed to carry out the following on mutually acceptable terms and conditions:

- Industrial Visits to the Construction sites undertaken by 5 G Structural Engineers.
- Guest Lectures by experts of S G Structural Engineers.
- Joint seminars/Skill development programs/workshops/conferences.
- 5 G Structural Engineersallows the Civil Engineering students to undertake Mini Projects and Main Project Work, In-plant Training and Internship in their company.
- In turn, GCT has to extend the facilities available in the campus for organizing the technology up gradation programme like seminar, workshop, technical lectures and to train the design engineers about latest design concepts.

This MOU shall be valid for a period of Three years from the date of first herein above mentioned and shall be reviewed by both the parties for scope of work and progress made on an annual basis.

In witness whereof, the parties to this memorandum of Understanding have affixed their signatures on the day, month, year first mentioned above.

For Government College of Technology, Coimbatore.

For S G Structural Engineers Civil and Structural Engineering Consultancy Firm, Coimbatore.

Principal

Dr. P. Thamaravernment College of Technology Coimbatore -641 013

Principal

Date 14.09.2020

Managing Director

Signature

Date 14.09.202

Dr. G. S. Venkatasubrand

Witness 1

Leahini 14 9/2020

Dr. D. DADRAINI

Prof & HoD. Dept of Civilengy

GOVY college of Technology

Coimbatore. 641013

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Dlo. SVANAPPAN

NO. 2/864, BETTATHAPURAM,

KIARAMADAI POST.
COIMBATORE - 6416

Witness 2

PURESH-M.

NO.09 MADHUMIDHA ILLAM

TVS NAGAR, PMRNAGAR

COIMBATORD. 641025





Dr. G.S. VENKATASUBRAMANI

M.E. (Struct.), Ph.D., MI Struct. E., C.Engg., MICI., FIV, FIE (1), PE., Consulting Structural Engineer, Professional Engineer.

Chartered Civil Engineer & Approved Valuer

23.06.2023

TO WHOMEVER IT MAY CONCERN

This is to certify that Mrs.Athira R (Reg no. 71772271102) 1st year M.E. Structural Engineering, student of Government College of Technology, has successfully completed her project PLANING ANALYSIS AND DESIGN OF G+6 STEEL INSTITUTIONAL BUILDING under our guidance during February 1,23 to May 31, 2023.

All the necessary inputs were provided from our side for executing the project streamline. We found her sincere, hardworking and result oriented.

We wish her the very best for her future endeavors.

Dr.G.S.VENKATASUBRAMANI.

Ph.D.,ME(Struct),FIE,C.Engg (I),PE.,
MISTE,MI Struct E. MICL,FIV
Consulting Structural Engineer, Professional Engineer,
Chartered Civil Engineer & Approved Valuer
53, M.A. Palaniswamy Street,
K.K. Pudur, Colmbature - 641 038.

53, M.A Palaniswamy Street, Saibaba Colony, K.K Pudur (PO), Colmbatore - 641 038.
Tel: 0422 - 3552321, 2450245, 2453323, E-mail: profgsv1968@gmail.com Web: www.sgstructurals.com



Dr. G. S. VENKATASUBRAMANI

M.E. (Struct.), Ph.D., M.I. Struct. E., C. Enryg., Mi(L), FLV, FLE (L), Pt. Consulting Structural Engineer, Professional Engineer.

Obartered Civil Engineer & Approved Valuer.

23.06.2023

TO WHOMEVER IT MAY CONCERN

This is to certify that Mr.Rubesh K (Reg no. 71772271113) 1st year M.E. Structural Engineering, student of Government College of Technology, has successfully completed his project PLANING ANALYSIS AND DESIGN OF R.C.C INSTITUTIONAL BUILDING G+6, under our guidance during February 1,23 to May 31, 2023.

All the necessary inputs were provided from our side for executing the project streamline. We found him sincere, hardworking and result oriented.

We wish him the very best for his future endeavors.

Dr.G. S. METIKATASUET I MANIL.
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53, M.A. Palacis Marry Street. K.K. Pudur, Comitatore 641 038

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Sustainable Communities India Private Limited (SCI)

AND

Government College of Technology, Coimbatore

ON

Conducting short term capacity building program for students to enhance pool of local skilled professional on aspects related to energy management in textile industries

Principal
Government College of Technology
Coimbatore -641 013.

Memorandum of Understanding ('MoU')

This MoU is made and entered into on the Olday of June 2020 (hereinaster the "Effective Date"), at New Delhi

BY and BETWEEN

Sustainable Communities India Private Limited, a consulting company registered under the Companies Act 2013, hereinafter referred to as "SCI", is a wholly owned subsidiary of Institute for Sustainable Communities, which is an organization described in Section 501(c)(3) and in Section 509(a)(1) or 509(a)(2) of the Internal Revenue Code of 1986, United Stated of America, hereinafter referred to as "ISC" (which expression shall unless it be repugnant to the context or meaning thereof, mean and include its successors in office and assigns) of the other part:

AND

Government College of Technology, Coimbatore hereinafter referred to as "GCT, CBF" (which expression shall unless it be repugnant to the context or meaning thereof, mean and include its successors in office and assigns) of the first part;

(Hereinafter referred to individually as a "Party" or together as "Parties")

WHEREAS

- 1. Government College of Technology, Coimbatore is one of the Premier Institutions of Tamilnadu operating under Directorate of Technical Education Chennai. The Institution is celebrating its Platinum Jubilee (75th Year, 1945 2020) and is ranked in the top 100 in the NIRF ranking for the year 2019. GCT, CBE offers nine UG Programmes and 11 PG programmes in Engineering. In addition it supports the Full Time and Part Time research. All the departments have excellent research facilities. The Electrical Engineering department has a Centre of Excellence in "Alternate Energy Research" and the department of Civil Engineering has a centre of excellence in "Environmental Engineering". The Students of top merit in Tamilnadu only get an opportunity to enrol themselves in GCT, Coimbatore, GCT boasts of a rich Alumni strength of more than 25,000 contributing immensely for the development of the present day Students. The Institution aspires to be ranked in the top 50 in NIRF ranking with the support of motivated Faculty and Dynamic Students.
- SCI is a consulting organization working to promote sustainable manufacturing practices in the industrial sectors manufacturing in India, including promoting energy efficiency and clean energy practices.
- 3. The Parties express their mutual agreement to work jointly for the achievement of common goals and objectives related to enhancing pool of local experts on aspects related to energy management practices for textile industries by conducting short term capacity building courses for their graduating students of relevant domains.

P. H

- 4. Government College of Technology, Coimbatore, by virtue of its credentials, degree courses and program being offered and networking etc. in this field may support SCI in the, but not limited to, in the following areas as deemed fit;
 - a. Conduct short terms courses for its graduating students from different courses every year for enhancing their technical skills on aspects related to energy management practices in textile industries.
 - b. Conduct pre and post test for the participating students to ensure learning from the capacity building programs.
 - c. Document the proceedings of the program in the form of brief impact report as per the template provided by SCI and share with SCI.
 - d. Prepare data base of participants attended the training program and provide certificates to participants as per the template provided by SCI
 - e. Nominate 3-4 faculty members from relevant domains for the Training of Trainer (ToT) program to be organized by SCI.
 - f. Promote networking with local industry associations and industries to explore internship opportunities for their students
 - g. Support any other activity related to capacity building on energy management in the cluster as mutually discussed and agreed upon.
- 5. SCI, as a part of their project specific agenda, may provide all necessary support as follow for smooth uptake of all suggested activities
 - a. Provide training module, relevant assessment documents and templates on training and capacity building activities for students in the cluster
 - b. Provide Standard Operating Procedure (SoP) document to academic institution which includes step-wise procedure for conducting these short-term training program including the required documentation templates
 - c. Conduct Training of trainer (ToT) programs for the selected faculty members on aspects related to energy management to enhance their skills for conducting such training programs in future
 - d. Provide technical support related to curriculum update from time to time
 - e. Any other assistance as mutually discussed and agreed upon

'I'HEREFORE, the Parties intend to work together and collaborate in compliance with the following clauses:

- 1. The Parties agree to discuss and finalize collaboration opportunities (immediate and in long-term) with respect to SCI's mandate and <Name of the association>expertise and experience in implementation of energy management related programs
- 2. Notwithstanding the use of the terms "Partners" and "Partnership", the Partiesagree that they are not entering into a Legal Partnership, joint venture or othersuch business arrangement. The parties shall be free to work independently withother organizations.
- 3. This MoU is valid for a period of two (02) years from the Effective Date and can be extended by mutual consent.
- 4. If at any time one Party is unable or unwilling to continue with the MoU, then the concerned Party agrees to notify the other promptly and on completion of one (01)month after such



X

notification, this MoU will be terminated, without any claim orliability arising under the MOU.

5. Branding

a) License for use of Logo.

Government College of Technology, Coimbatore and ISC agree to grant each other a non-transferable, non-exclusive license, for the term of this Agreement and on and within their website (Site) or Co-Branded website (collectively "Sites"): (i) to copy, use, publicly display and transmit their logo in connection with performance of this Agreement; and (ii) to establish a Link to other party's Sites.

b) Marks.

Without conveying any right, title or interest, Owner and Provider hereby agree that either party may make accurate informational references to the other party's trade names, trademarks or service marks (collectively "Marks") in connection with performance of this Agreement, including without limitation, references in promotional materials, media-releases, notices and advertisements for their Sites, subject to the condition that either party shall promptly cease any use of any Mark owned by the other party upon: (i) termination or expiration of this Agreement for any reason; or (ii) receipt of notice from the other party of abandonment of or dispute relating to any such Mark (except that neither party shall be required to alter any materials first published prior to the date of receipt of such notice). In the event that either party makes references to the other party's Marks that are inaccurate or otherwise incorrect, then the owner thereof may notify the other party of the necessary correction(s), and the party receiving such notice shall implement such corrections as soon as reasonably practicable.

- 6. Parties agree that, any modification or amendment to this MOU shall be valid only, if executed by a written document duly signed by authorized representative of the Parties.
- 7. The Parties shall endeavour to resolve any dispute, claim or controversy that may arise out of or in connection with this MoU or the application, implementation, validity, breach or termination thereof through friendly consultations between them. Any dispute, which could not be resolved amicably, shall be settled as per the provisions of Arbitration & Conciliation Act of India, 1996 and venue of Arbitration shall be Tirupur.
- 8. The MoU shall be subject to laws of India.

IN WITNESS WHEREOF, the Parties have executed this MoU and caused it to be effective as of the day, month and year first written above.

Principal
Government College of Technology
College of Technology,
College of Technology,

For and on behalf of Sustainable Communities India Pvt. Ltd.

Page 4

WITNESS:

DY. V. PRASANNA MODERTY

PROFESSOR/EEE (LAS)

GCT, GIMBATORE-13

28/08/202



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL MANGALURU- 575 025 (D.K.)

Prof. U Shripathi Acharya Dean (Research & Consultancy)

No.123/NITK/DRC/MoU

Date: 15th December 2020

Prof. U. Shripathi Acharya Dean (R&C) and Coordinator of RAC-S at NITK, Surathkal

To,

Dr.V.Prasanna Moorthy M.E., Ph.D., Professor and Head of Department, Electronics and Instrumentation Engineering, Government College of Technology, Coimbatore - 641 013.

Dear Prof. Moorthy,

Sub: Copy of MoU for participating in the RAC-S set up at NITK, Surathkal

I am sending the second copy of the MoU to be signed by the Heads of our Institutions along with this covering letter. It has been signed by our Director. I request you to kindly obtain the signature of your Principal and retain the document with you. It is exactly the same document that was shared with you in soft copy form. After this all the formalities to be completed for the participation of GCT-Coimbatore would be complete. Dr. M. A Paul, Associate Director, ISRO-RESPOND has informed me that the ISRO-RESPOND document would be shared with us in January 2020. I will make it available to you as soon as I receive it. After this is made available, we can plan for the second round of submissions to ISRO-RESPOND.

Yours sincerely,

U. Safoat 15/12/2000

(U. Shripathi Acharya)

Post Srinivasnagar, Mangalore-575025

Memorandum of Understanding (MoU)

between

Regional Academic Centre for Space, National Institute of Technology Karnataka, (NITK), Surathkal

and

Government College of Technology, Coimbatore (GCT-C)

on

Funding received by Collaborating Institute (GCT-C) through RAC-S, NITK, Surathkal

PREAMBLE

The Indian Space Research Organization of the Department of Space, Government of India, Bengaluru (referred to hereinafter as ISRO) and National Institute of Technology Karnataka, Surathkal (referred to hereinafter as NITK) have set up an ISRO - NITK - Regional Academic Centre for Space (referred to hereinafter as RAC-S) at NITK, Surathkal, to act as a facilitator and enabler of space technology activities and to become an ambassador for the capacity building, Awareness creation and R&D activities of ISRO in the region. A MoU was signed between the NITK, Surathkal and ISRO Bangalore, which governs the activities and management of RAC-S. The activities of the RAC-S will be guided and managed by two committees namely the Joint Policy and Management Committee (JPMC) and the Regional Coordination Committee (RCC).

The JPMC will be chaired by chaired by Director, NITK and Co-Chaired by Director, Capacity Building Program Office (CBPO), ISRO and consist of members from both ISRO and NITK. It will be the responsibility of the JPMC to guide the RAC-S. The Regional Coordinator of the RAC-S shall be the Convener of the JPMC.

JPMC shall plan the promotional activities including the research programmes of common interest and periodically review such research programmes and related activities. JPMC shall be responsible for recommending the annual budget of RAC-S commensurate with the programmatic requirements.

The Regional Coordination Council (RCC) will be set up with a Dean, NITK, or a senior professor from NITK (To be selected by Director NITK for a period of Two years) as Chairperson. It will comprise of members from NITK and the associating academic institutes. This committee will be constituted by Director, NITK to identify the projects and other activities to be taken up under the RAC-S from the associating institutes. The Regional Coordinator of the RAC-S shall be the Convener of the RCC. The identified R & D projects shall be sent to the concerned ISRO/DOS Centers to get the comments/

recommendations from the center before putting up the same to JPMC for its approval. Short term R & D projects where B.Tech & M.Tech. students can participate, shall be reviewed by RCC and the selected projects shall be put up to JPMC for its approval with an intimation to RESPOND & AI, CBPO Programme Office, ISRO HQ. The RCC shall meet twice a year or as frequently as required. Long term projects (more than 1 year) should also be reviewed by RCC. However, before putting them to JPMC for approval, projects shall be forwarded for expert's comments/recommendations from ISRO.

Government College of Technology, Coimbatore (GCT-C has joined RAC-S as one of the collaborating Institutes of the region. Therefore, faculty members of GCT-C can submit various category of projects for possible funding to RAC-S. These projects would be evaluated as per the norms of RAC-S for possible funding and if any project is approved for funding, then the funds would be distributed to corresponding institute as per the RAC-S norms. This MoU is signed between RAC-S and GCT-C on the appropriate usage of such funds as and when received by the GCT-C through RAC-S. The roles and responsibilities of the collaborating institutes (GCT-C and NITK) under the ambit of the RAC-S are detailed in the articles listed below.

ARTICLE 1

- 1.1 It would be the responsibility of GCT-C to provide all the required support such as infrastructure of the Institute, space and time required to the faculty, students and staff members involved in the research projects/activities related to RAC-S.
- 1.2 Projects shall be of two types. Short term projects for B.Tech. and M.Tech students, of up to one year duration. Long term R & D projects (More than 1 year duration) preferably leading to Ph.D.

 Short Term Projects: 3rd Year or 4th year B.Tech. students or M.Tech students shall participate in the short term research projects of less than one year duration. Students from NITK and associate institutes (A total of up to 40 numbers) shall take up this assignment every year. Up to three students can join in each project. The Principal Investigator shall be a faculty of the respective institute. The proposals will be submitted by the faculty of the respective institute and he/ she shall be responsible for budget management. The selection of the students for the projects shall be done by the respective institute. The required facility for carrying out the project, travel support (field work, attending conferences etc, second AC fare) shall be provided under the scheme. Initial evaluation of these projects shall be carried out by RCC and put up for JPMC's approval.
- 1.3 The students, who have cleared NET/GATE or equivalent qualification shall be eligible for Research Fellowship as per RESPOND JRF/SRF Scheme. If the student is already getting any stipend, then the total emoluments should not exceed the RESPOND JRF/SRF eligibility. Students who have not cleared NET/GATE and selected for the projects shall not be eligible for fellowship. Initial evaluation of these

- projects shall be carried out by RCC and put up for the approval of the Joint Program and Management Committee (JPMC).
- 1.4 Long Term R & D Projects, preferably leading to Ph.D Programme (More than 1 year duration): NITK and other associated Institutes shall also identify R & D projects of relevance to space programme of one to three years duration. In such projects, the principal investigator of the project shall be from the associating institutes and the Co-PI can be from NITK or vice versa. The PI shall be responsible for the budget management of the project. There will be provision for JRF and SRF in these projects as per RESPOND norms. Candidates, who have cleared NET/GATE or equivalent qualification from all over the country are eligible for RESPOND JRF /SRF and carry out their Ph.D programme. If the student is already getting any stipend, then the total emoluments should not exceed the JRF/SRF eligibility. Initial evaluation of these projects shall be carried out by RCC and the selected projects to be forwarded for expert's comments/recommendations from ISRO, before projecting it before JPMC for its approval.
- 1.5 Funds for any research project/activity would be provided to GCT-C as per the RAC-S norms. It would be responsibility of administration to ensure that the funds are only used for the purpose for which they have been provided. Funds should not be diverted, even for short term, for any other purpose than the proposed research project/activity related to RAC-S.
- 1.7 Any interest earned on the funds provided to GCT-C by the RAC-S shall become part of that fund only and shall not be used for any other purpose.
- 1.8 Sanction and utilization of the grants released for a particular project shall be in accordance with the applicable financial rules of Government of India and release of funds shall be governed by the terms and conditions specified in the sanction orders.
- 1.9 Such funds must be utilized as per the Government of India/ ISRO/RAC-S guidelines. Proper documentation must be maintained by GCT-C.
- 1.10 At the end of research project/activities related to RAC-S, any unspent balance must be returned to RAC-S along with interest earned on the same.

ARTICLE 2

GENERAL TERMS

- 2.1 The Principal or his/ her nominee of GCT-C shall submit to RAC-S, the performance and outcome report annually on the activities related to RAC-S with necessary financial and technical information as may be required.
- 2.2 Any publication, document and / or paper arising out of such projects or any other items/ document would be governed by RAC-S MoU signed between NITK, Surathkal and ISRO Bangalore.

ARTICLE 3 INTELLECTUAL PROPERTY RIGHTS

3.1 Any intellectual property rights or such information knowledge being able to sustain or create any such right arising out of the proposed project/activities related to RAC-S would be governed by RAC-S MoU signed between NITK, Surathkal and ISRO Bangalore. Each point related to IPR of the MoU would be applicable to GCT-C for the research projects/activities related to RAC-S.

ARTICLE 4

MODIFICATION OR AMENDMENT

4.1 The party to this MoU may with mutual written consent of the other party modify or amend the provision (s) of the MoU in order to remove any difficulty regarding execution of the provision of this MoU.

ARTICLE 5

DISPUTE SETTLEMENT

- 5.1 Any or all disagreements/differences of opinion/disputes regarding the interpretation of the provisions of this Memorandum of Understanding shall be resolved by mutual consultation by the signatories and if necessary, in consultation with Department of Legal Affairs, ISRO.
- 5.2 No payments owing to either ISRO or RAC-S by the other shall be withheld pending resolution of any differences of opinion, unless such payment is the subject of the dispute.

ARTICLE 6

APPLICABLE LAWS AND INTERPRETATIONS

6.1 This Memorandum of Understanding (MoU) shall be governed in terms of the Indian laws including procedure established by law i.e rules, regulations and scheme framed thereunder and intended to interpret and regulate accordingly

ARTICLE 7

TENURE OF THE MOU

7.1 The tenure of this Memorandum of Understanding shall be Ten (10) years from the date of signing of this MoU. This MoU would cease to exist from the date, GCT-C withdraws from RAC-S or is removed from the list of collaborative institutes as per the norms of RAC-S. Unless opted otherwise by either of the signatory to this MoU, the tenure shall be renewed automatically for a further period of Five (5) years.

In WITNESS WHEREOF the undersigned, duly authorized thereto, have signed this Memorandum of

Understanding. Done at. NITK, .. day of 2020 in two originals.

National Institute of Technology Karnat Surathkal, P.O. Srinivasnaga.

MANGALORE-575025

Principal

Government College of Technology

Ceimbatore -641 013.

(National Institute of Technology Karnataka, Surathkal) (Government College of Technology, Coimbatore)

Witness:

1. Signature

Name: Prof. Jagannatha Nayak. Designation: Dean (Student Welfare)

Affiliation: NITK, Smathkal

2. Signature : 21 - Snipat Signature : AP/E/E

Name : Prof. U. Shripathi Aday Name : C. MAR

Designation: Dean (Rucard and Consultan Wesignation : AP/E/E

Affiliation: NITK, Smathhal

Signature

Name

Designation Affiliation

Affiliation

. C. MARIMUTHU



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL MANGALURU- 575 025 (D.K.)

Prof. U Shripathi Acharya Dean (Research & Consultancy)

No.123/NITK/DRC/MoU

Date: 15th December 2020

Prof. U. Shripathi Acharya Dean (R&C) and Coordinator of RAC-S at NITK, Surathkal

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Understanding. Done at. NITK. ...day of 2020 in two originals. Principal National Institute of Technology Karnat Government College of Technology Surathkal, P.O. Srinivasnaga. MANGALORE-575025 Ceimbatore -641 013. (National Institute of Technology Karnataka, Surathkal) (Government College of Technology, Coimbatore) Witness: 1. Signature Signature Name: Prof. Jagannatha Nayak. Designation: Dean (Student Welfare) Name Designation Affiliation: NITK, Smathkal Affiliation C. MARIMUTHU 2. Signature : 21 - Snipat Signature : AP/E/E

Name : Prof. U. Shripathi Aday Name : C. MAR

Designation: Dean (Rucard and Consultan Wesignation : AP/E/E

Affiliation

Affiliation: NITK, Smathhal

In WITNESS WHEREOF the undersigned, duly authorized thereto, have signed this Memorandum of

MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

Sustainable Communities India Private Limited (SCI)

AND

Government College of Technology, Coimbatore

ON

Conducting short term capacity building program for students to enhance pool of local skilled professional on aspects related to energy management in textile industries

Principal
Government College of Technology
Coimbatore -641 013.

Memorandum of Understanding ('MoU')

This MoU is made and entered into on the 01day of June 2020 (hereinafter the "Effective Date"), at New Delhi

BY and BETWEEN

Sustainable Communities India Private Limited, a consulting company registered under the Companies Act 2013, hereinafter referred to as "SCI", is a wholly owned subsidiary of Institute for Sustainable Communities, which is an organization described in Section 501(c)(3) and in Section 509(a)(1) or 509(a)(2) of the Internal Revenue Code of 1986, United Stated of America, hereinafter referred to as "ISC" (which expression shall unless it be repugnant to the context or meaning thereof, mean and include its successors in office and assigns) of the other part:

AND

Government College of Technology, Coimbatore hereinafter referred to as "GCT, CBF" (which expression shall unless it be repugnant to the context or meaning thereof, mean and include its successors in office and assigns) of the first part;

(Hereinafter referred to individually as a "Party" or together as "Parties")

WHEREAS

- 1. Government College of Technology, Coimbatore is one of the Premier Institutions of Tamilnadu operating under Directorate of Technical Education Chennai. The Institution is celebrating its Platinum Jubilee (75th Year, 1945 2020) and is ranked in the top 100 in the NIRF ranking for the year 2019. GCT, CBE offers nine UG Programmes and 11 PG programmes in Engineering. In addition it supports the Full Time and Part Time research. All the departments have excellent research facilities. The Electrical Engineering department has a Centre of Excellence in "Alternate Energy Research" and the department of Civil Engineering has a centre of excellence in "Environmental Engineering". The Students of top merit in Tamilnadu only get an opportunity to enrol themselves in GCT, Coimbatore, GCT boasts of a rich Alumni strength of more than 25,000 contributing immensely for the development of the present day Students. The Institution aspires to be ranked in the top 50 in NIRF ranking with the support of motivated Faculty and Dynamic Students.
- SCI is a consulting organization working to promote sustainable manufacturing practices in the industrial sectors manufacturing in India, including promoting energy efficiency and clean energy practices.
- 3. The Parties express their mutual agreement to work jointly for the achievement of common goals and objectives related to enhancing pool of local experts on aspects related to energy management practices for textile industries by conducting short term capacity building courses for their graduating students of relevant domains.

P. H.

- 4. Government College of Technology, Coimbatore, by virtue of its credentials, degree courses and program being offered and networking etc. in this field may support SCI in the, but not limited to, in the following areas as deemed fit;
 - a. Conduct short terms courses for its graduating students from different courses every year for enhancing their technical skills on aspects related to energy management practices in textile industries.
 - b. Conduct pre and post test for the participating students to ensure learning from the capacity building programs.
 - c. Document the proceedings of the program in the form of brief impact report as per the template provided by SCI and share with SCI.
 - d. Prepare data base of participants attended the training program and provide certificates to participants as per the template provided by SCI
 - e. Nominate 3-4 faculty members from relevant domains for the Training of Trainer (ToT) program to be organized by SCI.
 - f. Promote networking with local industry associations and industries to explore internship opportunities for their students
 - g. Support any other activity related to capacity building on energy management in the cluster as mutually discussed and agreed upon.
- 5. SCI, as a part of their project specific agenda, may provide all necessary support as follow for smooth uptake of all suggested activities
 - a. Provide training module, relevant assessment documents and templates on training and capacity building activities for students in the cluster
 - b. Provide Standard Operating Procedure (SoP) document to academic institution which includes step-wise procedure for conducting these short-term training program including the required documentation templates
 - c. Conduct Training of trainer (ToT) programs for the selected faculty members on aspects related to energy management to enhance their skills for conducting such training programs in future
 - d. Provide technical support related to curriculum update from time to time
 - e. Any other assistance as mutually discussed and agreed upon

'I'HEREFORE, the Parties intend to work together and collaborate in compliance with the following clauses:

- 1. The Parties agree to discuss and finalize collaboration opportunities (immediate and in long-term) with respect to SCI's mandate and <Name of the association>expertise and experience in implementation of energy management related programs
- 2. Notwithstanding the use of the terms "Partners" and "Partnership", the Partiesagree that they are not entering into a Legal Partnership, joint venture or othersuch business arrangement. The parties shall be free to work independently withother organizations.
- 3. This MoU is valid for a period of two (02) years from the Effective Date and can be extended by mutual consent.
- 4. If at any time one Party is unable or unwilling to continue with the MoU, then the concerned Party agrees to notify the other promptly and on completion of one (01)month after such



X

notification, this MoU will be terminated, without any claim orliability arising under the MOU.

5. Branding

a) License for use of Logo.

Government College of Technology, Coimbatore and ISC agree to grant each other a non-transferable, non-exclusive license, for the term of this Agreement and on and within their website (Site) or Co-Branded website (collectively "Sites"): (i) to copy, use, publicly display and transmit their logo in connection with performance of this Agreement; and (ii) to establish a Link to other party's Sites.

b) Marks.

Without conveying any right, title or interest, Owner and Provider hereby agree that either party may make accurate informational references to the other party's trade names, trademarks or service marks (collectively "Marks") in connection with performance of this Agreement, including without limitation, references in promotional materials, media-releases, notices and advertisements for their Sites, subject to the condition that either party shall promptly cease any use of any Mark owned by the other party upon: (i) termination or expiration of this Agreement for any reason; or (ii) receipt of notice from the other party of abandonment of or dispute relating to any such Mark (except that neither party shall be required to alter any materials first published prior to the date of receipt of such notice). In the event that either party makes references to the other party's Marks that are inaccurate or otherwise incorrect, then the owner thereof may notify the other party of the necessary correction(s), and the party receiving such notice shall implement such corrections as soon as reasonably practicable.

- 6. Parties agree that, any modification or amendment to this MOU shall be valid only, if executed by a written document duly signed by authorized representative of the Parties.
- 7. The Parties shall endeavour to resolve any dispute, claim or controversy that may arise out of or in connection with this MoU or the application, implementation, validity, breach or termination thereof through friendly consultations between them. Any dispute, which could not be resolved amicably, shall be settled as per the provisions of Arbitration & Conciliation Act of India, 1996 and venue of Arbitration shall be Tirupur.
- 8. The MoU shall be subject to laws of India.

IN WITNESS WHEREOF, the Parties have executed this MoU and caused it to be effective as of the day, month and year first written above.

Principal
Government College of Technology
College of Technology,
College of Technology,

For and on behalf of Sustainable Communities India Pvt. Ltd.

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WITNESS:

DY. V. PRASANNA MODERTY

PROFESSOR/EEE (LAS)

GCT, GIMBATORE-13

28/08/202